



NORTH AMERICAN ORNITHOLOGICAL CONFERENCE

“Flight paths addressing global challenges”

Virtual Conference
August 10-15, 2020
naocbirds.org
#NAOC2020

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Program design by Mary Whalen, Colleen Handel, and Allison Shultz



HOST AND PARTNERING SOCIETIES



American Ornithological Society



Association of Field Ornithologists



Society of Canadian Ornithologists
Société des ornithologistes du Canada

**Society of Canadian Ornithologists/
Société des Ornithologistes du Canada**



Wilson Ornithological Society



Birds Caribbean



CIPAMEX



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**para la
Naturaleza**

Para la Naturaleza



The Waterbird Society



Welcome to the seventh North American Ornithological Conference (NAOC VII)! The theme is “Flight paths addressing global challenges,” which combines the interests of those studying the science of ornithology with those interested in conservation, increasingly interdependent and critical endeavors in a global-change world. Only through the integration of new knowledge with its applications, and the involvement of human stakeholders throughout the Western Hemisphere and beyond, can we address the challenge of protecting our indispensable biological inheritance.

In this pioneering virtual ornithological gathering, which has attracted over 2,300 attendees, you will have access to the most current research on topics ranging from bird behavior and social systems to physiology, populations, conservation, and evolution. You will find opportunities to learn and to share this knowledge through a wide variety of presentation styles: oral presentations, posters, lightning talks, roundtables, symposia, and workshops. We have also planned a broad array of networking events to connect with your colleagues from around the world and explore the latest tools and supplies, publishing opportunities, and conservation initiatives offered by our many exhibitors and sponsors. Multiple activities also reflect our commitment to increase the diversity and inclusivity of Ornithology.

We have designed the daily program of this virtual conference to accommodate the many time zones across the Americas. Be sure to note that the starting times listed in the program are in Eastern (US) Daylight Savings Time (–4 GMT). Each day is anchored by a plenary session at ‘midday,’ with ‘morning’ and ‘afternoon’ concurrent scientific sessions and ‘evenings’ filled with lively poster sessions and stimulating networking events. Remember that almost all sessions will be recorded and completely available to registered attendees for 30 days post-conference. Thus, you will be available to view, at your leisure, anything you missed during the live events. We hope you enjoy the many special opportunities to meet new people, catch up with colleagues, and share common interests in ornithology in the many scientific and social events each day. We also hope you will provide us invaluable feedback via a post-conference questionnaire.

Jameson F. Chace, Ph.D., and Thomas W. Sherry, Ph.D.

Co-chairs, NAOC 2020 Steering Committee

This meeting is co-hosted by the [American Ornithological Society](#), [Association of Field Ornithologists](#), [Society of Canadian Ornithologists/Société des Ornithologistes du Canada](#), and [Wilson Ornithological Society](#) in partnership with [Birds Caribbean](#), [CIPAMEX](#), [Neotropical Ornithological Society](#), [Para la Naturaleza](#), and the [Waterbird Society](#)..



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Media Features: Diversity and Inclusion at NAOC 2020

Organizers: Irene Liu and the Diversity & Inclusion Committee

Daily: Plenary and Scientific Sessions

Recent (and persistent) reminders of racism in our world, as well as #BlackBirdersWeek, make clear the need to challenge assumptions about who can be an ornithologist, while sending a message of belonging to people from underrepresented communities. The NAOC Diversity and Inclusion Committee is highlighting the contributions of Black, Latin-American, Hispanic/Latino/Latinx, and Indigenous ornithologists in two ways. First, each scientific session will start with photos of ornithologists from these communities, along with descriptions of what they do for their work. Second, the keynote and plenaries each day will be followed by short videos of ornithologists sharing the story of themselves as scientists. Our hope is that these media pieces will elevate the essential contributions and voices of these communities and motivate viewers to continue building an equitable and inclusive ornithological community.

Los acontecimientos recientes (y persistentes) de actos racistas en nuestro mundo, así como #BlackBirdersWeek, dejan en evidencia la necesidad de desafiar los prejuicios sobre quién puede ser ornitólogo, mientras es transmitido un mensaje de pertenencia a personas de comunidades poco representadas. El Comité de Diversidad e Inclusión del NAOC desea destacar las contribuciones de los ornitólogos negros/afrodescendientes, latinoamericanos, hispanos/latinos/latinxs e indígenas de dos maneras. Primero, cada sesión científica comenzará con fotos de ornitólogos que voluntariamente representan estas comunidades, junto con descripciones de lo que hacen en sus labores de trabajo. En segundo lugar, después de la bienvenida y las plenarios cada día, compartiremos videos cortos de ornitólogos que relatan su historia como científicos. Nuestra esperanza es que estas piezas visuales de comunicación pública eleven las contribuciones y las voces esenciales de estas comunidades, y motiven a los espectadores a continuar construyendo una comunidad ornitológica equitativa e inclusiva.

Eventos recentes (e persistentes) de atos racistas em nosso mundo, assim como #BlackBirdersWeek, tornam evidente a necessidade de desafiar preconceitos sobre quem pode ser um ornitólogo, enquanto transmite uma mensagem de pertencimento a pessoas de comunidades sub-representadas. O Comitê de Diversidade e Inclusão do NAOC está destacando as contribuições dos ornitólogos negros/afrodescendentes, latino-americanos, hispânicos/latinos/latinxs e indígenas de duas maneiras. Primeiro, cada sessão científica começará com fotos de ornitólogos dessas comunidades, juntamente com descrições do que eles fazem por seu trabalho. Segundo, a palestra e as plenárias de cada dia serão seguidas por pequenos vídeos de ornitólogos que compartilham a história de si mesmos como cientistas. Nossa esperança é que essas peças da mídia elevem as contribuições e vozes essenciais dessas comunidades e motivem os espectadores a continuarem construindo uma comunidade ornitológica justa e inclusiva.

Les événements récents (et persistants) d'actes racistes dans notre monde, ainsi que la #BlackBirdersWeek, mettent en évidence la nécessité de remettre en question les préjugés sur les personnes qui peuvent être ornithologues, tout en transmettant un message d'appartenance aux personnes issues de communautés sous-représentées. Le comité de diversité et d'inclusion de la NAOC veut mettre l'accent sur les contributions des ornithologues noirs/afro-descendants, hispaniques/latino-américains et indigènes de deux façons. En premier lieu, le début de chaque session scientifique sera accompagné d'une présentation des photos des ornithologues de ces communautés avec les descriptions de leurs boulots. En deuxième place, après les séances plénières nous partagerons chaque jour des courtes vidéos où les ornithologues nous partagent leurs histoires scientifiques. Nous espérons que ces pièces vont mettre en valeur les contributions essentielles et les voix de ces communautés et motiver les spectateurs à construire une communauté d'ornithologie plus équitable et inclusive.



ORGANIZERS AND COMMITTEES

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Ancilleno Davis
Auriel Fournier
Julio Gallardo
Dan Gibson
Emma Grieg
Daniel Hanley
Kara Lefevre
Brian Trevelline
Jennifer Walsh-Edmond
Abby Walter
Emily Williams

Diversity Videos

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Tom Swartwout
Andrea García
Valeska Borja
Francisco Vásquez
Karen Lau
Lilibeth Palacio Gómez
Osvel Hinojosa Huerta

Trivia Quiz

Jameson Chace
Mint Jang

Thank you to all the judges of student presentations

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In Memoriam

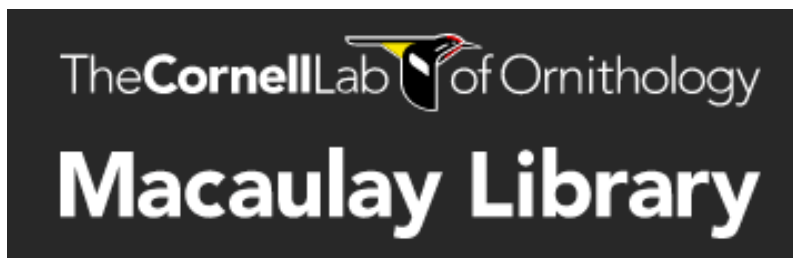
Irene Liu
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Chris Mulvaney
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Fun Run

Dan Ruthrauff



We thank the Macaulay Library of The Cornell Lab of Ornithology for providing the following bird sounds to use as timers in speaker presentations:

Adelaide's Warbler: Jay McGowan / Macaulay Library at the Cornell Lab (ML532898)

Puerto Rican Screech-Owl: Michael Andersen / Macaulay Library at the Cornell Lab (ML535510)

Puerto Rican Bullfinch : Jay McGowan / Macaulay Library at the Cornell Lab (ML533570)



GENERAL INFORMATION

HOW TO ACCESS THE VIRTUAL MEETING THROUGH THE ONLINE PLANNER

To access the meeting, view the schedule, and view talks, access the EventPilot Online Planner. If you are on a computer, you can access the planner by clicking the [this link](#). Please note, Chrome is the recommended browser for viewing the Online Planner. To access the schedule on a mobile device or tablet, you need to download the EventPilot Virtual Event App from the App Store. *Note, the EventPilot Conference App will not work on a mobile device; be sure to download the Virtual Event App. Once the app is downloaded to your mobile device, use the code "AOS20" to access NAOC VII. Note that anyone can view the conference program, but in order to view live sessions, listen to recordings, or build a personal schedule, you will need to log into the planner/app with your username and password. Instructions on how to use the app can be found under the 'More' tab within the app.

Remember: All times in this printed program and in the Online Planner are displayed in Eastern (US) Daylight Time (-4 GMT).

HELP DESK

Have a question? Fill out our [Virtual Help Desk form](#) and a member of our team will be with you shortly. Alternatively, post to the #a_techhelp channel on Slack!

PRESENTATION-READY ROOM

Want to test Zoom or practice screen sharing? Sign up for a slot in our presentation ready room [here](#). These help sessions will be available Thursday (6 Aug), Friday (7 Aug), Monday (10 Aug), Tuesday (11 Aug) and Wednesday (12 Aug).

TALK AND POSTER INSTRUCTIONS

Please see our [Virtual Resources](#) page with presenter guides for each presentation type.

MEETING CODE OF CONDUCT

The NAOC 2020 Code of Conduct sets clear expectations for participant behavior at the meeting to ensure that all meeting participants feel safe and welcome, and to facilitate a positive experience for all. Please visit the NAOC 2020 website and review the [Meeting Code of Conduct](#) to help us all have a wonderful conference.

SOCIAL MEDIA POLICY

NAOC 2020 is a pro-social media event and NAOC organizers actively encourage the sharing of conference content. Sharing ornithological science with the public via social media is one way to educate the public, which can only increase support for science and its application. Please visit the NAOC website to learn more about the [NAOC social media policy](#).

SLACK CHANNEL

Connect with fellow NAOC meeting attendees through our NAOC Slack channel! Slack offers a way for members of the NAOC community to communicate with each other outside of email or social media, either via direct messages or topic-driven threads. You can also use this platform to view announcements or ask for help with technological issues. New to Slack? Check out our guide on the Virtual Resources page. You can join the Slack channel by clicking [this link](#)!

EXHIBITORS

Visit our generous sponsors and exhibitors who helped make this conference possible! Each has a designated page inside the Online Planner (under 'Exhibitors' tab) where you can find links to their websites and useful information on the latest tools and supplies, publishing opportunities, and conservation initiatives they have to offer.



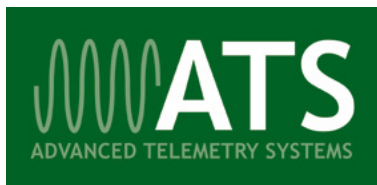
DIVERSITY STATEMENT

The North American Ornithological Conference (NAOC) welcomes and warmly encourages participation in our meetings by all individuals regardless of gender identity and/or expression, race, ethnicity, nation of origin, citizenship status, religion, age, marital status, sexual orientation, disabilities, or any other protected status. We are committed to providing a safe, open, and bias-free environment, and to achieving and maintaining diversity in meetings, membership, leadership, volunteers, and staff, and to promoting equality of opportunity and treatment for all. We embrace diversity for its power to develop new ideas, and to foster a productive environment through the introduction of different backgrounds, perspectives, and experiences. In representing the field of ornithology, we strive to lead by example as advocates for equality, diversity, and inclusion.

La Conferencia Ornitológica Norteamericana (NAOC) da la bienvenida y alienta la participación en nuestras reuniones de todas las personas, independientemente de su identidad y/o expresión de género, raza, etnia, nación de origen, condición de ciudadanía, religión, edad, estado civil, orientación sexual, discapacidades o cualquier otra condición protegida. Estamos comprometidos a proporcionar un ambiente seguro, abierto y libre de prejuicios, y a lograr y mantener la diversidad en las reuniones, entre nuestros miembros, en nuestro liderazgo, en los voluntarios y el personal, y a promover la igualdad de oportunidades y de trato para todos. Aceptamos la diversidad por su poder para desarrollar nuevas ideas, y para fomentar un ambiente productivo a través de la incorporación de diferentes antecedentes, perspectivas y experiencias. Al representar el campo de la ornitología, nos esforzamos por predicar con el ejemplo como defensores de la igualdad, la diversidad y la inclusión.



The USGS Ecosystems Mission Area, the biological research arm of the Department of the Interior (DOI), provides science to help America achieve sustainable management and conservation of its biological resources. *Photo by Kristine Sowl, US Fish and Wildlife Service*



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NOTE: All times in the program are displayed in Eastern (US) Daylight Time (GMT -4).

Monday, August 10	
Workshops	12:00–4:30 pm
Tuesday, August 11	
NAOC 101	10:00–10:30 am
Invited Speaker: Jamila Blake	10:30–11:30 am
Opening remarks and Keynote Speaker: Thomas Lovejoy	12:00–1:30 pm
Symposia and general paper sessions	2:00–3:30 pm
Round tables and networking events	4:00–5:00 pm
Opening Reception	5:30–7:30 pm
Wednesday, August 12	
Symposia, lightning talks, and general paper sessions	10:00–11:30 am
Plenary Speaker: Bette Loiselle	12:00–1:30 pm
Symposia, lightning talks, and general paper sessions	2:00–3:30 pm
Round tables and networking events	4:00–5:00 pm
Poster sessions	5:30–7:00 pm
Thursday, August 13	
Symposia, lightning talks, and general paper sessions	10:00–11:30 am
Plenary Speaker: Juliana Machado Ferreira	12:00–1:30 pm
Symposia and general paper sessions	2:00–3:30 pm
Round tables and networking events	4:00–5:00 pm
Poster sessions	5:30–7:00 pm
Friday, August 14	
Symposia, lightning talks, and general paper sessions	10:00–11:30 am
Plenary Speaker: Daniel Cadena	12:00–1:30 pm
Symposia and general paper sessions	2:00–3:30 pm
Round tables and networking events	4:00–5:00 pm
Saturday, August 15	
Symposia, lightning talks, and general paper sessions	10:00–11:30 am
Plenary Speakers: Jennifer Walsh, Nicholas Mason, Sara Kaiser	12:00–1:30 pm
Symposia, early professional mini-talks, and general paper sessions	2:00–3:30 pm
Closing remarks and student presentation awards	4:00–4:30 pm
Invited Speaker: Tykee James	4:30–5:30 pm
Closing events	6:00–7:30 pm



TIME ZONES

TIME ZONE (WEST TO EAST) Start time of 30-min block					
ZONA HORARIA (OESTE A ESTE) Hora de inicio del bloque de 30 minutos					
Alaska Daylight Time	Pacific Daylight Time	Mountain Daylight Time	Central Daylight Time	Eastern Daylight Time	Atlantic Daylight Time
6:00	7:00	8:00	9:00	10:00	11:00
6:30	7:30	8:30	9:30	10:30	11:30
7:00	8:00	9:00	10:00	11:00	12:00
7:30	8:30	9:30	10:30	11:30	12:30
8:00	9:00	10:00	11:00	12:00	13:00
8:30	9:30	10:30	11:30	12:30	13:30
9:00	10:00	11:00	12:00	13:00	14:00
9:30	10:30	11:30	12:30	13:30	14:30
10:00	11:00	12:00	13:00	14:00	15:00
10:30	11:30	12:30	13:30	14:30	15:30
11:00	12:00	13:00	14:00	15:00	16:00
11:30	12:30	13:30	14:30	15:30	16:30
12:00	13:00	14:00	15:00	16:00	17:00
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14:00	15:00	16:00	17:00	18:00	19:00
14:30	15:30	16:30	17:30	18:30	19:30
15:00	16:00	17:00	18:00	19:00	20:00

<https://www.timeanddate.com/time/map/>



GENERAL SCHEDULE					
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	NAOC 101	Paper Session	Paper Session	Paper Session	Paper Session
	INVITED SPEAKER				
Workshops	WELCOME KEYNOTE	PLENARY	PLENARY	PLENARY	PLENARY
Workshops	Paper Session	Paper Session	Paper Session	Paper Session	Paper Session
	Round Table/ Networking	Round Table/ Networking	Round Table/ Networking	Round Table/ Networking	Closing Events
					INVITED SPEAKER
	Opening Events	Poster Session	Poster Session		Closing Events



CIPAMEX

Sociedad para el Estudio y Conservación de las Aves en México A. C.
Society for Mexican Bird Study and Conservation

Officers 2018-2021

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CIPAMEX publishes a scientific, open access journal (Huitzil, Mexican Journal of Ornithology), organizes a conference (CECAM – Congreso para el Estudio y Conservación de las Aves en México – Conference for Mexican Bird Study and Conservation) each year, and holds webinars regularly.

The next conference will take place in early October 2021 in the city of Pachuca (45 min from Mexico City) which offers wonderful bird watching and cultural gathering opportunities. Everyone is welcome! As the conference date approaches, further announcements will be made.

The following are our main communications resources:

Web page: www.cipamex.org

Facebook, Cipamex AC: <https://www.facebook.com/CIPAMEXAC/>

email: cipamexac@gmail.com

Huitzil, Mexican Journal of Ornithology: <http://ojs.huitzil.net/index.php/huitzil>



We raise awareness, promote sound science, and empower local partners to build a region where people appreciate, conserve and benefit from thriving bird populations and ecosystems.

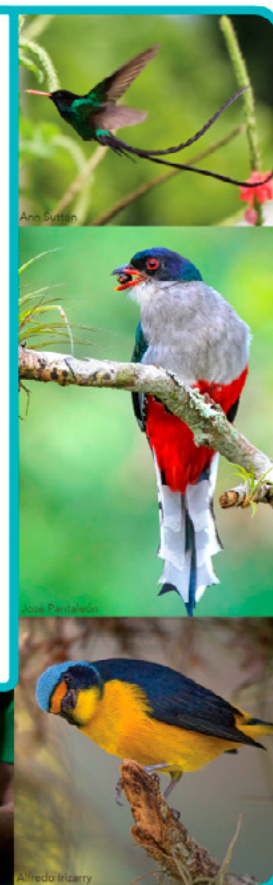
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NOTE: All times in the program are displayed in Eastern (US) Daylight Time (GMT -4).

Monday, August 10

- 10:00 am–5:00 pm **AOS Council Meeting [Invitation only]**
- 11:00 am–4:00 pm **SCO/SOC Council Meeting [Invitation only]**
- 12:00–4:00 pm **AFO Council Meeting [Invitation only]**
- 12:00–2:00 pm **Workshop [Preregistered only]:** Working with data collected by citizen scientists – challenges and opportunities for ornithologists *Judit Szabo*
- 12:00–4:30 pm **Workshop [Preregistered only]:** Introduction to analyzing count data in R with ‘unmarked’ *Evan Adams and Beth Ross*
- 2:30–4:30 pm **Workshop [Preregistered only]:** eBird Status and Trends *Tom Auer*
- 2:30–4:00 pm **Workshop [Preregistered only]:** Promoting diversity & inclusion in ornithology: Mini discussions *Amelia-Juliette Demery, Jennifer Houtz, Jack Hruska, and Shailee Shah*

Tuesday, August 11

- 10:00–11:30 am **AOS Fellows Meeting [Invitation only]**
- 10:00–10:30 am **NAOC 101:** Orientation and ice-breaker session for first-time attendees. Learn effective networking strategies and learn how to take full advantage of what’s available at this conference! *Jennifer Smith and the Diversity & Inclusion Committee*
- 10:30–11:30 am **Invited Speaker: Jamila Blake**
Fostering inclusive mentorship in the conservation profession (Fomentando la asesoría inclusiva en los profesionales de la conservación)
- 12:00–1:20 pm **Opening remarks and Keynote Speaker: Thomas Lovejoy**
What lies behind “If you Save the birds you solve most of the big problems of the world” (Qué piensas de: “Si salvas a las aves, resolverías la mayoría de los grandes problemas del mundo”)
- 1:20–1:30 pm **Birds of the World announcement**
- 2:00–3:30 pm **Symposia and general paper sessions**
- 4:00–5:00 pm **Round Table:** 3 Billion Birds Lost – Now what? *Rebecca (Becky) Stewart, Ken Rosenberg, and Anna Lello-Smith*
- 4:00–5:00 pm **Round Table:** Heron conservation in the Americas *Michael (Clay) Green, John Brzorad, Dale Gawlik, and Andrew Kasner*
- 4:00–5:00 pm **Round Table:** Open science initiatives in the life sciences *Sarah Andrus, Scott Sillett, and Catherine Lindell*
- 4:00–5:00 pm **Student–Mentor Meetup [Preregistered only]**
- 5:30–7:30 pm **Meet Your Host Societies and Each Other!**



DETAILED AGENDA (CONTINUED)

NOTE: All times in the program are displayed in Eastern (US) Daylight Time (GMT -4).

Wednesday, August 12

- 10:00–11:30 am **Symposia, lightning talks, and general paper sessions**
- 12:00–1:10 pm **Plenary Speaker:** *Bette Loiselle*
Three decades of studying Neotropical birds: Lessons learned along the way
- 1:10–1:30 pm **Wilson Society Awards and Society of Canadian Ornithologists/Société des ornithologistes du Canada Awards**
- 2:00–3:30 pm **Symposia, lightning talks, and general paper sessions**
- 4:00–5:00 pm **Round Table:** Birds of the World: Contribute your expertise! *Paul G. Rodewald and Brooke Keeney*
- 4:00–5:00 pm **Round Table:** Professional Ethics Town Hall
- 4:00–5:00 pm **Networking:** Meet BirdsCaribbean *Andrew Dobson, Adrienne Tossas, Ancilleno Davis, Jennifer Wheeler, Justin Proctor, Lisa Sorenson, and Howard Nelson*
- 4:00–5:00 pm **Networking:** Meet the AOS Editors *Scott Sillett, Catherine Lindell, Mark Penrose, and Sarah Andrus*
- 4:00–5:00 pm **Student–Mentor Meetup [Preregistered only]**
- 5:30–7:00 pm **Poster sessions**

Thursday, August 13

- 10:00–11:30 am **Symposia, lightning talks, and general paper sessions**
- 12:00–1:10 pm **Plenary Speaker:** *Juliana Machado Ferreira*
Tainted Love – How the love of birds is driving some species to the brink
- 1:05–1:25 pm **American Ornithological Society Awards and Association of Field Ornithologists Awards**
- 1:25–1:30 pm **In Memoriam:** Honoring ornithologists
- 2:00–3:30 pm **Symposia and general paper sessions**
- 4:00–5:00 pm **Round Table:** Una perspectiva continental: What can the house wren tell us about environmental change? *Erin E. Grabarczyk and Luis Sandoval*
- 4:00–5:00 pm **Networking: LGBTQIA+ and Allies Social [Preregistered only]**
- 4:00–5:00 pm **Networking:** Bird Friendly Coffee Hour *Justine Bowe and Ruth Bennett, Smithsonian Migratory Bird Center*
- 4:00–5:00 pm **Student-Mentor Meetup [Preregistered only]**
- 5:30–7:00 pm **Poster sessions**



NOTE: All times in the program are displayed in Eastern (US) Daylight Time (GMT -4).

Friday, August 14

- | | |
|----------------|--|
| 10:00–11:30 am | Symposia, lightning talks, and general paper sessions |
| 12:00–1:10 pm | Plenary Speaker: <i>Daniel Cadena</i>
The origin and future of an avian biodiversity hotspot |
| 1:10–1:20 pm | Partners in Flight Awards |
| 1:20–1:30 pm | Sponsor recognition |
| 2:00–3:30 pm | Symposia and general paper sessions |
| 4:00–5:00 pm | Round Table: Smithsonian Migratory Bird Center and the Tri-national North American Bird Conservation Initiative (NABCI): What does “Bird Friendly” mean? <i>Ruth Bennett, Justin Bowe, Marshall Johnson, and Greg Butcher</i> |
| 4:00–5:00 pm | Round Table: Expanding the Motus Wildlife Tracking Network: Regional planning and technology updates <i>Lucas DeGroot, Lisa Kiziuk, Stewart McKenzie, and Matthew Webb</i> |
| 4:00–5:00 pm | Round Table: Applications of Unmanned Vehicle Systems (AKA drones) to the study and conservation of birds <i>David Bird, Dominique Chabot, and Ann McKellar</i> |
| 4:00–5:00 pm | AOS Editorial Board Meeting [Invitation only] <i>Catherine Lindell, Scott Sillett, and Mark Penrose</i> |
| 4:00–5:00 pm | Joint General Meeting of Association of Field Ornithologists and Wilson Ornithological Society |
| 4:00–5:00 pm | Society of Canadian Ornithologists/SCO General Meeting |
| 4:00–5:00 pm | Student–Mentor Meetup [Preregistered only] |

Saturday, August 15

- | | |
|----------------|--|
| 10:00–11:30 am | Symposia and general paper sessions |
| 10:00–11:30 am | Golden Auks: Best Paper I Ever Wrote–Lightning Talks |
| 12:00–1:30 pm | Early Professional Plenary Speaker: <i>Jennifer Walsh</i>
Lessons from sparrows: The extraordinary adaptive capacity of these little brown birds |
| | Early Professional Plenary Speaker: <i>Nick Mason</i>
Natural history collections as windows on avian ecology and evolution |
| | Early Professional Plenary Speaker: <i>Sara Kaiser</i>
Hidden complexity: Social and reproductive dynamics in temperate and tropical birds |
| 2:00–3:30 pm | Symposia and general paper sessions |
| 2:00–3:30 pm | Early Professional Mini-Talks |
| 4:00–4:30 pm | Closing remarks and student presentation awards |
| 4:30–5:30 pm | Invited Speaker: <i>Tykee James</i>
Inspiration for action: A sustainable way forward for ornithologists and birders in conservation |
| 6:00–7:30 pm | Closing Celebration: Storytelling Event, Mocking Manakin Bird Call Contest, Trivia Quiz |



eBirding Competition

This year's NAOC is our first virtual conference, which means that people will be participating from all over the hemisphere (and beyond). This is a great opportunity for all of us to share with each other some of the birds we have in our own backyards. To have some good fun with all of this, NAOC has organized an eBird competition for birding during the conference. You can find details on how to participate [here](#).

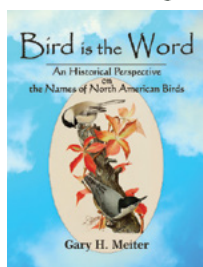
In brief, you just need to upload three eBird checklists during the conference to be entered into a drawing for some great prizes. You'll get entered into the drawing once for every checklist that you enter, and will be entered twice for every checklist that includes photos and/or audio recordings of the birds you see. For a checklist to qualify, it must be complete, and must have counts for all species (no X's). You can share your favorite checklists and media with other NAOC participants at the NAOC Slack channel #m_NAOC_ebird. Everybody that uploads three checklists will be entered into a raffle for fabulous prizes!

So no need to be an uber-birder, and no need to live in a place with many birds – everybody can participate, and anybody can win! And improve your chances of winning by collecting natural history media. Just go out birding, take some photos or audio recordings if you are able to, and share your checklists with NAOC2020. Have fun with it!

eBird



BOOKS ON BIRDS



McDonald & Woodward is publisher of numerous books on birds and other subjects of natural and cultural history. See all 80+ of our titles on our web site at mwpubco.com. Contact us at mwpubco@mwpubco.com or 740-641-2691 with questions.

Want to buy a copy or copies of any of our titles? Visit our web site and shopping cart and purchase ANY of our titles at a **special discount of 30%** for NAOC participants through September 30, 2020. Shop multiple times if you wish. **Your special access code is NAOC2020.**

Bird is the Word has been called “the new standard” for information on the naming and names of North American birds. See Jim McCormac’s review in the *Columbus* (Ohio) *Dispatch*, July 5, 2020.



NAOC Virtual Fun Run 2020

Need some inspiration to move? Eyes sore from too much Zooming? Get out and run! The All-out Ostrich Scramble has long been an annual tradition at AOS conferences. This relaxing activity has been a fun way to meet fellow runners, shake-off conference lethargy, and strengthen connections within the AOS community. Please consider supporting this year's NAOC by participating in a virtual fun run. As you might imagine, things will be different this year: no sign-ups, no ostrich egg prizes...but still a great opportunity to support the community.

To participate, conduct your run, as short or as long as you please, during the week of the conference. Then, just take a picture—of yourself, of your dog, of your favorite overlook, of whatever you want—and upload it to the #m_fun_run channel on the NAOC 2020 Slack group. We'll include your images during the conference as a way to help people from around the globe connect through shared loves of birding and running. Please also consider making a purchase of conference merchandise (<https://naocbirds.org/merchandise-2/>) as a way to endow the conference and support the Puerto Rico Ornithological Society. Your participation helps maintain this fun tradition while supporting the conference proceedings from afar. Go run!



Waterbirds is going virtual with meeting events beginning the week of November 9, 2020.

Meeting to include: keynote and scientific program, special events throughout the month, and concluding with the business meeting and awards ceremony on December 5th.

Registration & Call for Abstracts coming soon!

#WbSvirtual2020

Waterbirds 2021 will be held in November in Texas #WbSTexas2021

waterbirds.org | Twitter @WaterbirdSociet | IG the_waterbird_society | FB @waterbirdsociety



Merchandise

Please help support our students, early professional ornithologists, international research, and the conservation of birds at our [Bonfire campaign store](#).

We are raising funds to provide free or highly reduced registration rates for students from all over the world, early professional ornithologists, and professional colleagues from the Caribbean, Latin America, and other special countries. Some of the proceeds will also be donated to the [Puerto Rico Ornithological Society \(Sociedad Ornitológica Puertorriqueña\)](#), a non-profit organization focused on increasing the awareness of Puerto Rico's bird life and the conservation and sustainable management of their habitats. We support their efforts even if we cannot be there in person this year!



to wear—and while you are at it, consider an extra donation to support the study and conservation of birds! Designs are available with or without the crow, who proudly pronounces our resilience in sharing our science during these challenging times.



Please choose something fun—an avant-garde face mask, a practical, commemorative mug, or some snappy apparel

The Rainbow Lorikeets is an LGBTQIA+ caucus of the National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP) in partnership with the American Ornithological Society (AOS).



Our mission is to provide a safe and supportive environment for members of the LGBTQIA+ community within the American Ornithological Society and STEM at large. Since launching in 2019, we have been working hard to assist in the support, mentorship, and professional development of students and professionals who study birds. Being Queer in ornithology poses unique challenges to field researchers, lab technicians, and students in undergrad and graduate programs. We're here to help.

We are excited to be involved with multiple virtual projects, scholarships, and Pride celebrations in 2020. Just this year, we have aided NOGLSTP in developing a trans-centric award, helped facilitate the first Society for Integrative and Comparative Biology (SICB) LGBTQIA+ panel, assisted Skype A Scientist plan a virtual Pride month event, and forged domestic and international connections with other STEM and ornithological diversity

coalitions. And coming up this August at the virtual North American Ornithological Conference (NAOC), we will be hosting a round-table discussion on what it means to be an LGBTQIA+ ornithologist and how our personal identities impact us in the workplace. Please join us for this wonderful event!

Sales from these t-shirts will fuel our capacity to serve as representatives of the LGBTQIA+ community, provide financial resources for students and professionals, and create priceless opportunities for marginalized Queer people.

Rainbow Lorikeets tee: <https://www.bonfire.com/rainbow-lorikeets-tee/>

Rainbow Lorikeets mask: <https://www.bonfire.com/rainbow-lorikeets-mask/>

Follow us on Twitter! @RainbowLors

We hold 501(3)(c) status as an affiliate caucus of NOGLSTP and proceeds are tax-exempt.



Tuesday, August 11, 10:30 am ET

Jamila Blake, AWB®

Fostering Inclusive Mentorship in the Conservation Profession



Thoughtful mentorship is essential to cultivating an inclusive professional culture. With traditional mentoring dynamics, the onus is largely on the individual to identify a mentor and initiate a relationship. Unfortunately, underrepresented communities are faced with a disproportionate burden for representation and providing mentorship and outreach. How can we be more effective in both engaging in mentorship and developing mentoring programs? How do we provide support throughout professional careers? In this interactive session we will discuss ways to make mentoring in conservation more inclusive and effective in supporting and enhancing the profession. We will focus on how we can give back to the next generation, empower our peers, and contribute to your own growth, development, and passion for our profession.

Jamila Blake, AWB®, is the Professional Development Manager for The Wildlife Society (TWS), and has been on staff since 2017 when she started as a Wildlife Policy Intern. She received her B.S. in Wildlife Conservation and Ecology from the University of Delaware in 2016. Prior to joining TWS, Jamila worked with a variety of organizations, like American Bird Conservancy, the Florida Aquarium, Naturalists for the Rehabilitation of Snakes and Birds NGO in India, and the University of Delaware AGcelerate Enrichment Program. Jamila manages TWS' Diversity Initiatives, Wildlife Biologist Certification Program, Leadership Institute, and Awards. She works to develop mentorship programs within and outside of TWS, collaborates with members and partner organizations to cultivate diverse, equitable, and inclusive spaces for students and professionals, and engages in community outreach to promote learning and professional development.

La asesoría consiente es esencial para cultivar una cultura profesional inclusiva. Con la dinámica de una tutoría tradicional, la responsabilidad recae principalmente en el individuo para identificar a un mentor e iniciar una relación. Desafortunadamente, las comunidades subrepresentadas enfrentan una carga desproporcionada para la representación y la provisión de mentoría y divulgación. ¿Cómo podemos ser más efectivos tanto para participar en la tutoría como para desarrollar programas de tutoría? ¿Cómo brindamos apoyo a los estudiantes a lo largo de sus carreras profesionales? En esta sesión interactiva discutiremos formas de hacer que la tutoría en conservación sea más inclusiva y efectiva para apoyar y mejorar la profesión. Nos enfocaremos en cómo podemos retribuir a la próxima generación, capacitar a nuestros pares y contribuir a su propio crecimiento, desarrollo y pasión por nuestra profesión.

Jamila Blake, AWB®, es la Gerente de Desarrollo Profesional de "The Wildlife Society (TWS)", y ha sido parte del personal desde 2017 cuando comenzó como Pasante de Política de Vida Silvestre. Ella recibió su título de grado en Conservación de la Vida Silvestre y Ecología de la Universidad de Delaware en 2016. Antes de unirse a TWS, Jamila trabajó con una variedad de organizaciones, como "American Bird Conservancy", "The Florida Aquarium", "Naturalists for the Rehabilitation of Snakes and Birds ONG" en India y la Universidad de Programa de enriquecimiento acelerado de Delaware. Jamila gestiona las Iniciativas de Diversidad de TWS, el Programa de Certificación de Biólogos de Vida Silvestre, el Instituto de Liderazgo y los Premios. Trabaja para desarrollar programas de tutoría dentro y fuera de TWS, colabora con miembros y organizaciones asociadas para cultivar espacios diversos, equitativos e inclusivos para estudiantes y profesionales, y participa en actividades de divulgación comunitaria para promover el aprendizaje y el desarrollo profesional.



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*Darwin, the Galapagos, and
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Eden*
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Flights of Passage

*An Illustrated Natural History
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Tipling

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*How Scientific Names
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George B. Schaller

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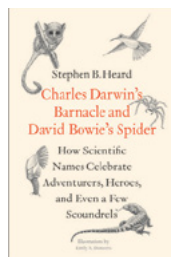
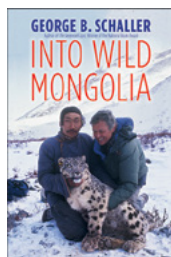
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*Living with Beetles,
Crabgrass, Fruit Flies, and
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David Western



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Tuesday, August 11, 12:00 pm ET

Thomas E. Lovejoy

What lies behind “If you Save the birds you solve most of the big problems of the world”



We are pleased to announce Thomas E. Lovejoy as the NAOC2020 Keynote Speaker and Honorary Chair of the conference. It is particularly fitting to welcome Tom's participation in this meeting considering his many contributions to tropical ecology and conservation. Tom is an innovative and accomplished conservation biologist who coined the term “biological diversity.” He was elected University Professor in the Department of Environmental Science and Policy at George Mason in 2010, and he is also a Senior Fellow at the United Nations Foundation. He served as President of the Heinz Center for Science, Economics, and the Environment from 2002 to 2008 and as its Biodiversity Chair from 2008 to 2013. Earlier, Lovejoy was the World Bank's Chief Biodiversity Advisor and Lead Specialist for Environment for Latin America and the Caribbean, as well as Senior Advisor to the President of the United Nations Foundation. Spanning the political spectrum, Lovejoy has served on science and environmental councils under the Reagan, Bush, and Clinton administrations.

At the core of these many influential positions are Lovejoy's seminal ideas, which have formed and strengthened the field of conservation biology. In the 1980s, he brought international attention to the world's tropical rainforests, in particular the Brazilian Amazon, where he has worked since 1965. He produced the first projection of global extinctions for the Global 2000 Report to the President. Lovejoy also developed the now-ubiquitous “debt-for-nature” swap programs. With three co-edited books, he is credited with founding the field of climate change biology. He also founded the popular long-term Nature series on public television. In 2001, Lovejoy was awarded the prestigious Tyler Prize for Environmental Achievement. In 2009, he was the winner of BBVA Foundation Frontiers of Knowledge Award in the Ecology and Conservation Biology Category. In 2009, he was appointed Conservation Fellow by the National Geographic Society. In 2012, he was recognized by the Blue Planet Prize. From 2008 to 2013, he chaired the Scientific and Technical Panel (STAP) for the Global Environment Facility (GEF), which provides funding to developing countries to meet their obligations for international environmental conventions, and since then has served as Senior Advisor to the Chair. He served as Science Envoy for the Department of State (2017/2018), and in 2019 he was appointed Explorer at Large by the National Geographic Society and Scientific Director of the Institute for a Sustainable Earth at George Mason University. Lovejoy holds B.S. and Ph.D degrees in biology from Yale University.

Many ornithologists will remember Lovejoy for his Ph.D. dissertation research on bird diversity and abundance in Amazon forest communities near Belém, Brazil, and as the leader soon thereafter of the Minimum Critical Size of Ecosystems project, now known as the Biological Dynamics of Forest Fragments Project, near Manaus, Brazil. This project was notable as an early ecological field experiment, designed to test the SLOSS (single large or several small reserves) debate, and has grown into one of the preeminent tropical ecological research programs. Tom was elected an American Ornithologists' Union (now American Ornithological Society) Fellow in 1979 and was the inaugural recipient of AOS's Ralph W. Schreiber Conservation Award in 2005.



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for the

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Tuesday, August 11, 12:00 pm ET

Thomas E. Lovejoy

Qué piensas de: “Si salvas a las aves, resolverías la mayoría de los grandes problemas del mundo”



Nos complace anunciar a Thomas E. Lovejoy como el orador principal y Presidente Honorario de NAOC2020. Es particularmente apropiado dar la bienvenida a la participación de Tom en esta conferencia, considerando sus muchas contribuciones a la ecología tropical y a la conservación. Tom es un biólogo de la conservación innovador y consumado que acuñó el término “diversidad biológica”. En 2010 fue elegido Profesor Universitario en el Departamento de Ciencias y Políticas Ambientales de la Universidad George Mason. Se desempeña como Senior Fellow en la Fundación de las Naciones Unidas. Se desempeñó como Presidente del Centro Heinz para la Ciencia, la Economía y el Medio Ambiente de 2002 a 2008 y fue Presidente de Biodiversidad de dicho Centro de 2008 a 2013. Antes de asumir este cargo, Lovejoy fue Asesor en Jefe de Biodiversidad del Banco Mundial y Especialista Principal en Medio Ambiente para América Latina y el Caribe, así como Asesor Senior del Presidente de la Fundación de las Naciones Unidas. Lovejoy ha servido en los consejos de ciencia y medio ambiente bajo las administraciones de Reagan, Bush y Clinton, abarcando el espectro político.

En el centro de estas muchas posiciones influyentes están las ideas trascendentales de Lovejoy, que han formado y fortalecido el campo de la biología de la conservación. En la década de 1980, llamó la atención internacional sobre las selvas tropicales del mundo, y en particular sobre la Amazonía brasileña, donde ha trabajado desde 1965. En 1980 produjo la primera proyección de extinciones globales para el Informe Global 2000 al Presidente. Lovejoy también desarrolló los ahora omnipresentes programas de canje de “deuda por naturaleza”. Con tres libros coeditados, se le atribuye la fundación del campo de la biología del cambio climático. También fundó la serie Nature, una popular serie de la televisión pública. En 2001, Lovejoy recibió el prestigioso Premio Tyler al Logro Ambiental. En 2009 fue galardonado con el Premio Fundación BBVA Fronteras del Conocimiento en la categoría Ecología y Biología de la Conservación. En 2009 fue nombrado Fellow en Conservación por la Sociedad National Geographic. En 2012 fue reconocido por el Premio Planeta Azul. Entre 2008 y 2013 presidió el Grupo Científico y Técnico (STAP) del Fondo para el Medio Ambiente Mundial (FMAM), que proporciona financiación a los países en desarrollo para que cumplan sus obligaciones relacionadas con las convenciones internacionales sobre el medio ambiente. A partir de 2013 se ha desempeñado como Asesor Senior de la Presidencia del STAP. Fue Enviado Científico del Departamento de Estado (2017/2018). En 2019 fue nombrado Explorador General por la Sociedad National Geographic y Director Científico del Instituto para una Tierra Sostenible de la Universidad George Mason. Lovejoy es licenciado y doctor en biología por la Universidad de Yale.

Muchos ornitólogos recordarán a Lovejoy por su tesis doctoral cerca de Belém, Brasil (1975, Diversidad y abundancia de aves en las comunidades de la selva amazónica, The Living Bird, Thirteenth Annual, Cornell Laboratory of Ornithology), y poco después por iniciar y dirigir el proyecto de Tamaño Mínimo Crítico de los Ecosistemas, ahora conocido como el Proyecto de Dinámica Biológica de Fragmentos Forestales, cerca de Manaus, Brasil. Este proyecto fue notable como un precoz experimento ecológico de campo, diseñado para probar el debate SLOSS (una sola gran reserva o varias reservas pequeñas), y ha crecido hasta convertirse en uno de los programas de investigación ecológica tropical preeminentes. Tom fue elegido miembro de la Unión Americana de Ornitólogos (ahora Sociedad Americana de Ornitología, AOS) en 1979, y fue el ganador inaugural del Premio de Conservación Ralph W. Schreiber de AOS en 2005.



PLENARY SPEAKER

Wednesday, August 12, 12:00 pm ET

Bette Loiselle

Three decades of studying Neotropical birds: Lessons learned along the way



Bette Loiselle holds a joint appointment as the Director of the Tropical Conservation and Development (TCD) Program in the Center for Latin American Studies and Professor in the Department of Wildlife Ecology and Conservation in the College of Agricultural and Life Sciences at the University of Florida (UF). She came to UF after serving as Director of the Division of Environmental Biology (DEB) at the National Science Foundation in 2010–2011 and as Program Officer in Evolutionary Processes in DEB from 2006–2008. Before joining UF, Dr. Loiselle was a Professor in Biology at the University of Missouri-St. Louis from 1990–2010. For the past 30+ years, she has focused her research on birds in tropical forests, where she has studied the population dynamics of birds, frugivory and seed dispersal, and the evolutionary ecology of lek-mating systems. For lek-breeding birds, she is particularly

interested in a comparative examination of how the spatial ecology of females influences mate choice decisions and male reproductive strategies. In seed dispersal studies, she focuses on untangling the ecological roles of seed dispersers and the importance of biodiversity to maintaining ecological function. In recent years, much of her field research has been conducted in the Ecuadorian Amazon, although other research sites have included the Atlantic forests of Brazil, the Colombian Andes, and the tropical wet forests of Australia. As Director of UF's TCD program, she is involved in a number of capacity-building and interdisciplinary research efforts, including studies examining how dams have transformed socio-ecological systems and a recent effort to develop a Pan-Amazon Community of Practice and learning focused on governance and infrastructure in the Amazon. Dr. Loiselle is a recipient of the Margaret Morse Nice Medal, bestowed by the Wilson Ornithological Society to honor a lifetime of contributions to ornithology, and received her Ph.D. in Zoology at the University of Wisconsin (1987) and Master's (1981) and Bachelor's (1979) degree at the University of Illinois.

Bette Loiselle es Directora del Programa de Conservación y Desarrollo Tropical (TCD) en el Centro de Estudios Latinoamericanos y Profesora del Departamento de Ecología y Conservación de la Vida Silvestre de la Facultad de Ciencias Agrícolas y de la Vida de la Universidad de Florida (UF). Llegó a la UF después de haber servido como Directora de la División de Biología Ambiental (DEB) en la Fundación Nacional de Ciencias en 2010–2011 y como Oficial del Programa en Procesos Evolutivos en DEB de 2006–2008. Antes de unirse a la UF, la Dra. Loiselle fue profesora de Biología en la Universidad de Missouri-St. Louis de 1990–2010. Durante los últimos 30 años, ha centrado su investigación en las aves de los bosques tropicales, donde ha estudiado la dinámica poblacional de las aves, la dispersión de las semillas y la frugivoría, y la ecología evolutiva de los sistemas de apareamiento tipo lek. En el caso de las aves que se reproducen en leks, está particularmente interesada en un examen comparativo de cómo la ecología espacial de las hembras influye en las decisiones de elección de pareja y en las estrategias reproductivas de los machos. En los estudios de dispersión de semillas, se centra en desentrañar las funciones ecológicas de los dispersores de semillas y la importancia de la biodiversidad para mantener la función ecológica. En los últimos años, gran parte de su investigación de campo se ha llevado a cabo en la Amazonía ecuatoriana, aunque otros sitios de investigación han incluido los bosques atlánticos de Brasil, los Andes colombianos y los bosques húmedos tropicales de Australia. Como Directora del programa TCD de la UF, está involucrada en una serie de esfuerzos de capacitación e investigación interdisciplinaria, incluyendo estudios que examinan cómo las represas han transformado los sistemas socio-ecológicos y un esfuerzo reciente para desarrollar una Comunidad Pan-Amazónica de Práctica y aprendizaje enfocado en la gobernabilidad e infraestructura en la Amazonía. La Dra. Loiselle obtuvo su doctorado en Zoología en la Universidad de Wisconsin (1987) y su maestría (1981) y licenciatura (1979) en la Universidad de Illinois.



Thursday, August 13, 12:00 pm ET

Juliana Machado Ferreira

Tainted Love – How the love of birds is driving some species to the brink



Juliana Machado Ferreira is founder and Executive Director of Freeland Brasil, the South American branch of the Freeland Foundation, an internationally respected counter wildlife and human trafficking organization. She is a Biologist with an M.Sc. and Ph.D. in Genetics, both from the University of Sao Paulo. Dr. Machado Ferreira collaborated with the U.S. Fish and Wildlife Service's Forensics Laboratory from 2005 to 2013, first as a volunteer and then as a visiting scientist, and she developed her Ph.D. dissertation in collaboration with the laboratory. A TED Fellow 2009 and TED Senior Fellow 2010–2012, Dr. Machado Ferreira was also a 2014 National Geographic Emerging Explorer and received the 2016 WINGS Courage Award from the organization WINGS WorldQuest. Freeland Brasil's mission is to conserve biodiversity by combating wildlife trafficking and the organization

works using a comprehensive approach that combines scientific research, education and awareness, and public policy based on three pillars: (1) education and Awareness to reduce demand for wildlife and parts and products; (2) scientific research and capacity building to support law enforcement; and (3) public policy and international articulation to institutionalize the combat against wildlife trafficking. Alongside governmental, nongovernmental, intergovernmental, national and international organizations, Freeland Brasil is helping to turn the table on wildlife trafficking in South America.

Juliana Machado Ferreira es fundadora y Directora Ejecutiva de Freeland Brasil, la rama sudamericana de la Fundación Freeland, una organización internacional muy respetada de lucha contra el tráfico de la vida silvestre y de personas. Bióloga con maestría y doctorado en Genética, ambos de la Universidad de Sao Paulo. La Dra. Machado Ferreira colaboró con el Laboratorio Forense del Servicio de Pesca y Vida Silvestre de Estados Unidos de 2005 a 2013, primero como voluntaria y luego como científica visitante, y desarrolló su tesis doctoral en colaboración con el laboratorio. La Dra. Machado Ferreira fue también una exploradora emergente de National Geographic en 2014 y recibió el premio WINGS Courage Award de la organización WINGS WorldQuest en 2016. La misión de Freeland Brasil es conservar la biodiversidad combatiendo el tráfico de vida silvestre y la organización trabaja con un enfoque integral que combina investigación científica, educación y concientización, y políticas públicas basadas en tres pilares: (1) educación y sensibilización para reducir la demanda de vida silvestre y sus partes y productos; (2) investigación científica y desarrollo de capacidades para apoyar la aplicación de la ley; y (3) políticas públicas y articulación internacional para institucionalizar la lucha contra el tráfico de vida silvestre. Junto con organizaciones gubernamentales, no gubernamentales, intergubernamentales, nacionales e internacionales, Freeland Brasil está ayudando a desarmar el tráfico de vida silvestre en Sudamérica.





PLENARY SPEAKER

Friday, August 12, 12:00 pm ET

Daniel Cadena

The origin and future of an avian biodiversity hotspot



Daniel Cadena obtained a B.Sc. degree in Biology at the Universidad de los Andes (Bogotá, Colombia) in 2000 and a Ph.D. in Biology at the University of Missouri–St. Louis in 2006. Since July 2006, he has been a faculty member in the Departamento de Ciencias Biológicas at the Universidad de los Andes, where he is currently a Full Professor and teaches courses on evolution, vertebrate biology, and ornithology. He has also served as coordinator of undergraduate studies, director of the graduate school, and department chair. Dr. Cadena leads a research group focused on the evolutionary biology of vertebrates and has advised numerous postdoctoral scholars, Ph.D. students, master's students, and undergraduates over the years, publishing close to 80 papers in peer-reviewed journals. His research focuses on the evolutionary biology of Neotropical birds, with

current projects in systematics and biogeography, speciation, and the ecology and evolution of migration. He is currently on the editorial board of Proceedings of the Royal Society of London Series B and served as main editor of Ornitología Colombiana for several years. Cadena received the Young Investigator Award from the The World Academy for the Advancement of Science in Developing Countries (TWAS) and was elected Corresponding Member of the Academia Colombiana de Ciencias Exactas, Físicas y Naturales (the National Academy of Sciences of Colombia). He is an AOS Fellow and has served the society in several capacities over the years, acting as associate editor of The Auk: Ornithological Advances, reviewing editor of The Condor: Ornithological Applications, member of the South American Classification Committee, and member of the committee in charge of nominations of Fellows and Elective Members

Daniel Cadena obtuvo su licenciatura en Biología en la Universidad de los Andes (Bogotá, Colombia) en el año 2000 y su doctorado en Biología en la Universidad de Missouri-St.Louis en el 2006. Desde julio de 2006 es docente del Departamento de Ciencias Biológicas de la Universidad de los Andes, donde actualmente es Profesor Titular y dicta cursos sobre evolución, biología de vertebrados y ornitología. También se ha desempeñado como coordinador de estudios de pregrado, director de la escuela de postgrado y jefe de departamento. El Dr. Cadena dirige un grupo de investigación centrado en la biología evolutiva de los vertebrados y ha asesorado a numerosos estudiosos postdoctorales, estudiantes de doctorado, estudiantes de maestría y estudiantes de pregrado a lo largo de los años, publicando cerca de 80 artículos en revistas científicas con arbitraje. Su investigación se centra en la biología evolutiva de las aves neotropicales, con proyectos actuales en sistemática y biogeografía, especiación, y ecología y evolución de la migración. Actualmente es miembro del consejo editorial de Proceedings of the Royal Society of London Series B y se desempeñó como editor principal de Ornitología Colombiana durante varios años. Cadena recibió el Premio Joven Investigador de la Academia Mundial para el Avance de la Ciencia en Países en Desarrollo (TWAS) y fue elegido Miembro Correspondiente de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales (la Academia Nacional de Ciencias de Colombia). Es miembro de AOS y ha servido a la sociedad en varias funciones a lo largo de los años, actuando como editor asociado de The Auk: Ornithological Advances, editor revisor de The Condor: Aplicaciones Ornitológicas, Miembro del Comité de Clasificación de América del Sur y miembro del comité encargado de la nominación de fellows y miembros electivos.



Saturday, August 15, 12:00 pm ET

Jennifer Walsh

Lessons from sparrows: The extraordinary adaptive capacity of these little brown birds



Jennifer Walsh is a postdoctoral associate at the Cornell Laboratory of Ornithology, where she utilizes genomic tools to address questions in avian ecology, evolution, and conservation. She has an excellent service record, and her accomplishments over the course of her early career indicate outstanding potential for leadership in ornithology. Dr. Walsh's leadership qualities are evident from her broad range of contributions and accomplishments that include research, teaching, and student mentorship. Since 2011, Dr. Walsh has studied demography, behavior, nesting, ecology, conservation, taxonomy, genomics, and hybridization in Saltmarsh and Nelson's sparrows, addressing nearly every aspect of their biology. More recently, Dr. Walsh expanded into an examination of the comparative genomics of four sparrow species that independently colonized salt marsh habitats, demonstrating evidence for parallel

evolution. Her research on divergence along saline-freshwater gradients has shed light on the role of ecological speciation in contributing to diversification among New World sparrows. In addition, Dr. Walsh has leveraged the resolution from genomic sequencing to characterize diversification across cryptic species and subspecies boundaries, most recently in populations of San Francisco Bay Song Sparrows. In recognition of her ornithological acumen and communication abilities, Dr. Walsh was invited to teach the flagship ornithology course at Cornell University in spring 2020. She has demonstrated a strong commitment to mentoring and to AOS service, and her colleagues and fellow committee members have noted her outstanding contributions to AOS committees, symposia, and workshops. Dr. Walsh is currently an active contributor to the AOS Early Professionals Committee and a co-chair of the Student Presentation and Travel Awards Committee, and she organized a workshop at the most recent AOS meeting on navigating ornithology as an early-career professional.

Jennifer Walsh es una investigadora postdoctoral en el Laboratorio de Ornitología de Cornell, donde utiliza herramientas genómicas para abordar cuestiones de ecología, evolución y conservación de las aves. Tiene un excelente historial de servicio y sus logros a lo largo de su carrera inicial indican un potencial sobresaliente para el liderazgo en la ornitología. Las cualidades de liderazgo de la Dra. Walsh son evidentes por su amplia gama de contribuciones y logros que incluyen la investigación, la enseñanza y la tutoría de estudiantes. Desde 2011, la Dra. Walsh ha estudiado la demografía, el comportamiento, la anidación, la ecología, la conservación, la taxonomía, la genómica y la hibridación en los gorriones de Saltmarsh y Nelson, abordando casi todos los aspectos de su biología. Más recientemente, la Dra. Walsh ha expandido sus investigaciones a la genómica comparada de cuatro especies de gorriones que colonizaron independientemente los hábitats de las marismas saladas, demostrando evidencia de una evolución paralela. Su investigación sobre la divergencia a lo largo de los gradientes de agua salada y dulce ha arrojado luz sobre el papel de la especiación ecológica para contribuir a la diversificación entre los gorriones del Nuevo Mundo. Además, la Dra. Walsh ha aprovechado la resolución de la secuenciación genómica para caracterizar la diversificación a través de los límites de especies y subespecies crípticas, más recientemente en las poblaciones de gorriones cantores de la Bahía de San Francisco. En reconocimiento a su agudeza ornitológica y su capacidad de comunicación, la Dra. Walsh fue invitada a impartir el curso insignia de ornitología en la Universidad de Cornell en la primavera de 2020. Ha demostrado un fuerte compromiso con la tutoría y el servicio de AOS, y sus colegas y compañeros de comité han destacado sus extraordinarias contribuciones a los comités, simposios y talleres de AOS. La Dra. Walsh es actualmente una activa colaboradora del Comité de Profesionales Recientes de AOS y una copresidenta del Comité de Presentación de Estudiantes y Premios de Viaje, y organizó un taller en la más reciente reunión de AOS sobre cómo navegar la disciplina de la ornitología como profesional reciente.



Saturday, August 15, 12:30 pm ET

Nicholas Mason

Natural history collections as windows on avian ecology and evolution



Nicholas Mason is currently a National Science Foundation Postdoctoral Research Fellow at UC Berkeley and the Museum of Vertebrate Zoology and will start at Louisiana State University and the Louisiana Museum of Natural Sciences as an Assistant Professor and Curator of Birds in August 2020. He has advanced ornithology through his extensive research, service, and teaching. His research centers on the ecological and evolutionary processes that underlie speciation, diversification, and the evolution of phenotypic diversity in birds. Furthermore, his research increasingly focuses on understanding anthropogenic impacts on bird populations. While Dr. Mason's research interests are broad and interdisciplinary, natural history collections offer a unifying and consistent theme, and he is dedicated to promoting their growth and welfare. He has published several

well-cited papers on vocal evolution in tanagers, systematics and taxonomy in various songbirds, and local adaptation in larks, among other topics. Dr. Mason's training includes a Ph.D. from Cornell University under Irby Lovette, a M.Sc. from San Diego State University under Kevin Burns, and a B.A. from Vassar College. In addition to his research contributions, Dr. Mason is one of the most active early professionals in the AOS community. He is the current chair of the AOS Early Professionals Committee, was the former chair of the AOS Student Affairs Committee, and currently serves on five additional AOS committees. In recognition of these contributions, he became an AOS Elective Member in 2017 and was awarded the Marion Jenkinson Service Award in 2018. Dr. Mason has also excelled as an instructor, winning awards for his innovation and performance as a teacher and mentor, and has published multiple papers on pedagogical methods focused on promoting underrepresented demographics in the life sciences.

Nicholas Mason es actualmente un investigador postdoctoral de la Fundación Nacional de Ciencias en UC Berkeley y el Museo de Zoología de Vertebrados y comenzará en la Universidad Estatal de Luisiana y el Museo de Ciencias Naturales de Luisiana como profesor asistente y curador de aves en agosto de 2020. Ha avanzado en la ornitología a través de su extensa investigación, servicio y enseñanza. Su investigación se centra en los procesos ecológicos y evolutivos que subyacen a la especiación, diversificación y evolución de la diversidad fenotípica de las aves. Además, su investigación se centra cada vez más en la comprensión de los impactos antropogénicos en las poblaciones de aves. Mientras que los intereses de investigación del Dr. Mason son amplios e interdisciplinarios, las colecciones de historia natural ofrecen un tema unificador y consistente, y está dedicado a promover su crecimiento y bienestar. Ha publicado varios documentos bien citados sobre la evolución vocal en las tógaras, la sistemática y la taxonomía en varias aves cantoras y la adaptación local en las alondras, entre otros temas. La formación del Dr. Mason incluye un doctorado de la Universidad de Cornell bajo la dirección de Irby Lovette, una maestría de la Universidad Estatal de San Diego bajo la dirección de Kevin Burns y una licenciatura del Vassar College. Además de sus contribuciones a la investigación, el Dr. Mason es uno de los profesionales recientes más activos en la comunidad de AOS. Es el actual presidente del Comité de Profesionales Recientes de AOS, el anterior presidente del Comité de Asuntos Estudiantiles de AOS, y actualmente participa en otros cinco comités de AOS. En reconocimiento a estas contribuciones, se convirtió en un Miembro Electo de AOS en 2017 y fue galardonado con el Premio al Servicio Marion Jenkinson en 2018. El Dr. Mason también se ha destacado como instructor, ganando premios por su innovación y su rendimiento como profesor y mentor, y ha publicado múltiples documentos sobre métodos pedagógicos centrados en la promoción de las demografías subrepresentadas en las ciencias de la vida.



Saturday, August 15, 12:55 pm ET

Sara Kaiser

Hidden complexity: Social and reproductive dynamics in temperate and tropical birds



Sara Kaiser joined the Cornell Lab of Ornithology in August 2019 as a Research Ecologist and Director of the Hubbard Brook Field Ornithology Program. She has demonstrated leadership in ornithology through wide-ranging contributions including ornithological research, student mentorship, field courses, and conservation in multiple research sectors. Dr. Kaiser's research focuses on an integrative understanding of how the environment shapes the evolution of complex social behavior, especially reproductive strategies and cooperation. Dr. Kaiser's work has advanced our understanding of the role of social behavior in population and evolutionary dynamics involving sexual selection, population differentiation, and adaptation to environmental change. Her research has included bird studies in North America, the Caribbean Islands, and Borneo, and comparisons of temperate

and tropical birds. Her training includes a Ph.D. from Cornell University with Michael Webster and Scott Sillett, a M.S. from Michigan State University with Catherine Lindell, and a B.S. from Iowa State University mentored by Carol Vleck. She conducted postdoctoral research at the Cornell Lab of Ornithology, the Smithsonian Migratory Bird Center, and the Smithsonian Center for Conservation Genomics with Robert Fleischer and Thomas Martin. Dr. Kaiser also taught field courses in New Zealand and worked on the front lines of bird conservation as a Project Manager on the California Channel Islands. She has invested extensively in service to AOS and leadership within the broader scientific community; she became an AOS Elective Councilor in 2019 and currently serves as co-chair of the Membership Committee, chaired the AOS Early Professionals Committee for three years, served on the AOS Membership and Membership Coordination Committees, and co-organized workshops, symposia, and social events with the Student Affairs Committee and Diversity and Inclusion committee.

Sara Kaiser se unió al Laboratorio de Ornitología de Cornell en agosto de 2019 como Ecóloga de Investigación y Directora del Programa de Ornitología de Campo de Hubbard Brook. Ha demostrado su liderazgo en la ornitología a través de amplias contribuciones que incluyen la investigación ornitológica, la tutoría de estudiantes, cursos de campo y la conservación en múltiples sectores de investigación. La investigación de la Dra. Kaiser se centra en una comprensión integral de cómo el medio ambiente modela la evolución del comportamiento social complejo, especialmente las estrategias reproductivas y la cooperación. El trabajo de la Dra. Kaiser ha avanzado nuestra comprensión del papel del comportamiento social en la dinámica poblacional y evolutiva que implica la selección sexual, la diferenciación poblacional y la adaptación al cambio ambiental. Su investigación ha incluido estudios de aves en América del Norte, las islas del Caribe y Borneo, y comparaciones de aves templadas y tropicales. Su formación incluye un doctorado de la Universidad de Cornell con Michael Webster y Scott Sillett, una maestría de la Universidad Estatal de Michigan con Catherine Lindell, y una licenciatura de la Universidad Estatal de Iowa con la tutoría de Carol Vleck. Realizó investigaciones postdoctorales en el Laboratorio de Ornitología de Cornell, el Centro de Aves Migratorias del Smithsonian y el Centro Smithsonian de Genómica de la Conservación con Robert Fleischer y Thomas Martin. La Dra. Kaiser también impartió cursos de campo en Nueva Zelanda y trabajó en la vanguardia de la conservación de las aves como Directora del proyecto en las Islas Canal de California. Ha dedicado gran parte de su tiempo al servicio en AOS y en el liderazgo dentro de la comunidad científica más amplia; se convirtió en Consejera Electa de AOS en 2019 y actualmente es copresidenta del Comité de Miembros, presidió el Comité de Profesionales Recientes de AOS durante tres años, participó en los Comités de Miembros y de Coordinación de Miembros de AOS, y coorganizó talleres, simposios y eventos sociales con el Comité de Asuntos Estudiantiles y el Comité de Diversidad e Inclusión.



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Saturday, August 15, 4:30 pm ET

Tykee James

Inspiration for action: A sustainable way forward for ornithologists and birders in conservation



Tykee James is the Government Affairs Coordinator for the National Audubon Society and sits on the boards of directors for the DC Audubon Society, Wyncote Audubon Society, Audubon Maryland-DC, and the Academy of Natural Sciences of Drexel University.

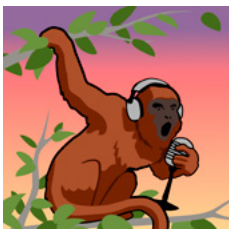
After moving to DC almost two years ago, he is grounded in his special role: organizing bird walks with members of Congress and congressional staff! Tykee has built residency in this work from experiences gained in his hometown of Philadelphia. His career started when he took a job as an environmental educator and community organizer. Tykee would go on to become an environment policy advisor for a State Representative and further develop his leadership abilities with the Environmental Leadership Program.

In his personal time he is the audio producer for Wildlife Observer Network, a wildlife media project he co-founded. Tykee hosts two podcasts: Brothers in Birding and On Word for Wildlife.

Tykee James es el Coordinador de Asuntos Gubernamentales de la Sociedad Nacional de Audubon y forma parte de las juntas directivas de la Sociedad DC de Audubon, Sociedad Wyncote de Audubon, Audubon Maryland-DC y la Academia de Ciencias Naturales de la Universidad de Drexel.

Después de mudarse a DC hace casi dos años, él se basa en su rol especial: ¡organizar caminatas con los miembros del Congreso y el personal del congreso! Tykee ha establecido su residencia en este trabajo a partir de las experiencias ganadas en su ciudad natal de Filadelfia. Su carrera comenzó cuando tomó un trabajo como educador ambiental y organizador comunitario. Tykee se convertiría en un asesor de políticas ambientales para un Representante del Estado y desarrollaría aún más sus habilidades con el Programa de Liderazgo Ambiental.

En su tiempo personal es el productor de audio del Wildlife Observer Network, un proyecto de vida silvestre que cofundó. Tykee es anfitrión de dos podcasts: Brothers in Birding and On Word for Wildlife.



Website: WildlifeObserverNetwork.com

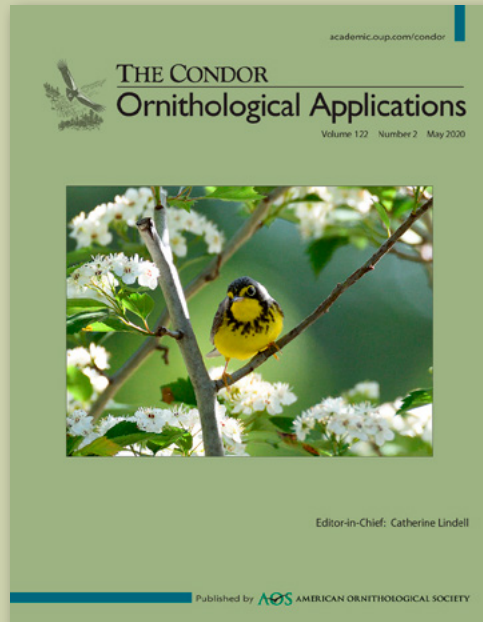
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AOS ANNUAL AWARDS: 2020 LIST OF AWARDEES



The **William Brewster Memorial Award** is given annually to the author or co-authors of the most meritorious body of work (book, monograph, or series of related papers) on birds of the Western Hemisphere published during the past ten years. Two awards conferred:

[Regina Macedo, University of Brasilia](#)

[John Rotenberry, University of Minnesota](#)

The **Elliott Coues Award** recognizes outstanding and innovative contributions to ornithological research, with no limitation with respect to geographic area, sub-discipline(s) of ornithology, or the time course over which the work was done. Two awards conferred:

[Andre Dhondt, Cornell University](#)

[Thomas Smith, University of California Los Angeles](#)

The **Ralph W. Schreiber Conservation Award** honors extraordinary conservation-related scientific contributions by an individual or small team working anywhere in the world and over any time course.

[Jaime Collazo, North Carolina State University](#)

The **Loye and Alden Miller Research Award** recognizes lifetime achievement in ornithological research.

[Erica Nol, Trent University](#)

The **Peter R. Stettenheim Service Award** recognizes an individual well established in their career who has performed outstanding and extensive service to AOS.

[Susan Haig, Oregon State University, USGS Senior Scientist Emeritus](#)

The **Marion Jenkinson Service Award** is given to an early- or mid-career ornithologist who has performed continued extensive service to the Society, including holding elected offices but emphasizing volunteer contributions and committee participation.

[Michael Butler, Lafayette College](#)

The **Ned K. Johnson Early Investigator Award** recognizes outstanding and promising work by researchers early in their career (4-7 years post terminal degree) in any field of ornithology. Two awards conferred:

[Sara Kaiser, Cornell Lab of Ornithology](#)

[Jennifer Walsh, Cornell Lab of Ornithology](#)

The **James G. Cooper Early Professional Award** recognizes early-career researchers (up to the end of their 3rd year post terminal degree) for their outstanding contributions in any field of ornithology.

[Nick Mason, Louisiana State University](#)

The **Brina C. Kessel Best Paper in The Auk Award** recognizes the most outstanding article by a single or multiple authors published in the journal over the preceding two-year period.

[Corey Tarwater, Ryan Germain, and Peter Arcese for their paper "Examination of context-dependent effects of natal traits on lifetime reproductive success using a long-term study of a temperate songbird," published in 2018. The Auk 135:609-621.](#)

The **Katma Publication Award** recognizes papers proposing ideas or testing theories that replace current dogma or settled opinion; that could change the course of thinking about the biology of birds; that propose a largely untested idea; or, that develop and advance it. The papers may be published in any scientific publication over the preceding two-year period.

[Mikus Abolins-Abols and Mark E. Hauber for their paper "Host defences against avian brood parasitism: an endocrine perspective," which appeared in the journal Proceedings of the Royal Society of London B in 2018. <https://doi.org/10.1098/rspb.2018.0980>](#)



PARTNERS IN FLIGHT AWARDS



Partners in Flight: Conserving Landbirds in the Americas, and the Partners in Flight Awards

The landbird mission of Partners in Flight (PIF) is keeping common birds common and helping species at risk through voluntary partnerships. Through the Partners in Flight Awards, PIF has been recognizing outstanding individuals and groups for their exceptional contributions to the field of landbird conservation since 1996. The seven 2019 PIF Awards are being presented at the NAOC VII in 2020, the 30th anniversary of Partners in Flight.

The PIF Award categories include Leadership, Investigations, Public Awareness, Stewardship, and David N. Pashley Lifetime Achievement. Briefly, these Individual or Group awards are for: 1) Leadership: demonstrates outstanding guidance and direction that contributes, or has contributed to, advancing PIF conservation efforts; 2) Investigations: conducts outstanding research and/or contributes scientific data and interpretations that improve our understanding of avian ecology, habitat management, or other scientific factors important to the PIF initiative; 3) Public Awareness: contributes significantly to increasing the public's awareness and appreciation for birds, their habitats, or the need for conservation; 4) Stewardship: contributes significantly to the management, conservation, or restoration of landbird habitat or priority species; or 5) David N. Pashley Lifetime Achievement: An individual who has made outstanding contributions, consistently over the entirety of his or her career of 15 or more years, to advancing PIF's mission, bird conservation efforts for PIF priority birds and habitats, and/or through PIF's various committees or working groups.

The 2019 Partners in Flight Award Recipients to be recognized at NAOC VII

Partners in Flight Leadership Award (Individual)

ANDREW COUTURIER, Canada, Senior Director, Landscape Science and Conservation with Birds Canada, has been selected to receive an Individual PIF Leadership Award. Andrew has been a major player for over two decades in bird conservation in Canada and North America. His strongest role, delivered primarily through partnership projects, has been to ensure and enable visualization of geo-spatial data in maps and other important products, and make science and conservation understandable to the public, the scientific community, government policy and decision-makers, and others. Andrew's behind-the-scenes contributions have included mapping for all the PIF planning documents, such as the pivotal Saving Our Shared Birds: Partners in Flight Tri-National Vision for Landbird Conservation.

YOLANDA LEÓN, Dominican Republic (Grupo Jaragua, Board President), has been selected to receive an Individual PIF Leadership Award for her groundbreaking work to conserve forest habitats for vulnerable migrant and resident birds and overall biodiversity in southwestern Dominican Republic, particularly in the forests of Sierra de Baboruco National Park. Through scientific investigation, advocacy, outreach to local communities, strategic planning, and on-the-ground conservation efforts, Yolanda has significantly contributed to the conservation of priority landbirds such as the Bicknell's Thrush and many other overwintering Neotropical migratory bird species which are found in this ecologically critical and highly vulnerable region.

DAVID MEHLMAN, United States, has been selected to receive an Individual PIF Leadership Award. David led The Nature Conservancy's Migratory Bird Program for over 15 years, for which he both provided planning, science and integration of PIF priorities to inform TNC's conservation efforts across the hemisphere, and managed projects in the U.S., Latin America and the Caribbean. His efforts included working with partners to protect grassland habitat in northern Mexico for priority species like the Baird's Sparrow, montane tropical oak forest in Colombia and Peru for the Cerulean Warbler, and habitat for Kirtland's Warbler in the Bahamas and Bicknell's Thrush in the Dominican Republic.

MARVIN TÓRREZ GUTIÉRREZ, Nicaragua, has been selected to receive an Individual PIF Leadership Award for his twenty years of dedication to the conservation of wild birds. From leading and training others at MoSI Program (Monitoreo de Sobrevivencia Invernal, Monitoring Overwintering Survival) banding stations to his position as Director Estación Biológica Juan Roberto Zarruk, Universidad Centroamericana, Marvin has been a leader and catalyst in promoting ornithology, ecology, and the conservation of biota and natural resources in Nicaragua and throughout Central America. He is also the Nicaraguan Biodiversity Monitoring National Coordinator, and is part of a team monitoring the endangered Golden-cheeked Warbler.



Partners in Flight Investigations Award (Individual)

SARAHY CONTRERAS, Mexico, a professor and researcher at the University of Guadalajara-CUCSUR, has been selected to receive an Individual PIF Investigations Award. Her work and accomplishments have spanned the past 25 years, and she was among the Mexican biologists who were involved in the early days of U.S./Mexico collaborations to study the non-breeding sites of migratory birds, as a student of Eduardo Santana's. The results of her projects have been applied to the conservation, management, and restoration of bird habitats in subtropical temperate mountain forests, especially for hummingbirds and passerines in western Mexico. She's a firm believer in the value of education and outreach, and a natural partner.

Partners in Flight Public Awareness Award (Group)

SET NET COMMUNICATIONS, Nicaragua (Adelayde Rivas Sotelo, Director), has been selected to receive a Group PIF Public Awareness Award for their effective use of communication and social outreach to help promote biodiversity and environmental conservation, training, and empowerment of less advantaged Hispanic woman. The efforts of Adelayde and her media company, including to support sustainable populations and wise stewardship of migratory birds, are far reaching throughout Central America and the Caribbean. In Nicaragua, Set Net Communications has provided media coverage for a U.S. Forest Service and local NGO long-term biodiversity study of migratory and resident birds.

Partners in Flight Stewardship Award (Group)

TERRA PENINSULAR, Mexico (Cesar Guerrero Ávila, Executive Director), has been selected to receive a Group PIF Stewardship Award. Terra Peninsular is a Mexican non-profit organization dedicated to protecting the ecosystems and landscapes of the Baja California Peninsula, as well as in Sonora and Sinaloa states, and is a key partner of the Sonoran Joint Venture. Through direct land protection, adaptive management and community engagement, Terra Peninsular has worked to protect the unique birds and habitats of the region, including for the endangered California Gnatcatcher, by working directly with local communities. It also leads the San Quintín Bird Festival, the largest bird festival in the Baja California Peninsula.





SCIENTIFIC PROGRAM

Tuesday, Afternoon Session

Room	1	2	3	4	5
Session (EST)	Symposium Island Treasures: Lessons Learned from 30 Years of Avian Research, Education, and Conservation	Symposium Urban Bird Conservation and Global Change: Celebrating 50 Years of Bird Research in, of, and for Cities	Symposium Scaling Up Patterns of Avian Phenological Change	Symposium What's on the Menu? Multiple Approaches to Studying Avian Diet	Abundance, Occupancy, Models, Methods
1400	Conserving Caribbean Birds in a Changing Landscape—Lessons Learned from Studies of Caribbean Endemic Birds <i>Nelson HP, Devenish-Nelson ES</i>	An Historical Perspective of Urban Bird Research: Going Back to Get to the Future <i>Lerman SB, Katti M, Warren PS</i>	Standing Genetic Variation in Clock Genes Underlie Phenology Patterns of American Kestrels <i>Heath JA, Bossu C, Simmonds SE, Ruegg KC</i>	What Did MacArthur (1958) Miss? New Insights into Diffuse Resource Competition Using Traditional Gut Content Analysis <i>Sherry TW, Kent C</i>	*Mist Net Height and Avian Monitoring: Ground-level Mist Nets Introduce Biases to Constant-effort Bird Banding Data <i>Tattoni DJ, LaBarbera K</i>
1415	A Holistic Approach to the Conservation of Critically Endangered Ridgway's Hawk (<i>Buteo ridgwayi</i>) in Dominican Republic <i>Curti MG, Hayes TI, Thorstrom R, Hayes C</i>	Adapters, Avoiders and Exploiters: How Three Terms Shaped Urban Bird Research <i>Blair RB</i>	Influences of Year-round Weather Events on the Breeding Phenology and Success of Migratory Alpine Horned Larks <i>de Zwaan DR, Drake A, Martin K</i>	Diet Variation in a Diverse Community of Wood Warblers Revealed by Meta-barcoding <i>Toews DP, Wood A, Welch A, Fleischer R, Dale A, Miller E</i>	Sensitivity Analysis for an Avian Reproductive Toxicology Model <i>Etterson MA, Galic N, Ruskin K, Thiel M</i>
1430	Engaging Local Stakeholders in Reversing the Decline of the Endangered White-breasted Thrasher by Reducing the Impacts of Invasive Species and Restoring Key Nesting Sites <i>Mortensen J, Dawson J, Barata I, Hunt S, Haynes P, Victor J, Charles A, Lesmond S</i>	Urban Ornithology: Moving from Pattern to Process <i>Rodewald AD</i>	Investigation into Phenology of Two Aerial Insectivorous Species and Their Potential Insect Prey in Yukon, Canada <i>Stehelin TE, Schmiegelow FK</i>	*Identifying Changes in Seaside Sparrow Diet Following Large-scale Disturbances Using Metabarcoding <i>Snider AM, Bonisoli Alquati A, Woltmann S, Stouffer PC, Taylor SS</i>	Modeling Species Interactions Using Spatial Capture Recapture <i>Gaya HE, Chandler RB</i>
1445	Conservation Strategies at the Human/Bird Interface in the Caribbean <i>Stadler T, Brown AC, Collier N, Jean A, Coffey J</i>	Comparative Ecology of City Birds: A Global Perspective <i>Lepczyk CA, La Sorte FA, Aronson MF</i>	From One to Many: Using Archived Banding Data to Scale Up Studies of Parulid Migration Phenology <i>Covino KM, Horton KG, Morris SR</i>	*Using Molecular Methodologies to Investigate Adult Provisioning Plasticity and Nestling Developmental Consequences Triggered by Limitations in Preferred Prey <i>Hoening BD, Trevelline BK, Latta SC, Porter BA</i>	Bird Diversity Loss at Very Large Spatial Scales in the Colombian Choco-Andes-Amazon <i>Socolar JB, Mills S, Gilroy J, Haugaasen T, Wilcove D, Edwards D</i>
1500	The Kirtland's Warbler Research and Training Project: Past and Present <i>Johnson SB, Ewert D</i>	What's Cookin' in the Urban Tropics? A View from Latin America <i>MacGregor-Fors I</i>	Phenology of Nocturnal Avian Migration Has Shifted at the Continental Scale <i>Horton KG, La Sorte FA, Sheldon D, Lin T, Winner K, Bernstein G, Maji S, Hochachka WM, Farnsworth A</i>	Nutritional Implications of Aquatic Prey in the Diet of a Riparian Songbird <i>Rogers SL, Verrelli BC, Lima S, Bukaveckas PA, Bulluck LP</i>	Black and Yellow Rail Habitat Associations in a Rapidly Disappearing Landscape <i>Johnson EI, Lehman J</i>
1515	The Status of Dominica's Parrot Conservation and Research Program and the Imperial Parrot Post-Maria <i>Durand S, Reillo PR</i>	Hotspots, Blind Spots, and Social Inequality: What Drives Spatial Patterns in Urban Bird Diversity? <i>Katti M, Perkins D, Caslin MW</i>	Spatial and Taxonomic Variation in Phenological Dynamics of North American Birds <i>Youngflesh C, Socolar J, Tingley M</i>	DISCUSSION	*An Integrated Population Model for Spatial Capture-recapture and Distance Sampling Data <i>Mohankumar NM, Hefley TJ, Silber K, Boyle WA</i>
BREAK					

* - indicates student presenters eligible for AOS presentation award.



6	7	8	9	10
Annual Cycle	Evolution	Genomics	Climate	Behavior
<p>*Homerange and Demographics of a Wintering Population of Chestnut-collared Longspurs</p> <p><i>Muller JA, Perera N, Ross JD</i></p>	<p>*Can You Hear Me Now? a Test of the Acoustic Adaptation Hypothesis in Seven Wren Species</p> <p><i>Hardt B, Benedict L</i></p>	<p>*The Patterns of Genomic Divergence in a Three-way Hybrid Zone of Flameback Woodpeckers in the Island of Sri Lanka</p> <p><i>Ranasinghe R, Seneviratne S, Irwin D</i></p>	<p>*A Drying Climate Bolsters Diversity but Reduces Demographic Rates for Utah's Riparian Birds</p> <p><i>Neate-Clegg MH, Horns JJ, Buchert M, Pope TL, Norvell R, Sekercioglu CH</i></p>	<p>Intra- and Interspecific Territoriality of the Collared Forest-Falcon in the Tropical Dry Forest of Western Mexico</p> <p><i>Domínguez-Pompa A, Martínez-Ruiz M, Renton K, Castillo-Gómez RA</i></p>
<p>Winter Survival of Baird's and Grasshopper Sparrows in Chihuahuan Desert Grasslands</p> <p><i>Strasser EH, RuvalcabaOrtega I, Martínez Guerrero J, Titulaer M, Canales del Castillo R, Latif QS, Panjabi AO, Correll MD, Pereda Solís M, Peña Peniche A, Sierra Franco D, Pérez Ordoñez DJ</i></p>	<p>*Mito-nuclear Incompatibilities Between <i>Rhegmatorhina hoffmannsi</i> and <i>berlepschi</i> Across an Amazonian River</p> <p><i>Del-Rio G, Rego M, Whitney B, Schunck F, Luis S, Faircloth B, Brumfield R</i></p>	<p>*Differentiated Regions of the Genome Shape Phenotypic Differences in the Northern Flicker</p> <p><i>Aguillon SM, Walsh J, Lovette IJ</i></p>	<p>*Agriculture is Adapting to Phenological Shifts Caused by Climate Change, but Grassland Songbirds Are Not</p> <p><i>McGowan MM, Perlut NG, Strong AM</i></p>	<p>Who Benefits the Most from a Social Party, Those Who Host it or the Guests?</p> <p><i>Mangini G, Gandoy FA, Areta JJ, Blendinger PG</i></p>
<p>A Full Annual Cycle Perspective for Analyzing Stopover Monitoring Data: Integrated Population Models for Arctic-breeding Shorebirds</p> <p><i>Tucker AM, McGowan CP, Lyons JE, DeRose-Wilson A, Clark NA</i></p>	<p>Oldest Modern Bird Fossil Clarifies the Earliest Stages of the Extant Bird Radiation</p> <p><i>Field DJ, Benito J, Chen A, Jagt JW, Ksepka DT</i></p>	<p>Mitochondrial Incompatibilities with the Sex Chromosomes Suggested in the Emergence of Reproductive Isolation Within an Avian Hybrid Zone</p> <p><i>Lopez KA, Lovette IJ, Hooper DM</i></p>	<p>Snowy Owl Irruption Patterns and the Potential Impact of Climate Change</p> <p><i>Coldren CL</i></p>	<p>Diet-induced Changes to Host Gut Microbiota is Linked to Foraging Innovation in a Wild Bird</p> <p><i>Davidson GL, Wiley N, Cooke AC, Johnson CN, Fouhy F, Reichert MS, de la Hera I, Crane JM, Kulahci IG, Ross R, Stanton C, Quinn JL</i></p>
	<p>*Applying Finite Element Analysis to Understand the Functional Anatomy of the Skull of an Ancient Bird</p> <p><i>Hanson M, Morris P, Bhullar BS, Bright JA</i></p>	<p>Genomic Evidence for the First Neotropical Ring Species</p> <p><i>Seeholzer GF, Hickerson MJ, Brumfield RT, Smith BT</i></p>	<p>Hot Take: Temperature Influences Flocking Propensity and Species Interactions in a Subtropical Mixed-species Flocking System</p> <p><i>Jones HH, Walters MJ, Robinson SK</i></p>	<p>*Effigies as Deterrents in the American Crow</p> <p><i>Prado-Ragan E, Mountjoy J</i></p>
<p>*Using Motus to Test for Breeding Season Carry-over Effects in a Long-distance Migrant</p> <p><i>Boyd BP, Hayes SM, Stutchbury BJ</i></p>	<p>Genetic Architecture and Asymmetric Introgression of Sexually Selected Reproductive Barriers</p> <p><i>Semenov G, Linck E, Enbody E, Alström P, Andersson L, Taylor S</i></p>	<p>Genome-wide Analysis Reveal Patterns of Species Collapse Despite Strong Plumage and Ecological Divergence</p> <p><i>Luzuriaga-Aveiga VE, Weir JT</i></p>	<p>Past, Current, and Future Distributions of Puerto Rican Fauna: Implications from Climate Change</p> <p><i>Campos Cerqueira Junior M, A Nieves-Colón N, A Folch-Mercado N, Aide M</i></p>	<p>*Females that Look Like Males: A Potential Case of Intersexual Mimicry in a Hummingbird</p> <p><i>Falk JJ, Rubenstein D, Webster M</i></p>
<p>*Evaluation of Northern Bobwhite Population Growth and Persistence on Remnant Prairies and Mixed Agricultural Landscapes</p> <p><i>Sinnott EA, Thompson FR, Weegman MD, Mosloff AR, Thompson TR</i></p>	<p>*Diet Influences Metabolic Rates in Neotropical Birds</p> <p><i>Mahecha ML, Gutierrez N, Londoño G, Cadena D, Gomez C</i></p>	<p>Phylogeography of the Eye-ringed Flatbill (<i>Rhynchocyclus brevirostris</i>; Passeriformes, Tyrannidae)</p> <p><i>León-García F</i></p>	<p>*Eco-climatic Factors and Spatial Heterogeneity on Occupancy Estimate of Waterbirds in Peninsular Malaysia</p> <p><i>Onwuka MC, Mohamed ZB</i></p>	<p>*Feisty Females Are Less Flashy and Fruitful: Female Aggression, Ornamentation, and Fitness in the Prothonotary Warbler</p> <p><i>Chen EB, Bulluck LP</i></p>
BREAK				



SCIENTIFIC PROGRAM

Wednesday, Morning Session

Room	1	2	3	4	5	6
Session (EST)	Symposium Island Treasures: Lessons Learned from 30 Years of Avian Research, Education, and Conservation	Symposium Urban Bird Conservation and Global Change: Celebrating 50 Years of Bird Research In, Of, and for Cities	Symposium Understanding Citizen Scientists in Service of Managing and Conserving Birds: Attitudes, Motivations, Behavior, and Identity	Symposium Predicting Bird Distributions Under Global Change	Behavior	Biogeography
1000	Assessing Bird Populations While Providing Research Experiences to Undergraduate Students in Guajataca State Forest, Puerto Rico <i>Tossas AG</i>	Remotely Sensing Cities' Skies: A (Bright) Future for Urban Radar Ornithology <i>Farnsworth A, Van Doren BM, Horton KG, Nilsson C, Sheldon D, La Sorte F, Dokter AM, Loranlen V, Bello J, Kelling S</i>	The Case for Social Science Research in the Natural Sciences <i>Phillips T</i>		*Assessing Geographic Variation in Song Structure and Plumage Coloration in the Willow Flycatcher (<i>Empidonax traillii</i>) Species Complex <i>Mahoney SM, Reudink MW, Pasch B, Theimer TC</i>	*Spatial Non-stationarity in North American Breeding Bird Distributions <i>Rousseau JS, Betts MG</i>
1015	2010-2019: Ten Years of the Caribbean Waterbird Census <i>Cañizares J, Gerbracht J, Sorenson L, Reed J</i>	Backyard Birds: How Do Species Traits Influence People's Subjective Evaluations of Urban Bird Communities? <i>Andrade R, Lerman SB, Larson KL, Franklin J</i>	*Understanding How and Why People Feed Birds: Implications for Future Research on Supplemental Feeding <i>Mady RP, Martin VY, Dayer AA, Bonter DN</i>	*Seasonal Movement of an Amazonian Terrestrial Insectivore Suggests Avoidance of Conditions Associated with Changing Climate <i>Jirinec V, Rutt CL, Elizondo EC, Rodrigues PF, Stouffer PC</i>	*Odour-based Discrimination of Sex and Major Histocompatibility Complex Genotype in Songbirds <i>Grievess LA, MacDougall-Shackleton EA, Bernards MA, Gloor G</i>	Genomic Data Reveal Demographic History of Over 300 Avian Species Under Past Climate Change <i>Germain RR, Feng S, Rahbek C, Graves GR, Zhang G, Nogués-Bravo D</i>
1030	Celebrating 32 Years of the Journal of Caribbean Ornithology—How a Humble Journal Has Contributed to Both Ornithology and the Development of Young Scientists Throughout the Caribbean <i>Proctor J</i>	Bird-Window Collisions in Urban Areas: Evaluating Risk Factors and Mitigation Approaches <i>Loss SR, Elmore JA, Lao S, O'Connell TJ, Riding CS, Riggs GJ</i>	Managing Nest Boxes for Invasive Species: What People Think, Know, and Do <i>Phillips TB, Martin VY, Bailey RL, Faulkner-Grant HA, Bonter DN</i>	Climate Change Impacts on Montane Avifaunas Across Latitudes: Patterns, Processes, and Next Steps <i>Freeman BG</i>	*Female Signal Jamming in Cowbird Courtship <i>Anderson H, Perkes AD, Gottfried JS, Davies HB, White DJ, Schmidt MF</i>	*Phylogeography and Evolutionary History of the Elusive Antwrens in the Neotropical Genus <i>Euchrepomis</i> (Thamnophilidae) <i>López-Marcos A, Bolívar-Leguizamón SD, Costa TV, Whitney BM, Aleixo A, Silveira LF, Brumfield RT, Pérez-Emán JL, Bravo GA</i>
1045	The Role of the Media in Promoting Awareness of Birds and Conservation Issues—BirdsCaribbean's Media Working Group <i>Lewis EC, Yokoyama MC</i>	Modeling Urban Bird-Habitat Associations with i-Tree in Santo Domingo, Dominican Republic <i>Arendt WJ, King DI, Lerman SB, Meléndez-Ackerman EJ, Pérez ME, Bauer J</i>	*To eBird or Not to eBird? Recreation Specialization Explains Citizen Science Contribution Patterns <i>Rosenblatt CJ, Dayer AA, Duberstein JN, Phillips T, Cole NW, Fulton DC, Harshaw HW, Raedeke A, Rutter J, Wood CL</i>	Mapping Trait-based Extinction Risk: Identifying Areas of Conservation Concern for Parrots in a Changing World <i>Burgio KR, White RL, Montaña-Centellas F, Davis KE, Presley SJ, Willig MR</i>	*Kinship and Fine-scale Genetic Structure in a Cooperatively Breeding Grayish Baywing (<i>Agelaioides badius</i>) <i>Rojas Ripari J, Campagna L, Mahler B, Reboreda J, Lovette I, Maria Cecilia D</i>	

* - indicates student presenters eligible for AOS presentation award.



7	8	9	10	11
Breeding Biology	Habitat Change and Habitat Relations	Abundance, Occupancy, Trends	Un Poco De Todo Lightning Talks - General Session	Migration and Conservation
<p>Drivers of Declines in Common Loon Productivity in Ontario, Canada</p> <p><i>Bianchini KM, Tozer DC, Alvo R, Bhavsar SP, Mallory ML</i></p>	<p>*A Meta-analysis of Edge Effects on Nest Success in Forest and Shrubland Birds of Eastern North America</p> <p><i>McInvale SL, Akresh ME, King DI</i></p>	<p>Spatial and Temporal Variation in Survival and Connectivity of North American Pelicans</p> <p><i>Van Tatenhove AM, Rushing CS</i></p>	<p>Distribution, Density, and Habitat Associations of Non-breeding, Tidal Marsh Birds in Mississippi</p> <p><i>Weitzel SL et al.</i></p> <p>-----</p> <p>Role of Foot Stomping During Female Mate Choice & Species Recognition in Prairie-Chickens</p> <p><i>Wright CJ et al.</i></p> <p>-----</p> <p>Rediscovering the Striped Sparrow in Aguascalientes, Mexico</p> <p><i>Carrillo Martinez DA et al.</i></p>	<p>*Stopover Territoriality in Subalpine Warblers and Its Role in Life History Stage Transitions</p> <p><i>Aispuro AA</i></p>
<p>*Does Investment in Reproduction Decrease with Increasing Migration Costs in Neotropical Tyrant Flycatchers?</p> <p><i>Sousa NO, Oliveira CV, Lima NM, Heming NM, Marini MÃ</i></p>	<p>Habitat Use of Juvenile Baird's and Grasshopper Sparrows in the Northern Great Plains</p> <p><i>Guido NA, Correll MD, Olsen BJ, Bernath-Plaisted J, Panjabi AO, Ruskin KJ</i></p>	<p>Insights into Detection and Habitat Use of Black- and Yellow-billed Cuckoos, Two Declining and Poorly Understood Species</p> <p><i>Johnson CA, Benson TJ</i></p>	<p>Morphological, Vocal and Genetic Divergence Between Geographically Isolated Populations of an Andean Bird (<i>Diglossa cyanea</i>)</p> <p><i>Martinez-Gomez SC et al.</i></p> <p>-----</p> <p>Urban Nesting Habitat of the Invasive Monk Parakeet (<i>Myiopsitta monachus</i>) on the Metropolitan Zone of Guadalajara, Jalisco, Mexico</p> <p><i>González-Ruelas PS et al.</i></p> <p>-----</p> <p>Conspecific Recognition of the Chatter-Call by Parasitic Shiny Cowbird <i>Molothrus bonariensis</i> Nestlings</p> <p><i>Crudele I et al.</i></p>	<p>*Variation in Space Use and Exposure to Potential Risk Factors During Migration Are Not Associated with <i>Vermivora</i> Warbler Population Trends</p> <p><i>Kramer GR, Andersen DE, Buehler DA, Wood PB, Peterson SM, Streby HM, Aldinger KR, Bulluck LP, Harding S, Vallender R, Loegering JP, Smalling C</i></p>
<p>*Secondhand Homes: Varying Success of Secondary Cavity Nesting Birds in Relation to a Local Ecosystem Engineer</p> <p><i>Hardin F, Grace J, Cairns D, Campbell T, Morrison M</i></p>	<p>*Variation in Scale-dependent Habitat Selection by Great Gray Owls (<i>Strix nebulosa</i>)</p> <p><i>Gura K, Bedrosian B, Patla S, Chalfoun A</i></p>	<p>*Weight and Abundance Variation of an Aerial Insectivorous (Gray-rumped Swift/ <i>Chaetura cinereiventris</i>) Over 30 Years in North-Central Venezuela</p> <p><i>Quijano G, Lentino M</i></p>	<p>Ecosystem Engineering is Critical for Maintaining Mountain Plover Habitat in Northeastern Wyoming</p> <p><i>Duchardt CJ et al.</i></p> <p>-----</p> <p>Home-Range Size of an Andean Bird: Assessing the Role of Physical Condition</p> <p><i>Castaño MI et al.</i></p> <p>-----</p> <p>"Chancing on a Spectacle": Co-occurring Animal Migrations and Interspecific Interactions</p> <p><i>Cohen EB et al.</i></p>	<p>*Migration Ecology of Western Gray Catbirds</p> <p><i>Mancuso KA, Fylling ME, Hodges KE, Lancaster MB, Bishop CA, Stone KR</i></p>
<p>*Immunosuppression and the Cost of Reproduction in Male Birds: A Meta-analytic Approach</p> <p><i>Valdebenito JO, Halimubieke N, Lendvai ÁZ, Figuerola J, Székely T</i></p>	<p>House Price Index Predicts Impact of Habitat Loss for Birds in the East but Not West United States</p> <p><i>Acosta Alamo M, Manne LL</i></p>	<p>An Evaluation of Avian Use of Marsh Terraces in Gulf Coastal Wetlands</p> <p><i>McFarland M, Davis B, Brasher M, Woodrey M, Reynolds L, Vizcarra F</i></p>	<p>The Case for Expanding Automated Telemetry Efforts Across the Caribbean</p> <p><i>Lefevre KL et al.</i></p> <p>-----</p> <p>Extreme Long-duration Wind Tunnel Flights Demonstrate Lean Mass--Not Fat Mass--May Limit Flight Duration in Migratory Blackpoll Warblers</p> <p><i>Elowe CR et al.</i></p> <p>-----</p> <p>High Genetic Connectivity in a Threatened Songbird Despite Substantial Habitat Loss and Population Decline--the Tricolored Blackbird</p> <p><i>Barr KR et al.</i></p>	<p>Monitoring Bird Diversity in Migration Stopover Habitat: Assessing the Value of Extended Duration Audio Recording</p> <p><i>Roark E, Gaul W</i></p>



SCIENTIFIC PROGRAM

Wednesday, Morning Session (continued)

Room	1	2	3	4	5	6
Session (EST)	Symposium Island Treasures: Lessons Learned from 30 Years of Avian Research, Education, and Conservation	Symposium Urban Bird Conservation and Global Change: Celebrating 50 Years of Bird Research In, Of, and for Cities	Symposium Understanding Citizen Scientists in Service of Managing and Conserving Birds: Attitudes, Motivations, Behavior, and Identity	Symposium Predicting Bird Distributions Under Global Change	Behavior	Biogeography
1100	The Important Role that Caribbean Bird Festivals Play in Encouraging an Interest and Appreciation of Birds and Promoting Local Conservation Values <i>Llegus-Santiago EM, Diaz-Méndez S</i>	Birds in Urban Greenspaces: Novel Ecosystems for Nesting, Feeding and Eluding Predators <i>Zuria J, Zuñiga-Palacios J, Carbo-Ramirez P</i>	Evidence First, Deduction Second, and Practice, Practice, Practice: Extending Avian Science and Conservation Through Citizen Science <i>Parrish JK</i>	Using Historical Demography to Forecast Climate Vulnerability in Migratory Birds <i>DeSaix M, Bossu C, Gibbs HL, Marra P, Sherry T, Smith T, Webster M, Ruegg K</i>	*Transgenerational Effects of Experimentally Increased Maternal Corticosterone on Parental Behavior of Male House Wrens <i>DiSciullo RA, Thompson CF, Sakaluk SK</i>	*Bergmann's Rule is Followed at Multiple Stages of Post-embryonic Development in a Long-distance Migratory Songbird <i>Youtz J, Miller KD, Bowers K, Rogers S, Bulluck LP, Johnson M, Peer BD, Percy KL, Johnson E, Ames EM, Tonra CM, Boves TJ</i>
1115	Raising Awareness and Building Capacity for Conservation of Birds in Puerto Rico: The Puerto Rican Ornithological Society <i>Lugo G, González N, Ramos L, Izaskun L</i>	DISCUSSION	DISCUSSION	*Shorebird Migration on the Gulf of Mexico, Linking Wetlands Across America <i>Herbert JA, Taylor CM</i>	Behavioral Responses to Divergent Vocal Signals in Allopatric Neotropical Sparrows are Explained by Acoustic Similarity <i>Fernández RA, Moralez-Mávil JE, Hernández-Salazar LT, Sosa-Lopez JR</i>	*Precipitation-induced Changes in the Investment on Eggs by Kingbirds <i>Silva MA, Heming NM, Marini MA</i>
1130	BREAK					



* - indicates student presenters eligible for AOS presentation award.



7	8	9	10	11
Breeding Biology	Habitat Change and Habitat Relations	Abundance, Occupancy, Trends	Un Poco De Todo Lightning Talks - General Session	Migration and Conservation
Nest Success and Beach Restoration: A Comparison of Three Beach-nesting Birds in Coastal Louisiana <i>Williams KM, Johnson EI, Taylor CM</i>	Assessing Spatiotemporal Use of Nonbreeding Diving Bird Species in U.S. Atlantic Waters: Potential Exposure to Offshore Wind Development <i>Spiegel CS, Stenhouse IJ, Berlin AM, Gilbert AT, Gray CE, Montevecchi WA, Savoy L, Goodale MW</i>	Influence of Habitat Structure, Landscape Composition, and Food Availability on the Distribution and Abundance of Eastern Whip-Poor-Will <i>Souza-Cole IF, Ward MP, Benson TJ, Foster JT, Mau RL, Tonra C, Skinner A</i>	DISCUSSION	*Impact of Plant Traits on Extent of Temporal Overlap Between Fruiting Plants and Introduced Avian Dispersers: Implications for Seed Dispersal Success in a Novel Ecosystem <i>Wilcox R, Tarwater C</i>
*Red-whiskered Bulbuls (<i>Pycnonotus jocosus</i>) Synchronize Their Nestlings' Fledging by Compensatory Feeding in Broods with Asynchronous Hatching <i>Liu C, Quan R, Li H</i>	*Fragmentation and Precipitation Effect on the Diversity of Antwren Flocks in Panama Isthmus <i>Castaño Diaz MD, Parra JL, Kelley JP</i>	*Effects of Resource Availability and Climate on Elevational Movements of Passerine Species Within the Breeding Season <i>Zillig MW, Fleishman E</i>		*Social Networks and the Illegal Trade of Wild Birds: A Call of Attention <i>López FG, Rebollo ME, Santillán MÁ, Berkunsky I, Grande JM</i>
BREAK				





SCIENTIFIC PROGRAM

Wednesday, Afternoon Session

Room	1	2	3	4	5	6
Session (EST)	Symposium Island Treasures: Lessons Learned from 30 Years of Avian Research, Education, and Conservation	Symposium Urban Bird Conservation and Global Change: Celebrating 50 Years of Bird Research In, Of, and for Cities	Symposium Contemporary Insights into Evolutionary Processes Using Large- scale Comparative Analyses of Avian Behavior	Symposium Predicting Bird Distributions Under Global Change	Symposium Studies of Avian Radiations in the 21st Century	Birds and Agriculture
1400	A Participatory Approach to Managing Offshore Islands in Antigua and Barbuda <i>Lawrence N, Daltry J, Wilson N, Challenger S, Steele S, <u>Otto A</u></i>	Effects of Urbanization and Landscape on Wild Avian Gut Microbiomes <i><u>Derryberry E</u>, Berlow M</i>	Ecological Drivers and Evolutionary Consequences of Interspecific Territoriality in North American Songbirds <i><u>Cowen MC</u>, Drury JP, Grether GF</i>	Spatial Distribution of the Boreal Owl and Northern Saw-whet Owl in the Boreal Region of Alberta, Canada <i><u>Domahidi Z</u>, Shonfield J, Nielsen SE, Spence JR, Bayne EM</i>	Studies of Avian Radiations in the 21st Century, an Introduction <i><u>Taylor SA</u>, Stervander M, Campagna L, Toews DP</i>	Livestock Intensification and Landscape Simplification Increase Food Safety Risks Imposed by Wild Birds on Produce Farms <i><u>Smith OM</u>, Edworthy A, Taylor JM, Jones MS, Tormanen A, Kennedy CM, Fu Z, Latimer CE, Cornell KA, Northfield T, Snyder WE, Owen JP</i>
1415	Developing Bird Tourism Opportunities and Sustainable Livelihoods in the Caribbean—the Caribbean Birding Trail <i><u>Robertson H</u>, Sorenson L, Wilson V, Morales R, Ollivierre AD</i>	*The Behavioral, Physiological, and Fitness Effects of Urbanization on Wild Song Sparrows <i><u>Lane SJ</u>, Emmerson MG, VanDeist IJ, Brewer V, Beck ML, Davies S, Sewall KB</i>	Do Himalayan Birds Wear Down Jackets? <i><u>Barve S</u>, Ramesh V, Dove C</i>	Species Responses to Elevation and the Dynamics of Bird Ranges from the Amazon to the Andes <i><u>Jankowski JE</u></i>		Does Intercropping Switchgrass in Private, Working Pine Forests Affect Avian Diversity and Abundance? <i><u>Bracken RD</u>, Greene DU, Miller DA, Rush SA</i>
1430	Engaging Youth in Science and Conservation Through BirdSleuth Caribbean <i><u>Fee J</u>, <u>Sorenson L</u></i>	The Effects of Anthropogenic Noise and Light on Settlement and Success in a Community of Birds <i><u>Phillips JN</u>, Francis CD</i>	*Global Drivers of Variation in Nest Size and Parental Effort in Passerines <i><u>Vanadzina K</u>, Sheard C, Laland K</i>	Assessing the Consequences of Endogenous Factors in the Recent Range Expansion of Great-tailed Grackles Using a Bayesian Network <i><u>MacPherson MP</u>, Logan CJ</i>	The Role of Environmental Heterogeneity in Driving the Adaptive Diversification of the Antbirds (Aves: <i>Thamnophilidae</i>) <i><u>Bravo GA</u></i>	Community Composition and Foraging Selectivity of Insectivorous Bird on Central Kenyan Shade Coffee Farms <i><u>Kammerichs-Berke D</u>, Johnson MD</i>
1445	The Rebirth of Ashton Lagoon, Union Island, SVG: A Conservation Success Story <i><u>Joseph O</u>, Shortte K, Andrews A</i>	For the People and for the Birds in the Americas -- Celebrate Urban Birds <i><u>Marquez JE</u>, Purcell K, Lopez Fretts M</i>	Is Ecological Specialization Reflected in Metabolic Network Complexity? A Test with 250 Bird Species <i><u>Morrison ES</u>, Badyaev AV</i>	Aggregate Citizen Science Field Notes Reveal Seasonal and Directional Dispersal Flights in Eurasian Collared-Doves <i><u>Slager DL</u></i>	Evolutionary Genomics of a Widespread Continental Radiation: The <i>Motacilla</i> Wagtails <i><u>Enbody ED</u>, Alström P, Menon N, Harris R, Liu Y, Lei F, Andersson L</i>	The Bioregion of the Llanos: An Area of Importance for Aquatic Birds. Case: Wetlands in Agrosystems <i>Araujo Quintero A, <u>Martinez M</u></i>

* - indicates student presenters eligible for AOS presentation award.



7	8	9	10	11
Outreach/ Management/Policy	Annual Cycle	Un Poco De Todo Lightning Talks - General Session	Life History	Migration and Stopover Ecology
<p>*How Removing a "Soulless" Invasive Shrub Affects the Community Structure of Songbirds</p> <p><u>DeJong L</u>, Toman EM, Matthews S</p>	<p>Accounting for Survivorship Bias in Estimation of Migratory Connectivity from Archival Tags</p> <p><u>Rushing CS</u>, Van Tatenhove AM, Sharp AJ, Ruiz-Gutierrez V, Sillett TS, Sykes Jr PW</p>	<p>The Effects of Territory Size and Territory Characteristics on Mating and Nesting Success of Male Cassin's Sparrow (<i>Peucaea cassinii</i>) in Southern Colorado</p> <p><u>Forrest AW et al.</u></p> <p>-----</p> <p>Bird Diversity Patterns in Three Modification Scenarios of a Mountainous Landscape of Southern Mexico</p> <p><u>Suarez O et al.</u></p> <p>-----</p> <p>Double Brooding as a Weak Demographic Driver of Population Growth in a Threatened Barn Swallow Population in Eastern Canada</p> <p><u>Mann HA et al.</u></p>	<p>The Thermal Performance of Worn House Sparrow (<i>Passer domesticus</i>) Feather Coats is Even Worse Than You Think</p> <p><u>Graveley JM</u>, Burgio KR, Rubega M</p>	<p>Exploring the Genomics of Migration Timing in a Long-distance Migratory Songbird, the Purple Martin</p> <p>de Greef E</p>
<p>*Evaluating the Effectiveness of Marbled Murrelet Habitat Conservation Planning: Disentangling Management from Environmental Factors</p> <p><u>Brunk KM</u>, Chinnici S, Pidgeon A, Peery MZ</p>	<p>*Using Tracking Data to Explore the Range-wide Migratory Connectivity of Painted Buntings</p> <p><u>Sharp AJ</u>, Ruiz-Gutierrez V, Contina A, Bridge E, Kelly J, Rushing C, Sillett S</p>	<p>Sex-specific Causes and Consequences of Variable Testosterone Circulation in the White-shouldered Fairywren (<i>Malurus alboscapulatus</i>)</p> <p><u>Boersma J et al.</u></p> <p>-----</p> <p>Drinking and Fighting: A Hummingbird's Paradise?</p> <p><u>Rico-Guevara A et al.</u></p> <p>-----</p> <p>Natural and Anthropogenic Effects on Distributions of Pacific Swallow Populations</p> <p><u>Ramirez B et al.</u></p>	<p>*Investigating Fiordland Penguin (Tawaki) Dietary Plasticity Using Stable Isotopes</p> <p><u>White JW</u>, Mays HL, Mattern T, Hopkins III JB, Garcia-Borboroglu P, Ellenberg U, Seddon PJ, Houston DM, Crowley B</p>	<p>Data from Citizen Scientists and Weather Surveillance Radar Explain Patterns of Bird Strikes at Three Commercial Airports in the US</p> <p><u>Nilsson C</u>, La Sorte F, Dokter A, Horton K, Doren BV, Kolodzinski J, Shamoun-Baranes J, Farnsworth A</p>
<p>*Measuring Direct and Indirect Effects of Conventional Oil Infrastructure on Grassland Bird Abundance in Alberta</p> <p><u>Dawson JP</u>, Norris DR, Esch EH, Rosa P, Koper N</p>	<p>Understanding Population Regulation and Limitation in a Genoscape-Network of a Declining Migratory Songbird</p> <p><u>Taylor CM</u>, Harrigan R, Ruegg K, Saracco J</p>	<p>Dispersal Ability Correlates with Range Sizes in Amazonian White-Sand Ecosystems Specialist Birds</p> <p><u>Guimarães Capurro J et al.</u></p> <p>-----</p> <p>Breeding Biology and Nest Survival of Hellmayr's Pipit (<i>Anthus hellmayri</i>) in Natural Grasslands in Buenos Aires Province, Argentina</p> <p><u>Colombo MA et al.</u></p> <p>-----</p> <p>Palomarin Field Station Data Explorer: Communicating the Value of a Long-Term Field Station</p> <p><u>Dybala KE et al.</u></p>	<p>*Nest Concealment but Not Nest Size Affects Nest Depredation Probability in a South American Grass Wren Population</p> <p><u>Jefferies MM</u>, Llambías PE</p>	<p>Understanding How Stopover Habitats Function During Spring and Autumn Migration Along the Northern Gulf of Mexico Coast</p> <p><u>Zenzal TJ</u>, Buler JJ, Calderon L, Randall LA, Barrow WC, Cronin JP, Wilson BC, Vermillion W</p>
<p>eBird Status and Trends Update: Distributions and Abundances for 600 North American Species</p> <p>Fink D, <u>Auer T</u>, Johnston A, Strimas-Mackey M, Robinson O, Ligocki S, Iliff M, Wood C, Davies I, Kelling S</p>	<p>*Energetic Consequences of Different Migration Strategies: An Annual Cycle Perspective from Lesser Black-backed Gulls</p> <p><u>Brown M</u>, Bouten W, Camphuysen K, Shamoun-Baranes J</p>	<p>Distributional Patterns of Monospecific and Mixed Colonies of Caciques and Oropendulas</p> <p><u>Machado-Stredel F</u></p> <p>-----</p> <p>Hierarchical Modeling of the Response of Great Basin Avifauna to the Area and Fragmentation of Riparian Habitat</p> <p><u>Fogarty F</u></p>	<p>*Alternative Reproductive Tactics in a Cooperatively Breeding Bird with Low Kin Structure</p> <p><u>Shah SS</u>, Rubenstein DR</p>	<p>Characterizing Differences in Migratory Phenology of Lazuli Buntings Across an Elevational Gradient Using RFID Technology</p> <p><u>Savides K</u>, Rushing C</p>



SCIENTIFIC PROGRAM

Wednesday, Afternoon Session (continued)

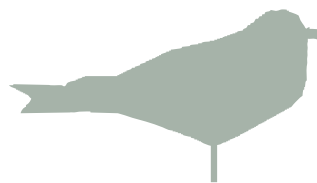
Room	1	2	3	4	5	6
Session (EST)	Symposium Island Treasures: Lessons Learned from 30 Years of Avian Research, Education, and Conservation	Symposium Urban Bird Conservation and Global Change: Celebrating 50 Years of Bird Research In, Of, and for Cities	Symposium Contemporary Insights into Evolutionary Processes Using Large-scale Comparative Analyses of Avian Behavior	Symposium Predicting Bird Distributions Under Global Change	Symposium Studies of Avian Radiations in the 21st Century	Birds and Agriculture
1500	DISCUSSION	DISCUSSION	Cooper's and Sharp-shinned Hawks Fill Discrete Niches Created by the Relative Abundances of Their Prey Species <i>Miller ET, Mac Aodha O, Greig EI, Bonter DN, Hochachka WM</i>	*Long-term Demographic Changes of Black-throated Blue Warblers (<i>Setophaga caerulescens</i>) from Across the Breeding Range <i>Lewis WB, Cooper RJ, Chandler RB, Sillettt TS</i>	*Switches in Migratory Behavior and Speciation in Tyrant Flycatchers (Tyrannidae) <i>Gómez V</i>	*An Assessment of the Determinants of Recruitment in Tree Swallow (<i>Tachycineta bicolor</i>) <i>Carle-Pruneau E, Garant D, Bélisle M</i>
1515			DISCUSSION	DISCUSSION		
1530	BREAK					



* - indicates student presenters eligible for AOS presentation award.



7	8	9	10	11
Outreach/ Management/ Policy	Annual Cycle	Un Poco De Todo Lightning Talks - General Session	Life History	Migration and Stopover Ecology
	Discriminating Non-breeding Origin and Migration Chronology in a Long-distance Migratory Shorebird Staging in the Canadian Prairies <i>Cosentino J, McKellar A, Hobson K, Navedo J, Newstead D, Ortiz E, Morrissey C</i>	DISCUSSION	*Pre- to Post-fledging Carryover Effects Reflect Trade-offs that Explain Life History Variation among Altricial Songbirds <i>Jones TM, Benson TJ, Brawn JD, Ward MP</i>	Identification of Important Shorebird Sites in the Insular Caribbean <i>Cañizares J, Reed J</i>
	*Subannual Fruit Production of a Tropical Tree Reduces Interspecific Competition for Avian Seed Dispersal Services <i>Schubert SC, Walters EL</i>			Raptor Counts During the Autumn Migration in Cuba and Hispaniola (2018 and 2019) <i>Vina-Davila N, Rodríguez- Santana F, Segovia-Vega Y, Plasencia-Leon C, Fuentes- Caballero JR, Sánchez- Zaldivar L, Tamayo- Escobedo F</i>
BREAK				





SCIENTIFIC PROGRAM

Wednesday, Poster Evening Session

Room	1	2	3	4	5	6
Session (EST)	Behavior	Physiology; Ecotoxicology; Endocrinology	Migration; Movements; Population Dynamics	Methods; Management; Morphology; Molt	Song; Annual Cycles; Life History	Climate Change; Habitat; Foraging
1730	Social Networking of Wintering Chestnut-collared Longspurs in Oklahoma's Grasslands <i>Perera N et al.</i>	How Long Do Maternal Effects Last? a Study of Maternal Hormonal Investment in Quail Embryos <i>Winnicki SK et al.</i>	Overland Spring Migration of Common Loons (<i>Gavia immer</i>) in Florida <i>Kratter AW et al.</i>	Reintroduction of Northern Bobwhite to the Gus Engeling Wildlife Management Area (Texas, USA) <i>Cagigal Perez R et al.</i>	Fowl Language: Cassin's Sparrow Males Use Different Songs in Different Contexts <i>Allenback D et al.</i>	Does Mesoclimate Drive Singing Phenology in Desert Songbirds? <i>Pandit MM et al.</i>
1735	Polarization Properties of Solar Panels May Trigger Maladaptive Water-seeking Behavior in Birds <i>Barratt Heitmann J et al.</i>	What Predicts Torpor in Hummingbirds? an Integrative Examination of Torpor Across the Phylogeny, Landscape, and Individual <i>Spence AR et al.</i>	Migratory Bird Movements Near the Southwestern Shoreline of Lake Erie <i>Wellik MJ et al.</i>	Modeling Woodpecker Damage in Wooden Utility Pole Systems Across the Southeast United States <i>Wright HC et al.</i>	*Comparisons Between Birds Detected by Autonomous Recordings Units (ARU) and Mist Net Captures at a Migration Banding Station <i>Deng Y et al.</i>	Influence of Climate Change on Avian Patterns of Functional and Phylogenetic Structure in a Seasonally Dry Tropical Forest <i>Leandro-Silva V et al.</i>
1740		Interactions Between Stress Hormones and Blood Parasites Along an Elevation Gradient <i>Martinez V et al.</i>	Interannual Variability in Energetic Condition and Recruitment of Semipalmated Sandpiper in Northeastern Venezuela <i>Angelozzi-Blanco G et al.</i>	*An Integrated Population Model for Spatial Capture-recapture and Distance Sampling Data <i>Mohankumar NM et al.</i>	Geographic Variation in Song Within the Yellow-backed Oriole (<i>Icterus chrysater</i>) <i>Suter A et al.</i>	Impacts of Extreme Disturbances at Wintering Areas on Piping Plover Survival and Migratory Connectivity <i>Ellis KS et al.</i>
1745	Variation in Crown Feather Reflectance in Two Species of Hybridizing Warblers <i>Bulluck L et al.</i>	Eastern Bluebirds Exposed to Environmental Methylmercury Have Higher Concentrations of West Nile Virus Antibodies <i>Varian Ramos CW et al.</i>	Tracking Tiny Migrants: First Description of the Annual Cycle of Tropeiro Seedeater (<i>Sporophila beltoni</i>) <i>Repenning M et al.</i>	*Rapid Assessment of Breeding Productivity, Demographics, and Habitat Suitability of the Canada Warbler (<i>Cardellina canadensis</i>) <i>Burns CA et al.</i>	*Geographic Variation in Vocalizations of the Acorn Woodpecker (<i>Melanerpes formicivorus</i>) <i>Zazueta-Algara JD et al.</i>	Practical Help for Avian Victims of Disaster: Are You Ready to Help Fallen Parrots After the Storm? <i>Latas PJ et al.</i>
1750	Rufous Hornero (<i>Furnarius rufus</i>) Actively Anting with a Millipede in Southernmost Brazil <i>Marcon AP, Andriola JVP</i>		Accipiter Hawks of the Laurentian Upland and the Interior Plains Undertake the Longest Migrations: Insights from Birds Banded or Recovered in Veracruz <i>Córdoba-Cuevas EA et al.</i>	A Novel Method for Captive Rearing and Translocation of Juvenile Common Loons <i>Kneeland M et al.</i>	Geographic Variation in Golden-cheeked Warbler Song Characteristics <i>Finn, DS et al.</i>	Effects of Hurricane Maria on Abundance and Distribution of Pearly-eyed Thrashers in the Luquillo Experimental Forest, Puerto Rico <i>Cruz-Mendoza AC et al.</i>
1755	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS

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7	8	9	10	11	12	13
Citizen Science; Outreach; Working Lands	Phylogenetics; Evolution; Selection	Conservation; Biogeography	Occupancy; Abundance; Population Trends	Communities; Landscapes; Urban Ecology	Breeding Biology; Mating Systems; Parental Care	Disease and Parasites; Brood Parasitism
Urban Bird Inventory Municipality Chacao Caracas Venezuela and Considerations on Population Density vs Points Monitored <u>Albornoz Méndez RE et al.</u>	The First Charadriiform Bird from the Eocene Green River Formation Clarifies the Pattern and Timing of a Major Neoavian Radiation <u>Musser G et al.</u>	Intraspecific and Interspecific Aggregations and Habitat Use by Threatened Sheldgeese (<i>Chloephaga</i> Spp.) in Austral Patagonia, Argentina <u>Cossa NA et al.</u>	Do Surveys Tell the Whole Story? Comparing Atlas Data to Roadside Point Counts <u>Adams E et al.</u>	Moonlight Impacts Parental Behavior in a Diurnal Bird Species <u>Miller CR et al.</u>	*Extra-pair Copulation and Male Parental Investment in Cassin's Sparrow (<i>Peucaea cassinii</i>) <u>Visser G et al.</u>	*Evaluation of FTA® Cards for the Molecular Detection of <i>Mycoplasma gallisepticum</i> in Wild Birds from North Georgia <u>Free MM et al.</u>
Pay Attention. Be Astonished. Tell About It./ Presta Atención. Asómbrete. Cuéntalo <u>Wheelwright NT et al.</u>	*Systematics of a Radiation of Neotropical Suboscines (Aves: Thamnophilidae: <i>Epinecrophylia</i>) <u>Johnson O et al.</u>	Multiple Point Fixed Transects for Rapidly Estimating the Minimum Number of Distinct Individual Parrots <u>Joyner L et al.</u>	Using Citizen Science Bird Data to Test the Feasibility of Modeling Species Distributions with Spatially Biased Data <u>Gaul W et al.</u>	*Important Ornithological Areas in Valle Central, Cochabamba and Surroundings <u>Camacho D et al.</u>		Interactions Between Avian Pox and Malaria in Hawaiian Forest Birds <u>Samuel MD et al.</u>
*Improving Resightings of Two-banded Plovers Flag Codes by Using Digital Photo-identification in Patagonia, Argentina <u>Hevia G et al.</u>	Glacial Cycles Promote the Diversification of the Southern Lapwing (<i>Vanellus chilensis</i>) and a Secondary Contact Zone <u>Bukowski B et al.</u>	Responses of <i>Polylepis</i> Birds to Patch and Landscape Attributes in the High Andes <u>Sevillano-Rios C et al.</u>	Seabird Monitoring in an Important Bird Area of Puerto Rico <u>Morales Quintana GI et al.</u>	*High Abundance of Bats in the Diet of a Barn Owl (<i>Tyto alba</i>) Couple in a Dry Forest of Tolima, Colombia <u>Baldrich LM et al.</u>	*Comparative Breeding Success, Predators, and Nesting Substrate of Worthen's Sparrow and Other Birds Using an Agricultural Landscape in Northern Mexico <u>Villanueva-Vázquez GE et al.</u>	Identifying the Genetic Mechanisms Underlying Resistance or Tolerance to Avian Malaria in Hawaiian Honeycreepers <u>Navine AK et al.</u>
*Citizen Science as an Alternative to Study Altitudinal Migration in Neotropical Birds <u>Herrera SA et al.</u>	Drivers of Differences in Migratory Timing in Neotropical Migrants - a Common Yellowthroat Case Study <u>Bobowski T et al.</u>	The Effects of Pishing and Playback on Avian Fitness <u>Ortega M et al.</u>		Scale of Effect of Landscape Structure on Diurnal Raptors in a Fragmented Tropical Dry Forest <u>Martínez-Ruiz M et al.</u>	Friend or Foe? the Influence of Neighbours on Mountain Bluebird Reproductive Success <u>Joly S et al.</u>	Infection with <i>Mycoplasma gallisepticum</i> Augments Sociality in Juvenile House Finches <u>Langager MM et al.</u>
With Atlantic Forest Conversion to Open Farmland, Cavity-nesting Birds Increasingly Rely on Woodpecker Excavation in Snags <u>Bonaparte EB et al.</u>	The Effects of Ionizing Radiation on Mutation Rate in Fukushima Barn Swallows (<i>Hirundo rustica</i>) <u>Doherty, CM et al.</u>	Mapping the Distribution Range of the Red-fronted Parrotlet and Evaluating Its Protection in Costa Rica <u>Segura, D</u>	Habitat Association Effects on Abundance of a Common and Generalist Insular Raptor: The Red-tailed Hawk (<i>Buteo jamaicensis</i>) in Puerto Rico <u>Gallardo JC et al.</u>	Important Sites for Endemic Bird Conservation in the Chaco <u>Cardozo R et al.</u>		Wild Birds as Reservoirs of <i>Mycoplasma gallisepticum</i> ; the Influence of Diet on the Prevalence of MG Infections <u>Pressley VA et al.</u>
QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS



SCIENTIFIC PROGRAM

Wednesday, Poster Evening Session

Room	1	2	3	4	5	6
Session (EST)	Behavior	Physiology; Ecotoxicology; Endocrinology	Migration; Movements; Population Dynamics	Methods; Management; Morphology; Molt	Song; Annual Cycles; Life History	Climate Change; Habitat; Foraging
1800	*The Lights Are On, but is Anyone Home? Assessing Problem-solving Performance of Wild Hybrid Chickadees in the Field <i>Bennett BL et al.</i>	A Retrospective Analysis of Methylmercury in the Feathers of Indonesian Avifauna <i>Dzielski SA et al.</i>	Diversity, Abundance and Avian Health of Migratory Grassland Birds in Estación Salado, Vanegas, San Luis Potosí, México <i>Vargas Facundo E et al.</i>	Wildlife Drones: Innovative Technology for Efficiently Radio-tracking Small Birds <i>Saunders D et al.</i>	Brown Creeper Songs Are Individually Distinctive and Geographically Variable <i>Winter J et al.</i>	*Climatic Variability Explains Interannual Variation in Breeding Distributions of Grasshopper Sparrows <i>Smith DJ et al.</i>
1805	Predictors of Nest Placement and Location Within the Weaverbirds (Family, Ploceidae) of Awash National Park, Ethiopia <i>Burg N et al.</i>	Changes in Avian Mercury Concentrations Through Time: A Scoping Review and Meta-analysis <i>Dzielski SA et al.</i>	Understanding Habitat Quality Drivers for Migratory Songbirds in a Coffee Production Landscape <i>Rodríguez F et al.</i>	Emerging Tools: Raptor Habitat 3D Modeling with an Unmanned Aircraft System: Osprey Nest Case Study <i>Stephens J et al.</i>	*Differences in Song Structure of Three Bird Species Along an Altitudinal Gradient in the Tropical Andes of Bolivia <i>Cortes-Romay RV et al.</i>	*The Influence of Climate Nest Temperature on Nestling Survival and Growth in Barn Swallows: Implications of Climate Change <i>Baker KM et al.</i>
1810	*Rain or Shine: The Influences of Temperature and Precipitation on the Frequency and Duration of Avian Parental Care <i>Morgan JE et al.</i>	Examining the Additive Burdens of Pesticide Exposure and Malaria Infection on Spring Departure in a Migratory Songbird <i>Byrd AJ et al.</i>	Cabo De San Antonio, Guanahacabibes Península as Stopover Site for Migratory Birds in Cuba <i>Llanes Sosa A et al.</i>	Rapid Prototyping for Ornithology - What Can 3D Printers and Laser Cutters Do for the Study of Birds? <i>Woodman CJ et al.</i>	Characterizing Vocalizations of an Endangered Hawaiian Finch: Cultural Evolution in Palila? <i>Mason LL et al.</i>	Can Nest Type and Climate Select Egg Shape? <i>Silva TL et al.</i>
1815	Responses of House Wrens to a Novel Object: Interactions with Fitness-related Traits and Physiology <i>Ambardar M et al.</i>	Oxidative Stress in the Seaside Sparrow (<i>Ammospiza maritima</i>) Following the Deepwater Horizon Oil Spill <i>Angel AN et al.</i>	Motus Automated Telemetry Reveals Sanderling and Red Knot Migration Patterns in the North American Midcontinental Flyway <i>Bianchini KM et al.</i>	Using Drones to Reduce Disturbance While Monitoring Endangered Chaco Eagle Nests <i>Gallego D et al.</i>	Association Between Song and a Complex Habitat Transition in a Neotropical Passerine, the Rufous-collared Sparrow <i>Attiná N et al.</i>	Effects of Climate on Nest Success of the Chalk-browed Mockingbird (<i>Mimus saturninus</i>) in the Woodlands of Buenos Aires <i>Jacoby MR et al.</i>
1820	Nest Site Selection and Nest Predation of Louisiana Waterthrush (<i>Parkesia motacilla</i>) in Central Tennessee <i>Powell S et al.</i>		Assessing Post-breeding Dispersal Movements of Adult and Juvenile Wood Thrush in Southeastern Pennsylvania <i>Bebel A et al.</i>		The Effect of Corticosterone on the Ontogeny of Babbling in a Wild Parrot Species <i>McLean CR et al.</i>	Effects of Drought on Sex Biasing in Cassin's Sparrows (<i>Peucaea cassinii</i>) <i>Sinker AF et al.</i>
1825	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS

* - indicates student presenters eligible for AOS presentation award.



7	8	9	10	11	12	13
Citizen Science; Outreach; Working Lands	Phylogenetics; Evolution; Selection	Conservation; Biogeography	Occupancy; Abundance; Population Trends	Communities; Landscapes; Urban Ecology	Breeding Biology; Mating Systems; Parental Care	Disease and Parasites; Brood Parasitism
Community Training in Bird Monitoring is an Effective Tool in Increasing Public Engagement in Conservation <i>Augustine Q et al.</i>	Comparative Analysis of Repeated Sequences in Avian Genomes <i>Echeverria R et al.</i>	*Lost in Translocation: Effects of Mitigation Translocation on Burrowing Owl Survival and Fidelity <i>Doublet D et al.</i>	*Changes in the Avian Community of Johnson County, Iowa (1907-2019) <i>Alderson JD et al.</i>	The Avian Gut Microbiome and Its Effects on the Fitness of a Passerine Bird <i>Somers SE et al.</i>		Parasite-Host Interactions and Biogeography of Avian Malaria in Five Host Species of Northern Central American Cloud Forest Birds <i>Gladkov GT et al.</i>
The Value of Supporting Locally Led Co-created Participatory Science Projects Integrating Culture, the Arts and Stewardship Through the Americas <i>Purcell K et al.</i>	An Investigation into Phenotypic Variance and Microevolution in Introduced Populations of Feral North American Rock Pigeons (<i>Columba livia</i>) <i>Rackowski S et al.</i>	*Factors Affecting Burrowing Owl Nest Site Selection in Artificial Burrows in Arizona <i>Fonseca KJ et al.</i>	Fire Island National Seashore Piping Plover (<i>Charadrius melodus</i>) Monitoring Project <i>Wilson JR et al.</i>	Exploring MHC Evolution in Two Seasonally Sympatric Populations of Dark-eyed Juncos <i>Fernandez EM et al.</i>	*Cerulean Warbler Habitat Selection, Breeding Biology, Survival, and Space Use in the Ozark Region <i>Wessels JL et al.</i>	An Experimental Test on the Susceptibility of Yellow-rumped Warblers to a Widespread Avian Malaria Parasite <i>Soares L et al.</i>
Direct Assessment Shows Little Effect of Science Communication Training <i>Rubega MA et al.</i>	Elevational Variation in Body Size and Hematological Parameters of Andean Coots from the High Andes of Peru <i>Díaz A et al.</i>	Kakariki (<i>Cyanoramphus auriceps</i>) Distribution in Upland Sites of Abel Tasman National Park, New Zealand <i>Robinson Jr DA et al.</i>	Evaluation of Unmanned Aerial Vehicles for Surveys of Lek- mating Grouse <i>Augustine JK et al.</i>	*Effect of Nest Predation on Flammulated Owl (<i>Psiloscops flammeolus</i>) Nest Site Selection <i>Ellison J et al.</i>	Examining the Effects of Settlement and Habitat Preferences on Eastern Bluebirds Breeding Biology <i>Bailey ML et al.</i>	Assessing the Impact of Haemosporidian Parasites in Raptors Health <i>Pacheco MA et al.</i>
*Sustainable Bioenergy Production and Integrated Valuation of Ecosystem Services <i>Duffie DR et al.</i>	Ecomorphological Distinctness at the Macroevolutionary Level in Birds <i>Cortes Ramirez G et al.</i>	Breeding Site Fidelity of Two Austral Migratory Flycatchers Is Related to Sex and Habitat <i>Barbosa K et al.</i>	Distribution, Reproduction and Migration of the Silvery Grebe Complex in Argentina <i>Martin LB et al.</i>	Introgression and Character Displacement in an Amazonian Piculet Contact Zone <i>Lima H et al.</i>	*Chickadees Increase Provisioning Effort to Compensate for Poor Prey Quality During the Nestling Period <i>Senécal S et al.</i>	Haemosporidian Bird Parasites in Dry Deciduous Forests Associated to Urban Areas on Guayaquil, Ecuador: a First Approach <i>Pibaque PA et al.</i>
The Role of Songbirds in Agricultural Insect Pest Control <i>Mayne SJ et al.</i>	Opposing Mitonuclear Co-introgression and Divergent Selection in Siberian Songbirds <i>Nikelski EGM et al.</i>	Behavioral Flexibility of Tidal Marsh Birds in Response to Nest Flooding <i>Apgar SE et al.</i>	Agroecosystems in Santander, Colombia: Source of Ornithological Diversity and Focus of Research at the Industrial University of Santander <i>Rodríguez A et al.</i>	Evolutionary History of the Stripe-backed Antbird: Implications of a Historical Connection Between Two Neotropical Dry Forests <i>Pil MW et al.</i>	Food Abundance as an Environmental Cue for the Start of Reproduction of <i>Elaenia albiceps</i> <i>Gorosito CA et al.</i>	Are Elevational Distributions of Tropical Birds Limited by Parasites? Insights from Two Biodiversity Hotspots <i>Pulgarin P et al.</i>
QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS



SCIENTIFIC PROGRAM

Wednesday, Poster Evening Session

Room	1	2	3	4	5	6
Session (EST)	Behavior	Physiology; Ecotoxicology; Endocrinology	Migration; Movements; Population Dynamics	Methods; Management; Morphology; Molt	Song; Annual Cycles; Life History	Climate Change; Habitat; Foraging
1830	Assessing the Effects of Individual Traits on Boldness in a Wild Population of Song Sparrows (<i>Melospiza melodia</i>) <u>Higgins T et al.</u>	Relationships Between Lead Toxicity and Oxidative Stress in Migrant and Resident Populations of Turkey Vulture (<i>Cathartes aura</i>) <u>Gresham AM et al.</u>	Programa Venezolano De Anillamiento De Aves (PVAA): Implementing a Nationwide Bird Banding Network in Venezuela <u>Fernandez JC et al.</u>	A Novel Method for Captive Rearing and Translocation of Juvenile Common Loons <u>Kneeland M et al.</u>	*Behavioral and Neural Responses to Far-range Songs in a Territorial Songbird <u>Strauss AV et al.</u>	Upslope Shifts in an Afrotropical Bird Community: A 39-Year Resurvey <u>Neate-Clegg MH et al.</u>
1835	Testing the Challenge Hypothesis in a Tropical Polygynous Bird, the Wire-tailed Manakin (<i>Pipra filicauda</i>) <u>Alfonso C et al.</u>	*Does Range Expansion or Ongoing Dispersal Explain Apparent Panmixia in Bachman's Sparrow? a Temporal Study Using Museum DNA <u>Settlekowski AE et al.</u>	Ongoing Bird Banding Monitoring Schemes in Cuba: Objectives and Main Results <u>Rodriguez-Santana F et al.</u>	A Data-driven Geospatial Workflow to Improve Mapping Species Distributions and Assessing Extinction Risk Under the IUCN Red List <u>Palacio RD et al.</u>	Do Morphological Traits Constrain Song Evolution in a Family with Diverse Feeding Adaptations? <u>Mirando HR et al.</u>	Climate Change Impacts for Threatened, Range-restricted Birds of Northwest Peru's Dry Forests <u>García Olachea D et al.</u>
1840	Revealing Hummingbirds' Aggressive Behavior in Feeders: A Case Study in Colombia <u>Tellez N et al.</u>	Population Genetic Structure and Genetic Diversity of Toll-like Receptors Genes in the Endangered Sierra Madre Sparrow <u>Ham-Dueñas JG et al.</u>	Using the USGS Bird Banding Lab Database to Assess Dispersal in Northern Cardinals (<i>Cardinalis cardinalis</i>) <u>Shustack DP et al.</u>	Observing the Behavioral Thermoregulation of Common and Thick-billed Murres (<i>Uria aalge</i> and <i>U. lomvia</i>) with Thermal Imaging <u>Kidder E et al.</u>	The Production of Vocal Cues in Response to Changing Food Availability in Pine Siskins <u>Tir JK et al.</u>	Evaluating Conservation Effectiveness Through Trend Analysis of Community Science Data <u>Michel NL et al.</u>
1845	*Lesser Prairie-Chicken Lek Formation, Lek Persistence, and Female Space Use <u>Aulicky C et al.</u>		Barn Swallow (<i>Hirundo rustica</i>) Fledglings Use Crop Habitat More Frequently in Relation to Its Availability Than Pasture and Other Habitat Types <u>Boynton CK et al.</u>		*Using Hawkes Process Models to Assess Behavioral Motivations to Sing, Applied in a Fragmented Forest Landscape <u>Grames EM et al.</u>	Waterfowl Migration Phenology, Climate Change, and Implications for Management <u>Frei B et al.</u>
1850	Telomere Dynamics in a Free-living Population of a Neotropical Lekking Passerine <u>Kuzel M</u>		Phylogeography, Population Structure, and Species Delimitation in Rockhopper Penguins (<i>Eudyptes chrysocome</i> and <i>Eudyptes moseleyi</i>) <u>Mays H et al.</u>		A Repository of the Sounds of Colombia: The Environmental Sound Collection at Humboldt Institute <u>Acevedo-Charry O</u>	
1855	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS

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7	8	9	10	11	12	13
Citizen Science; Outreach; Working Lands	Phylogenetics; Evolution; Selection	Conservation; Biogeography	Occupancy; Abundance; Population Trends	Communities; Landscapes; Urban Ecology	Breeding Biology; Mating Systems; Parental Care	Disease and Parasites; Brood Parasitism
Using Citizen Science to Assess the Ecological Impacts of Urbanization on Birds <i>Moreno S et al.</i>	The Juruá River is a Barrier to Five Bird Taxa <i>Mutchler M et al.</i>		*Climate-driven Shifts in the Non-breeding Distributions of North American Waterbirds <i>Ramirez-Garofalo JR et al.</i>	Bird Assemblages of Mangrove Forest at a Coastal Strip of Veracruz, Mexico <i>Ciprés A et al.</i>		Predictors of Brown-headed Cowbird (<i>Molothrus ater</i>) Brood Parasitism Incidence and Intensity in Prairie Reconstructions <i>Yuza-Pate KL et al.</i>
Use of a Spanish Language Poster for Outreach in a Diverse Community (Uso De Un Póster En Español Para Divulgación En Una Comunidad Diversa) <i>Gasga L et al.</i>	Are Island Birds Giants? Testing Foster's Rule Across All Passerines <i>Veale AL et al.</i>	*Evaluation of Body Size Proxies in Birds Using 3D Light Scanning Technology <i>Brawner MD et al.</i>	Resiliency of Coastal Texas Bird Communities Following Hurricane Harvey <i>McCloy MW et al.</i>	.	Scarlet Macaw Nesting Ecology and Behavior in a Pristine Forest <i>Vigo Trauco G et al.</i>	Master Illusionists or Amateur Artists: Do the Patterned Parasitic Eggs of the Generalist Brown-headed Cowbird Resemble Host Eggs? <i>Rutledge SL et al.</i>
Festival of Migratory Birds and Shorebirds of Coche Island, Nueva Esparta, Venezuela <i>Serva D et al.</i>	*Who's Thy Father? Assessing Paternity in a Highly Polygynandrous Passerine Using RADseq Data <i>Rivera-Colón AG et al.</i>		Oscillating Patterns of Nest Box Occupancy and Reproductive Performance in Tree Swallows <i>Lombardo MP et al.</i>	Post-breeding Bird Use of Wildlife Openings in a Heavily Forested Landscape <i>Clipp HL et al.</i>	Breeding Biology and Interspecific Interactions of Cypseloidinae Swifts in Central Brazil <i>Biancalana RN et al.</i>	Does Host Egg Removal by Brown-headed Cowbirds Decrease Parasitic Egg Ejection Rate in Eastern Bluebirds? <i>Libke Z et al.</i>
Our Coffee Our Birds: Birds as Indicators of Environmental Sustainability in Costa Rican Coffee Farms <i>Quesada-Murillo A et al.</i>	Are False Nests in Estrildid Finches a Defense Against Brood Parasitism? <i>Goodvin D et al.</i>	Linking Data Analysis Predictive Modeling to Conservation Decisions for the Eastern Black Rail <i>McGowan C et al.</i>		Russian Olive Habitat Along an Arid River Supports Fewer Bird Species, Functional Groups and a Different Species Composition Relative to Mixed Vegetation Habitats <i>Mahoney SM et al.</i>	Direct and Indirect Factors on Bird Nestling Growth: A Case Study of the Red-crested Cardinal Using Structural Equation Models <i>Palacio FX et al.</i>	Gut Parasites and Host-Parasite Evolution in Leach's Storm-Petrels <i>Dearborn DC et al.</i>
Using MoSi Protocols as a Basis for Overwintering Avian Studies in a Private, Working Forest <i>Bracken R et al.</i>	Genome-wide Patterns of Divergence in <i>Passerina</i> and <i>Cyanocopsa</i> Buntings <i>Megna, L et al.</i>	Quantifying the Impact of Food Subsidy Reduction on a Highly Subsidized Generalist Predator <i>Brunk K et al.</i>		*Habitat Suitability for an Urbanized, Naturalized, and Endangered Species: Red-crowned Parrots in the USA <i>Kiacz S et al.</i>	The Riddle of White Toes on Young American Crows <i>Dewhurst JH et al.</i>	
QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS



SCIENTIFIC PROGRAM

Thursday, Morning Session

Room	1	2	3	4	5	6
Session (EST)	Symposium Studies of Avian Radiations in the 21st Century	Symposium Contemporary Insights into Evolutionary Processes Using Large-scale Comparative Analyses of Avian Behavior	General Ecology	Symposium The Process and Products of Sexual Selection: Ecology, Behavior, Genomics, and Physiology of Manakins	Symposium Leveraging Museum Collections to Track Avian Population Responses to Anthropogenic Change	Symposium Global Concerns and Strategies for Parrot Populations
1000	Unravelling the Drivers of Avian Diversification <i>Cooney CR</i>	Macroevolutionary Drivers of Parental Investment in Nest Construction <i>Sheard C, Street SE, Troisi CA, Clark AD, Healy SD, Laland KN</i>	*Biotic and Abiotic Causes of Variation in Nestling Energy Expenditure Across Species and Geographic Regions <i>Mitchell AE, Wolf BO, Martin TE</i>	Resolving Difficult Nodes in Manakin Phylogeny Using Low-coverage Whole Genome Sequencing <i>Zhao M, White ND, Leite RN, Moncrieff AE, Kurtis S, Brumfield RT, Kimball RT, Braun EL</i>	Introduction to Symposium <i>Benham P</i>	Cultural Disruption in Response to Severe Population Decline in an Iconic Costa Rican Parrot <i>Dahlin CR, Hellmich DL, Vidaurre GS, Dupin M, Eckley K, Wright TF</i>
1015		Conformity to Bergmann's Rule in Birds Depends on Nest Design and Migration <i>Mainwaring MC, Street SE</i>		Comparative Genomics of a Sexually Selected Family of Birds <i>Balakrishnan C, Baldwin M, Wirthlin M, Toda Y, Genomics RCN M</i>	Genomic Data from Museum Specimens Illuminate Population Responses in a Tidal Marsh Songbird to a Century of Anthropogenic Change <i>Benham PM, Walsh J, Bowie RC</i>	Conservation Genetics of Endangered Parrots <i>Wright TF, Campos CI, Russello MA</i>
1030	Assortative Mating by Plumage Coloration <i>Turbek SP, Browne M, Di Giacomo AS, Kopuchian C, Safra RJ, Taylor SA, Campagna L</i>	The Body Language of Birds: Avian Communication Through a Mechanistic Lens <i>Miles MC, Fuxjager M</i>	Introduction to Avian Microbiome Research <i>Videvall E</i>	Genomic Phylogeography of the White-crowned Manakin Illuminates a Continental-scale Radiation Out of the Andes <i>Berv JS, Campagna L, Feo TJ, Castro-Astor I, Ribas CC, Prum RO, Lovette IJ</i>	Unexpected Genetic Structure in the Likely Extinct Hawaiian Ou (<i>Psittirostra psittacea</i>) <i>Przelomska N, James HF, Kistler L, Campana MG, Fleischer RC</i>	*The Trials and Tribulations of Counting Parrots in the Wild: Are Citizen Science Databases an Informative Alternative to Traditional Field Counts? <i>Dupin MK, Dahlin CR, Wright TF</i>

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7	8	9	10	11	12
Behavior, Movement, Dispersal	Un Poco De Todo Lightning Talks - General Session	Songs and Vocalizations	Conservation	Evolution and Evolutionary Ecology	Habitat and Habitat Relations
<p>Identification and Evaluation of Mortality by Predation in Nests of Thick-billed Parrot (<i>Rhynchopsitta pachyrhyncha</i>) in ANPs of Chihuahua, Mexico</p> <p><i>Torres Gonzalez LF, Sheppard J, Juarez E, Gonzalez Rojas J, Cruz Nieto J, Cruz Nieto MA, Rangel Resendez DM, Olvera Diaz M, Puente Guevara FM</i></p>	<p>Bird-Habitat Relationships Across Life Stages in Grassland Songbirds of the Northern Great Plains</p> <p><i>Correll MD et al.</i></p> <p>-----</p> <p>Weather Events Underlie Stopover Behavior During a Long-distance Migration</p> <p><i>Linscott JA et al.</i></p> <p>-----</p> <p>Raptor Evolution in Response to Megafaunal Extinction</p> <p><i>Takano OM et al.</i></p>	<p>*Female Singers Contribute to Territory Defense Physically, but Not Vocally, During Playback Experiments in an Australian Songbird</p> <p><i>White KK, Beckmann C</i></p>	<p>*How Wet is Too Wet? Avian Community Responses to Wetland Augmentation and Creation</p> <p><i>Peterson SM, Beissinger SR</i></p>		<p>*Greater Roadrunner Habitat Selection in a Coastal Prairie-Brushland Mosaic: Implications for Coastal Prairie Restoration</p> <p><i>Malone DR, Boal CW, Blankenship TL</i></p>
<p>*Post-fledging Ecology and Behavior of an Endangered Species: The Golden-cheeked Warbler</p> <p><i>Trumbo EM, Ward MP, Brawn JD</i></p>	<p>Phylogenetic Relationships of New World Jays Using Thousands of UCE Loci</p> <p><i>Tsai Nakashima WL et al.</i></p> <p>-----</p> <p>Does Size Really Matter? Factors Affecting Juvenile Recruitment in a Neotropical Migratory Songbird</p> <p><i>Balmer AM et al.</i></p> <p>-----</p> <p>Does Differential Maternal Investment Exist Within European Starling Clutches?</p> <p><i>Tymkiw A et al.</i></p>	<p>*The Evolution of Innate Vocal Traits Supports the Vocal Learning Continuum Hypothesis in Birds</p> <p><i>Moran IG, Louca S, Doucet SM, Mennill DJ, Stanley MC, Cain KE</i></p>	<p>*Does Getting the Worm Help the Breeding Bird? Supplemental Feeding Affects Nestling Growth in Some Taxa but Not Others</p> <p><i>Fernandez-Duque F, Dzielski SA, Bailey RL, Bonter DN</i></p>	<p>Evolutionary History and Community Assembly in Diurnal Birds of Prey</p> <p><i>Hejmadi SR, Barker K</i></p>	<p>*Nest-site Selection and Breeding Success of Two Neotropical Austral Migrants: A Comparison of Sites with and Without Livestock</p> <p><i>Rebollo ME, Jahn AE, Cereghetti J, Pereyra Fernandez SA, Sarasola JH</i></p>
<p>Till Death Do Us Part: Mate Mortality Predicts Breeding Dispersal in Canada Jays</p> <p><i>Fuirst M, Strickland D, Norris R</i></p>	<p>Bird Conservation in Human-dominated Landscapes of the High Andes</p> <p><i>Hurtado L et al.</i></p> <p>-----</p> <p>First Looks at Landscape-level Bird Migration in Colombia Revealed by Weather Surveillance Radar and Acoustic Monitoring</p> <p><i>Drucker JR et al.</i></p> <p>-----</p> <p>Are Eastern Bluebirds More Likely to Eject Cowbird Eggs that Are in the Center of Their Clutch or on the Periphery?</p> <p><i>Rollfinke MF et al.</i></p>	<p>Geographic Variation in the Duets of the Rufous-naped Wrens Complex (<i>Campylorhynchus rufinucha</i>)</p> <p><i>Ku-Peralta W, Navarro-Sigüenza AG, Sandoval L, Sosa-López JR</i></p>	<p>*Asian Woollynecks in Nepal: Distribution, Ecology and Conservation</p> <p><i>Ghimire P, Pandey N, Ghimire R, Bist BS, Belbase B, Basnet A, Timilsina YP</i></p>	<p>Previously Undescribed Sexual Size Dimorphism and Geographic Variation of Plumage in Orange-fronted Parakeets</p> <p><i>Sannapareddy S, Maley JM</i></p>	<p>Assessing Priority Bird Response to Open Pine Management in Eastern Mississippi</p> <p><i>Todaro HM, Evans KO, Lewis SE</i></p>



SCIENTIFIC PROGRAM

Thursday, Morning Session (continued)

Room	1	2	3	4	5	6
Session (EST)	Symposium Studies of Avian Radiations in the 21st Century	Symposium Contemporary Insights into Evolutionary Processes Using Large-scale Comparative Analyses of Avian Behavior	General Ecology	Symposium The Process and Products of Sexual Selection: Ecology, Behavior, Genomics, and Physiology of Manakins	Symposium Leveraging Museum Collections to Track Avian Population Responses to Anthropogenic Change	Symposium Global Concerns and Strategies for Parrot Populations
1045	The Role of Plumage Coloration in the Diversification of High Elevation and High Latitude Finches <i>Funk ER, Mason NA, Spellman GM, Ruegg KC, Winker K, Taylor SA, Zavaleta E, Withrow JJ, Pálsson S, Albrecht T</i>	Elevational Niche-shift Migration and Phenotypic Plasticity of an Austral Migrant Hummingbird <i>Williamson JL, Bauernfeind SM, Baumann MJ, Gadek CR, Ricote-Martinez N, Marra PP, Bozinovic F, Witt CC</i>	The Impact of Group-selection Timber Harvesting on Avian Diversity in West-Central New Hampshire <i>Parks S, Reitsma L</i>	*Hybridization Dynamics and Population Genomics of a Manacus Hybrid Zone <i>Long KM, Braun MJ, Brawn JD</i>	Investigating the Effects of Climate Change on Phenology and Demographics of Molt-migration in the North American Monsoon Using Museum Resampling <i>Terrill RS, Tsai Nakashima WL, Maley JM, Shedl M, Rohwer S, McCormack JE</i>	"Returning to the Wild" a Parrot Conundrum <i>Zimmermann BJ</i>
1100	The Evolution of Plumage Coloration and Its Underlying Mechanisms in Male and Female Tanagers <i>Shultz AJ, Dall JE, McCoy DE, Burns KJ</i>	Testing the Function of "Flash" Plumage Signals in North American Passerines Using Comparative Methods <i>Benedict L, McEntee J, Jones H, Moran K, Strong K, Robinson S</i>	Differential Behaviour and Heart Rate Physiology Responses to Familiar and Unfamiliar Predators in an Arctic Seabird <i>Geldart EA, Love OP, Gilchrist H, Harris CM, Semeniuk CA</i>	Evolutionary History of a Manakin Hybrid Zone that Exhibits Asymmetrical Introgression of Traits <i>Lim H, Bennett K, Dikow R, Frandsen P, Fuxjager M, Schlinger B, Braun M</i>	Climate Change Affects Bird Nesting Phenology: Comparing Contemporary Field and Historical Museum Nesting Records <i>Bates JM, Fidino M, Nowak-Boyd L, Strausberger BM, Schmidt KA, Whelan CJ</i>	*Wild Scarlet Macaw Foster Parents as a Tool for Aiding Population Recovery <i>Vigo Trauco G</i>
1115	Predictable Patterns of Plumage Gene Evolution in Wood Warblers <i>Baiz MD, Lovette IJ, Toews DP</i>		Conservation Priority Birds and Their Habitat Relationships in Iowa Forests <i>West BM, Dinsmore SJ</i>	Phylogenomics Indicate Smaller Taxonomic Diversity in a Manakin Species Than Currently Understood <i>Ferreira C, Polo E, Bandeira L, Paulo P, Teófilo F, Day LB, Aleixo A, Anciães M, Hrbek T</i>	Using Bird Specimens to Reconstruct 200 Years of Atmospheric Soot and Its Impacts on Signaling Traits <i>DuBay S, Fuldner C</i>	*Seasonal Variation in Fecal Glucocorticoids and Their Relationship to Reproductive Success in Captive Populations of an Endangered Parrot <i>Ramos-Guivas B, Jawor JM, Wright TF</i>
1130	BREAK					



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7	8	9	10	11	12
Behavior, Movement, Dispersal	Un Poco De Todo Lightning Talks - General Session	Songs and Vocalizations	Conservation	Evolution and Evolutionary Ecology	Habitat and Habitat Relations
Nocturnal Flight Behaviour of a Long-distance Neotropical Migrant During the Post-fledging Period <i>Cormier DA, Taylor PD, Brown JM</i>	Patterns and Processes Altering the Attendance of Army Ant-following Birds to Army Ant Swarms <i>Gomez Murillo L, Kelly JP, Tarwater CE</i> ----- Variation in Behavioral Syndromes in Brood Parasites of the Genus <i>Molothrus</i> Not Explained by Genetic Variation in DRD4 Faagment <i>Scardamaglia RC, Memelsdorff N, Vazquez M, Crig MI Vagnozzi AE, Ferretti V</i>	*An Examination of Genomic and Acoustic Differentiation Between Eastern, Lilian's, and Western Meadowlarks <i>Beam JK, Funk ER, Taylor SA</i>	Using Citizen-Science Data to Identify Declining or Recently Extinct Populations of Bahamian Birds <i>Wilcove D, Bagwyn R, Burivalova Z, Bao K</i>	The Impact of Natural History on Plumage Color in Cardinalidae <i>Scott B, Burns K</i>	Natal Survival and Dispersal Influence Population Structure in a Threatened Shorebird <i>Swift RJ, Anteau MJ, Ellis KS, Ring MM, Sherfy MH, Toy DL, Koons DN</i>
Flight Efficiency Explains Differences in Natal Dispersal Distances in Birds <i>Claramunt S</i>	DISCUSSION	Cultural Conformity and Persistence in the Context of Differing Site Fidelity <i>Parker TH, Sousa B, Leu ST, Edmondson S, Foo C, Strauss A, Kahl H, Ballinger K, Ross E, Große Ruse M, Sandsten M, Verheijen BH</i>	Use of Artificial Nests and Selection Requirements by Amazon Parrots in Belize <i>Tarazona-Tubens FL, Britt CR, Abadi F, Desmond MJ</i>	Toward Reconciliation of the Four World Bird Lists: Hotspots of Disagreement in Taxonomy of Raptors <i>McClure CJ, Lepage D, Dunn L, Anderson DL, Schulwitz SE, Camacho L, Robinson B, Christidis L, Schulenberg TS, Iliff MJ, Johnson J</i>	*Spatial Distribution Assessment, Conservation and Management Recommendations for the West Indian Whistling Duck in Puerto Rico <i>Díaz-Méndez SN, Cooper JC, None N</i>
					Testing Physiological and Social Costs Associated to a Novel Plumage Trait in a Neotropical Songbird <i>Avendaño JE, Cadena CD</i>
BREAK					





SCIENTIFIC PROGRAM

Thursday, Afternoon Session

Room	1	2	3	4	5	6
Session (EST)	Symposium Studies of Avian Radiations in the 21st Century	Symposium Contemporary Insights into Evolutionary Processes Using Large-scale Comparative Analyses of Avian Behavior	Symposium Birds and Hurricanes: Effects, Responses, Resilience, and Conservation	Symposium The Process and Products of Sexual Selection: Ecology, Behavior, Genomics, and Physiology of Manakins	Symposium Leveraging Museum Collections to Track Avian Population Responses to Anthropogenic Change	Brood Parasites
1400	Why is Sympatric Speciation Rare in Birds? <i>Porter CK, Benkman CW</i>	Female Songs in Space: Assessing Evolutionary Patterns and Drivers of Elaborate Female Song and Dimorphism in Feature Space <i>Odum KJ, Araya-Salas M, Benedict L, Hall ML, Langmore NE, Webster MS, Riebel K</i>	An Overview of Hurricane Effects on Birds and Avian Responses, Resilience, and Conservation <i>Wunderle, Jr JM, Carlo-Joglar TA</i>	*Detecting Genomic Signatures of Natural Selection in a Strongly Sexually Selected Species <i>Shogren EH, Boyle A</i>	Historical Patterns in Mercury Exposure for North American Songbirds <i>Perkins M, Lane OP, Evers DC, Sauer A, Adams EM, O'Driscoll NJ, Edmonds ST, Jackson AK, Hagelin JC, Trimble J, Sunderland EM</i>	Female Screaming Cowbirds Avoid Repeatedly Parasitizing Host Nests: Genetic Evidence from a Specialist Brood Parasite <i>Ursino CA, Strong M, Reboreda JC, Riehl CP</i>
1415		Phylogenetic Analyses Reveal Drivers of Adaptive Interspecific Territoriality <i>Drury J</i>	Impacts of Hurricanes on Forest Structure in Puerto Rico: A Review <i>Zimmerman JK</i>	What is the Role of Environmental Heterogeneity in the Evolution of the Blue-crowned Manakin? <i>Paulo P, Bandeira LN, Ferreira C, Teófilo FH, Moncrieff A, Polo É, Machado AF, Dias C, Cohn-Haft M, Hrbek T, Kaefer IL, Anciães M</i>	The Colombia Resurvey Project: Evaluating 100+ Years of Changes in Bird Assemblages Since the American Museum of Natural History Expeditions <i>Gomez C, Tenorio E, Cadena CD</i>	Pairing Status Moderates Both Production and Responses to Anti-parasitic Referential Alarm Calls in Male Yellow Warblers <i>Lawson S, Enos J, Mendes NC, Gill SA, Hauber ME</i>
1430	Sympatric Divergence in an Isolated Island Finch Radiation Driven by Foraging Adaptations with a Simple Genetic Architecture <i>Stervander M, Tarka M, Lundberg M, Lindberg M, Wang W, Eland C, Grabherr M, Dainat J, Dunsch L, Melo, M, Ryan P, Hansson B</i>	The Relative Importance of Natural Selection and Sexual Selection in Speciation in the Tanagers <i>Price-Waldman RM, Demery AJ, Mason NA, Shultz AJ, Title PO, Burns KJ</i>	Impacts of Hurricane Maria on Tropical Forests: Is This the New Normal? <i>Uriarte M, Thompson J, Zimmerman JK, Hall J</i>	Simply Complex: Variation in Manakin Displays via Networks, Lossless Compression, Fractal Dimension and Entropy <i>McDonald DB, Oakley NJ</i>	Historical Museum Specimens and Modern Citizen Science Data Reveal 100 Years of Change to Mexico's Birdlife <i>Terrill RS, Maley JM, Tingley MW, McCormack JE</i>	Conspecific Brood Parasitism in Red-breasted Mergansers: Patterns of Host Choice and Reproductive Success Throughout a Host's Lifetime <i>Craik SR, Titman RD</i>
1445	Genomic Islands of Differentiation in a Rapid Avian Radiation Are Driven by Recent Selective Sweeps <i>Hejase HA, Salman A, Campagna L, Hubisz MJ, Lovette IJ, Gronau I, Siepel A</i>	Hybridization in Birds is Linked with Social and Migratory Traits <i>Leighton GM, Lu LJ, Holop E, Dobler J, Ligon RA</i>	Resistance and Resilience of Forest Bird Populations Subjected to Multiple Disturbances in the Luquillo Mountains, Puerto Rico <i>Waide RB</i>	*The Oddest of Manakins: Behavioral Evidences for an Atypical Mating System <i>Kajiki LN, Macedo RH</i>	Natural History Collections Are Critical and Underutilized Resources for Contemporary and Future Studies of Urban Evolution <i>Shultz AJ, Adams BJ, Bell KC, Ludt WB, Pauly GB, Vendetti JE</i>	Numerical Abilities in a Brood Parasite, the Brown-headed Cowbird <i>Guigueno M, Arthur J, Coto A, Sherry DF</i>

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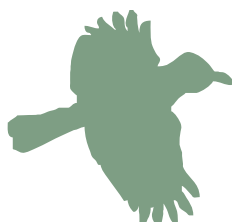
7	8	9	10	11	12	13
Community Ecology	Breeding Biology	Population Dynamics	Behavior	General Ecology	Symposium 100-year Anniversary of Bird Banding Lab: A Century Supporting and Advancing Management and Conservation Science	Evolution and Evolutionary Ecology
Keeping Friends Close: Brood Clustering and Spatiotemporal Predator Avoidance Determine Fledging Success in a Precocial Bird <i>Wilde LR, Swift RJ, Senner NR</i>	Breeding Biology of Two Neotropical Austral Migrants at the Center of Argentina: Vermilion and Fork-tailed Flycatchers <i>Rebollo ME, Jahn AE, Sarasola JH, Cereghetti J</i>	*Increasing Temperatures Drive the Risk of Reproductive Failure in a South African Alpine Ground-nesting Bird, the Cape Rockjumper <i>Oswald KN, Diener EF, Diener JP, Cunningham SJ, Smit B, Lee AT</i>	*Locomotion and Foraging Strategies in Shorebirds of South Texas <i>Majors J, Berg K, Newstead D</i>	Defining the Genomic Health of Declining Burrowing Owl Populations and Informing Captive Breeding Programs <i>Bossu CM, Barr K, Chromczak D, Smith T, Trulio L, Ruegg K</i>	The Migratory Connectivity Project: Mining a USGS Hidden Resource, the Bird Banding Lab Encounter Database <i>Scarpignato AL, Cohen EB, Marra PP</i>	Life History Lessons for the Evolution of Delayed Plumage Maturation <i>Taylor LU</i>
*Population Level Processes on Distribution and Community Level Consequences: A Possible Mechanism for Coexistence <i>Kent CM, Sherry TW</i>	Adaptive Variation in Avian Eggshell Structure and Gas Conductance Across Elevational Gradients? <i>Ocampo D, Cadena CD, Londono G</i>	Factors Influencing the Breeding Success of Brown Pelicans (<i>Pelecanus occidentalis</i>) in Coastal Louisiana <i>Martinez J, Leberg P</i>		*Nests in the City: Complex Patterns of Nesting Behaviors in Two Populations of an Urban-adapting Songbird <i>Bressler SA, Diamant ES, Yeh PJ</i>	Unexpected Dimensions from Banding in Avian Space and Time: Connectivity, Physiology, Phenology, Habitat Values Illuminating Full Annual Cycle Events <i>Ralph CJ, Alexander JD, Wolfe JD</i>	*Drivers of Distributions: Linking Dispersal Ability to the Biogeographic and Evolutionary Histories of Tropical Birds <i>Tsuru BR, Cooper JC, Bates JM</i>
Nature or Nurture? Dissecting Environmental and Genetic Effects in Shaping Gut Microbiota During Avian Development <i>Vargas-Pellicer P, Knowles S, Banks-Leite C, Hadfield J</i>	*Individual Condition is the Key to Understanding Long Term Effects of Early-life Exposure to Invasive Prey <i>Poli C, Robertson E, Martin J, Fletcher R</i>	Data Integration for Autonomous Recording Units and Traditional Point-count Sampling <i>Ross BE, Wood JM, Tegeler AK</i>	Sexual and Natural Selection on the Plumage Coloration of the Helmeted Manakin <i>Lima de Oliveira CS, Kajiki LN, Gawryszewsk FM, Macedo RF</i>	Differential Migration is Not Constant Across Time or Space <i>Manne LL, Alamo MA, Corazza J, Curley SR, Karas J, Ramirez-Garofalo J, Reyfman A, Wang ZJ</i>	MAPS: Standardized Cooperative Bird Banding to Inform Landbird Demography and Conservation in North America <i>Saracco JF, Kaschube DR, DeSante DF</i>	Global Patterns of Phenotypic Macroevolution in Parrots <i>Merwin JT, Lee E, Terrill R, Joseph L, Smith BT</i>
*Adaptations to Light Predict the Ecological Niche and Disassembly of Avian Communities in Tropical Countrysides <i>Ausprey JJ, Newell FL, Robinson SK</i>	*Bendire's Thrasher Nest Survival in Relation to Vegetation Characteristics in the Southwest United States <i>Salas AJ, Desmond MJ, Abadi F</i>	Chasing the Tides: Overwinter Intertidal Movements and Density Estimates of Saltmarsh and Seaside Sparrows <i>Lindquist MC, Buckland EL, Carpenter JP, Danner RM</i>	*Social Dynamics and Mate Pairing among Carolina Chickadees <i>Garlinger RD, Curry RL</i>	Spring Relapse of Avian Haemosporidian Infections in a Neotropical Migrant <i>Soares D, Guglielmo DG, MacDougall-Shackleton D</i>	Contributions of Banding Data to the Development of Avian Demography and Capture-recapture Modeling <i>Kendall WL</i>	A Quantitative Framework for Inferring Vision-related Behavioral Capabilities in Extinct Birds <i>Early CM, Ridgely RC, Witmer LM</i>



SCIENTIFIC PROGRAM

Thursday, Afternoon Session (continued)

Room	1	2	3	4	5	6
Session (EST)	<u>Symposium</u> Studies of Avian Radiations in the 21st Century	<u>Symposium</u> Contemporary Insights into Evolutionary Processes Using Large-scale Comparative Analyses of Avian Behavior	<u>Symposium</u> Birds and Hurricanes: Effects, Responses, Resilience, and Conservation	<u>Symposium</u> The Process and Products of Sexual Selection: Ecology, Behavior, Genomics, and Physiology of Manakins	<u>Symposium</u> Leveraging Museum Collections to Track Avian Population Responses to Anthropogenic Change	Brood Parasites
1500	Genetic Basis and Long-term Dynamics of a Color Polymorphism in Darwin's Finches <i>Enbody E, Grant PR, Grant GR, Sprehn CG, Abzhanov A, Dobрева M, Osborne O, Wang C, Andersson L</i>	DISCUSSION	Effects of Hurricanes on Resident and Winter-resident Birds: 45 Years of Monitoring in the Guánica Dry Forest of Puerto Rico <i>Faaborg J, Toms JD, Arendt WJ</i>	More Than Meets the Eye: High-speed Video Reveals Aerobic Performance and the Production of Mechanical Sounds in Mating Displays <i>Boyle A, Shogren E, Nguyen L, Day L</i>	DISCUSSION	The Effects of Nest Parasitism on Incubation Behavior and Embryonic Development <i>Di Giovanni AJ, Ward MP</i>
1515			Maximum Population Growth Rates, Stability, and Resiliency of Island Endemic Birds to Caribbean Hurricanes <i>Rivera-Milán FF</i>	Testosterone Modulates Status- specific Patterns of Cooperation in Wire- tailed Manakins <i>Ryder TB, Dakin R, Vernasco BJ, Evans BS, Horton BM, Moore IT</i>		
1530	BREAK					



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7	8	9	10	11	12	13
Community Ecology	Breeding Biology	Population Dynamics	Behavior	General Ecology	Symposium 100-year Anniversary of Bird Banding Lab: A Century Supporting and Advancing Management and Conservation Science	Evolution and Evolutionary Ecology
<p>*Nest-site Partitioning and Potential for Interspecific Competition among Cavity-nesting Birds in Old-growth Longleaf Pine</p> <p><u>Levy HE, Cox JA, Cooper RJ</u></p>	<p>Possible Shared Parental Care in Lark Sparrows (<i>Condestes grammacus</i>)</p> <p><u>Duran D, Sinker A, Ramos CV</u></p>	<p>*Environmental Conditions Modulate Compensatory Effects of Site-dependent Regulation in a Food-caching Passerine</p> <p><u>Sutton AO, Strickland D, Freeman NE, Norris DR</u></p>		<p>Proximity to Colonial Avian Predator Impacts Nest Site Selection of Imperiled Tidal Marsh Sparrows</p> <p><u>Cook AM, Cohen JB, Kocek AR</u></p>	<p>Application of Bird Banding Data to Inform Migratory Bird Management</p> <p><u>Richkus K, Boomer S, Devers PK, Dooley J, Garrettson P, Seamans M, Zimmerman G</u></p>	<p>West Nile Virus Emergence and Changes in Genome-wide Diversity in American Crows</p> <p><u>Townsend AK, Clark AB, McGowan K, Eimes JA</u></p>
	<p>*The Influence of White-tailed Deer (<i>Odocoileus virginianus</i>) Browsing on Vegetation and Avian Communities in Fenced and Unfenced Timber Harvests</p> <p><u>Parker HA, Rushing C, Domoto E, Duchamp JE, Heggenstaller D, Larkin JT, Tyree MC, Larkin JL</u></p>	<p>How Stable Are Tropical Bird Assemblages? Insights from a 40-year Mist-net Study in Central Panama</p> <p><u>Pollock HS, Brawn JD, Benson T</u></p>	<p>*Use of Passive Integrated Transponders Increase Detection Rates of Individual Birds Attending Nests</p> <p><u>Kocek AR, Cohen JB, Cook AM, Elphick CS, Field CM</u></p>		<p>100 Years of the USGS Bird Banding Lab: Where Are We Now and How Are We Preparing for the Next Century of Bird Banding?</p> <p><u>Celis-Murillo A</u></p>	
BREAK						





SCIENTIFIC PROGRAM

Thursday, Poster Evening Session

Room	1	2	3	4	5	6
Session (EST)	Behavior	Physiology; Ecotoxicology; Endocrinology Migration; Movements; Population Dynamics Migration; Human Dimensions	Migration; Movements; Population Dynamics	Methods; Management; Morphology; Molt	Song; Annual Cycles; Life History	Climate Change; Habitat; Foraging
1730	Phonology and Syntax of Red-crowned Parrot Duets in South Texas <i>Pozulp A et al.</i>	Validating the Use of a Handheld Meter for Measuring a Plasma Metabolite, Triglyceride, in the Field <i>Roelandt CM et al.</i>	Magnetic Disturbances and Bird Migration on Radar <i>Gulson-Castillo ER et al.</i>	Regional Collaboration to Identify Research Needs and Develop Conservation Guidance for Offshore Wind Development <i>Williams K et al.</i>	*Behavioral Response of Carolina Wrens (<i>Thryothorus ludovicianus</i>) to Songs Altered to Escape the Masking Effects of Anthropogenic Noise <i>Crenshaw LC et al.</i>	The Influence of Pine Management on Grassland-nesting Birds Overwintering in Central Louisiana, USA <i>Raginski NM et al.</i>
1735	Smarts and Symbiosis: Evidence for the Gut-Brain Axis in a Model Songbird <i>Slevin MC et al.</i>	Natural Variation of Insulin-like Growth Factor-1 and Telomere Dynamics Across Multiple Years in House Sparrow Nestlings <i>Sirman AE et al.</i>	Artificial Light at Night Reduces Functional Connectivity of Migratory Routes for Eastern Whip-Poor-Wills <i>Korpach A et al.</i>	Updating Information About Audubon's Shearwater (<i>Puffinus lherminieri</i>) at Los Roques Archipelago (Venezuela) <i>Fernandez JC et al.</i>	A Look into Coastal Rufous-collared Sparrows' Vocalizations: Do They Modify Their Songs to Reduce Surf-noise Masking? <i>Canale E et al.</i>	Winter Survival of Baird's and Grasshopper Sparrows in the Marfa Grasslands, Texas <i>Titulaer M et al.</i>
1740	Weather, singing behaviour and song performance in a Puerto Rican endemic, Adelaide's warbler (<i>Setophaga adelaidae</i>) <i>Vazquez-Cardona J et al.</i>	Proximity to Mining Concessions and Their Downstream Rivers in South-Central Mexico Affects Plumage Coloration in Streak-backed Orioles <i>Kiere LM et al.</i>	Migratory Behavior in <i>Junco hyemalis</i> (Dark-eyed Junco) in Berkshire County, Massachusetts <i>Wait HL et al.</i>	Abundance and Management Strategies for Invasive Rose-ringed Parakeets (<i>Psittacula krameri</i>) in Kaua'i, Hawaii, USA <i>Anderson C et al.</i>	Evidence of Incipient Song Divergence Between Introduced and Native Populations of the Warbling White-eye (<i>Zosterops japonicus</i>) in Hawai'i <i>Robinson JD et al.</i>	*Effects of Chronic Noise Exposure on Nestling Stress Physiology Are Context-dependent in Tree Swallows (<i>Tachycineta bicolor</i>) <i>Obomsawin AP et al.</i>
1745	*Acoustic Adaptation and Cultural Evolution in the Long-billed Hermit (<i>Phaethornis longirostris</i>) <i>Gonzembach H et al.</i>	*Combining Morphological and Molecular Data to Reconstruct the Evolutionary History of Hawaiian Honeycreepers <i>Campillo LC et al.</i>	Should I Stay or Should I Go? the Decision of a Wilson's Plover in a Vanishing Landscape <i>Barnes KB et al.</i>	*A Comparison of Sagebrush-obligate Songbird Abundance Across a Gradient of Habitat Quality in Eastern, Oregon <i>Harrington A et al.</i>	Investigating Female Song and Territoriality of the Endangered Bahama Oriole Across the Annual Cycle <i>Moyer M et al.</i>	Non-native Mammal Species Threaten Transboundary Tropical Seabird Hotspot <i>Coffey J et al.</i>
1750	Choice Responses to Variation in a Female-specific Call that may be Reinforcing a Pattern of Microgeographic Divergence in an Island-endemic <i>Tarango CA et al.</i>		Two Sympatric Mitochondrial Lineages of Oriental Turtle Dove <i>Mochizuki MK et al.</i>		Do Hummingbirds Change their Flight During Molt? <i>Diaz AF et al.</i>	Attractiveness Rather than Abundance in the Wild Leads to Selective Parrot Poaching <i>Vidal PR et al.</i>
1755	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS

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7	8	9	10	11	12	13
Citizen Science; Outreach; Working Lands Climate Change; Habitat; Foraging	Phylogenetics; Evolution; Selection	Conservation; Biogeography	Occupancy; Abundance; Population Trends	Communities; Landscapes; Urban Ecology	Breeding Biology; Mating Systems; Parental Care	Disease and Parasites; Brood Parasitism Conservation; Biogeography Communities; Landscapes; Urban Ecology
Salmonella Smugglers: Investigating the Role of Migratory Birds in the Spread of <i>Salmonella</i> <u>Nadeau-Gneckow J et al.</u>	Phenotypic and Genomic Divergence Despite Recent Speciation in Seed eaters (<i>Sporophila</i>) <u>Nguyen TN et al.</u>	*How Effective is the Birdsbesafe® Cat Collar at Reducing Bird Kills by Domestic Cats? <u>Jensen MB et al.</u>	Low Interannual Site Fidelity for Wintering Yellow Rails <u>Butler CJ et al.</u>	*Changes in Community Temperature & Precipitation Indices Reveal Changes in Composition of Avian Communities <u>Curley SR et al.</u>	Using Game Cameras to Determine More Accurate Nest Fates for Least Terns in Southern Louisiana <u>Bolinger SM et al.</u>	*Evaluation of the Physiological Condition and Status of Infection by Hemosporides in the Painted Bunting (<i>Passerina ciris</i>), in Two Stages of Its Annual Cycle <u>Mijares Villarreal LD et al.</u>
Evaluation of NRCS Cover Crop Programs as Habitat for Wintering, Migrating, and Nesting Birds in Tennessee <u>Panos B et al.</u>	Phylogeography and Species Limits of the <i>Troupial icterus icterus</i> Species Complex <u>Lucas LA et al.</u>	The Hidden Threat of Pesticides and the Role of Wetlands in Mitigating Swallow Declines in Agricultural Landscapes <u>Morrissey C et al.</u>	*Estimating Non-breeding Grassland Birds Population in Managed Ranches in West Texas, USA <u>Chávez-Treviño A et al.</u>	Bird Community Dynamics Across a Successional Gradient in a Tropical Wet Forest <u>Carello C et al.</u>	*Loggers in Artificial Eggs Reveal Wild Scarlet Macaw Incubation in Natural and Artificial Nests <u>Woodman CJ et al.</u>	*Effect of the Shiny Cowbird (<i>Molothrus bonariensis</i>) Brood Parasitism Over the Rufous-collared Sparrow (<i>Zonotrichia capensis</i>) Reproductive Success in Bogotá, Colombia <u>Sierra AF et al.</u>
	The Evolution of Nest Building Behavior in Ploceidae Weaverbirds <u>Habig B et al.</u>	Carcass Removal Time in Wind Farms on Neotropical Grasslands <u>Daniele G et al.</u>	Grassland-breeding Bird Abundance in the National Capital Region <u>Rickert AC et al.</u>	Describing Bird-Plant Frugivory Networks in a Secondary Ombrophilous Forest in Southern Brazil <u>Vásquez-Arévalo FA et al.</u>	Evaluation of Small Unmanned Aerial Systems for Monitoring Wading Bird Nest Abundance and Survival <u>Mirzadi RE et al.</u>	New Avian Hosts for Taphropiestes Spp. (Coleoptera: Cavognathidae) and the First Report of Dermatitis Causing the Death of Nestlings <u>Gonzalez E et al.</u>
Evaluation of Rice Cultivation as Habitat for Birdlife in the Department of Tolima (Colombia) <u>Téllez Díaz E et al.</u>		What Can Ornithologists Tell Us About Global Insect Decline? <u>Grames EM et al.</u>	Are Anthropogenic Disturbances Leading to Homogenization of the Boreal Landbird Community in the Oil Sands Area of Alberta, Canada? <u>Toms JD et al.</u>	Does the Spectacled Owl (<i>Pulsatrix perspicillata</i>) Provide an Ecosystem Service as a Consumer of Exotic Invasive Species?: Preliminary Observations on Owl Pellets at Two Peri-urban Areas of Manizales, Colombia <u>Chaves-Castaño SN et al.</u>	*Can Livestock Farming Prevent the Extinction of Threatened Grassland Birds? a Study Case in South America <u>Browne M et al.</u>	
Bird Community Composition and Structure in Agroecosystems from Tabasco, México <u>Cordova MM et al.</u>	Taxonomy of the Rusty-margined Flycatcher (<i>Myiozetetes cayanensis</i> Linnaeus, 1776) (Tyrannidae) Reveals an Endemic Species from Brazilian Atlantic Forest <u>Ríos-Orjuela JC et al.</u>	First Evidence of Plastics and Microplastics Consumption as Emerging Pollutant in the Diet of the Andean Condor in Chile <u>Herrera P et al.</u>	Occurrence Of Red-masked Parakeet (<i>Psittacara erythrogenys</i>) In Urban Environments Of Guayaquil, Ecuador <u>Vizhnay J et al.</u>	Ecology of Breeding Birds, Ticks, and Tickborne Pathogens in New England Young Forest <u>Magel AT et al.</u>	Mating Strategy Variation and Plasticity in Avian Wild Conspecifics of Domesticated Species as a Potential Indicator of Domesticability <u>Mendel CE</u>	
QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS



SCIENTIFIC PROGRAM

Thursday, Poster Evening Session

Room	1	2	3	4	5	6
Session (EST)	Behavior	Physiology; Ecotoxicology; Endocrinology Migration; Movements; Population Dynamics Migration; Human Dimensions	Migration; Movements; Population Dynamics	Methods; Management; Morphology; Molt	Song; Annual Cycles; Life History	Climate Change; Habitat; Foraging
1800	Exploring Perception of Song Adjusted to Anthropogenic Noise <i>Ng AM et al.</i>	Decreased Nest Survival Associated with Low Temperatures in a High-elevation Population of Mountain Plover (<i>Charadrius montanus</i>) <i>Pierce AK et al.</i>	What Climate Conditions Does an Intratropical Migratory Bird Track? The Yellow-green Vireo (<i>Vireo flavoviridis</i>) <i>Ochoa-González A et al.</i>	Birdwatching and Noise Level Effects on Bird Species Richness and Abundance: Supporting Tourism Management in Natural Areas <i>Molina I et al.</i>	Does <i>Myiozetetes</i> Flycatcher Invest More in Egg Volume with Elevation? <i>Rumpel L et al.</i>	Differential Use of the Trophic Resource by Nearctic Shorebirds in a Coastal Wetland in the Argentine Patagonia <i>Castillo JM et al.</i>
1805	*Amplitude Variation as Honest Signaling in the Long-billed Hermits <i>Talavera ML et al.</i>		*Evolution of Molt-migration is Directly Linked to Aridity of the Breeding Grounds in North American Passerines <i>Pageau C et al.</i>	Photo-ptilochronology: A Less Invasive Technique to Measure the Speed of Molt in a Passerine Bird <i>Valeris CE et al.</i>	*Do Birds Use Shared Song Types to Communicate with Neighbours? A Test with a Puerto Rican Endemic, Adelaide's Warbler <i>Mower PC et al.</i>	Isotopic Study of the Foraging Ecology of Six Cuban Pelecaniforms <i>Rodríguez A et al.</i>
1810	Correlation Between Exploratory Behavior and Oxidative Profile in Urban and Desert House Finches <i>Polekoff SE et al.</i>		Demographic Dynamics of a Central American Pine-Oak Assemblage in Response to Pleistocene Climate Fluctuations <i>Hruska J et al.</i>	Are Differences in Wing Shape in Migratory and Sedentary Yellow Warbler Populations Shaped by Feathers of Skeletal Features? <i>Ting V et al.</i>	Migratory Phenology of the Gray Catbird: A Circular Approach <i>Puleo LV et al.</i>	Habitat Relationships of Forest and Early Successional Bird Communities in Iowa <i>West BM et al.</i>
1815	Artificial Light at Night Drives Early Dawn Chorus Onset Times of the Saffron Finch (<i>Sicalis flaveola</i>) in an Andean City <i>Marín Gómez OH et al.</i>		Comparative Phylogeography Reveals a Pervasive Sister Relationship Between Bird Populations of the Northern and South-Central Atlantic Forest <i>Bocalini F et al.</i>	Molt Strategy, Breeding Phenology and Seasonal Occurrence of the South American Painted Snipe in Southern Brazil <i>Faria FA et al.</i>	*Migratory Connectivity, Migratory Distance, and Wing Morphology in Eastern Whip-Poor-Wills Across the Midwest <i>Skinner A et al.</i>	Preliminary Status Report on the Ferruginous Hawk (<i>Buteo regalis</i>) in Kansas, USA <i>Clark EL et al.</i>
1820	Influential Factors of Cavity Reuse in Acorn Woodpeckers <i>Halllock EM et al.</i>	Census of Aquatic Birds in the Venezuelan Insular Zone: Period 2006-2020 <i>Martinez M</i>	Insights into Mixed-species Bird Flocks Dynamics Through Social Network Analysis from a Costa Rican Highland <i>Muñoz P et al.</i>		From Tradition to Tragedy: Overcoming the Illegal Trade in Cayman Parrots <i>Haakonsson JE et al.</i>	
1825	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS

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7	8	9	10	11	12	13
Citizen Science; Outreach; Working Lands Climate Change; Habitat; Foraging	Phylogenetics; Evolution; Selection	Conservation; Biogeography	Occupancy; Abundance; Population Trends	Communities; Landscapes; Urban Ecology	Breeding Biology; Mating Systems; Parental Care	Disease and Parasites; Brood Parasitism Conservation; Biogeography Communities; Landscapes; Urban Ecology
Are Invasive Fruits Nutritional Traps for Birds? a Synthesis of Patterns in the Northeastern U.S. <i>Pagano SS et al.</i>		A Conservation and Economic Analysis of Birdwatchers Versus Non-birdwatchers in Pennsylvania <i>Sharrow TS et al.</i>	*Evaluation of Avifauna in an Important Coastal Lagoon in Northern Puerto Rico <i>Mercado-Velez NG et al.</i>	*Using Morphological Data to Understand Coexistence of Hispaniola's Two Tody Species <i>Garrod H et al.</i>	Reproductive Phenology and a New Nesting Site of Agami Heron in Southern Mexico <i>Correa Sandoval J et al.</i>	
Foraging Behavior and Efficiency of Reddish Egret in Las Salinas, Ciénaga De Zapata, Cuba <i>Ventura D et al.</i>		Effect of Forest Management on the Density and Abundance of Eight Dry Forest Specialist Bird Species of Northeastern Brazil <i>Ribeiro JR et al.</i>	Decline of Species but Not of Functional Diversity in a Large Protected Area of the Atlantic Rainforest in Brazil <i>Oliveira HS et al.</i>	Temporal Changes of Bird Diversity Using of the Portachuelo Pass, P.N. Henri Pittier State Aragua, Venezuela <i>Lentino M et al.</i>	Local Weather Effects Explain Annual Variation in Northern Goshawk Breeding Performance in the Northern Great Basin, USA <i>Heiser ER et al.</i>	Genetic Structure and Biogeography of the Blue-gray Gnatcatcher (<i>Polioptila caerulea</i>) <i>López DM et al.</i>
Influence of Landscape Composition on the Feeding Habits of the Andean Condor (<i>Vultur gryphus</i>) in Chile <i>Salvo FA et al.</i>	Searching for the Genomic Basis of Differentiation in Plumage Patterning Within the Rufous-collared Sparrow (<i>Zonotrichia capensis</i>) <i>Lavinia PD et al.</i>	*Range-wide Population Structure and Genetic Variation in Seaside Sparrows (<i>Ammospiza maritima</i>) Using a Next-Generation Sequencing Approach <i>Davis KE et al.</i>	*You Can See Marshes, but You Won't See Birds. Which Are the Main Features Bird Prefer to Inhabit a Marsh? <i>Cuevas J et al.</i>	Ten Years of Bird Banding in the Siboney-Jutici Ecological Reserve, Cuba <i>Segovia-Vega Y et al.</i>	Breeding Season Development of the Wilson's Warbler Cloacal Protuberance, Among the Relatively Largest of Any Passerine Species Worldwide <i>Gilbert WM et al.</i>	How Does the Distribution of the Saffron-cowled Blackbird Change Over Time? <i>Marcon AP et al.</i>
The Birds and the Bees: Pollination and Nectar-robbing on At-risk Plants in a Novel Ecosystem <i>Millikin PW et al.</i>	Evaluating Sexual Dimorphism in Long-eared Owl (<i>Asio otus</i>) Plumage <i>Griffith EV et al.</i>	Distribution and Habitat Preferences of <i>Cercomacroides</i> Antbirds (Thamnophilidae) in Western Amazonian Brazil <i>Costa TV et al.</i>	Distribution of Golden Eagle Nests in Two Bio-regions of the State of Chihuahua. Monitoring and Conservation in Northern Mexico <i>Puente Guevara FM et al.</i>	Birds as Ecological Indicators at the University of Pennsylvania <i>Cerwinka CE et al.</i>		Do Birds of Two Dry Forest in South America Follow Ecogeographical Rules? <i>Tanaka MA et al.</i>
Effects of Drought on the Avian Community on the Short Grass Prairie <i>Canney A et al.</i>	Unexpected Plumage Congruence with DNA and Song Evidence for Species Groups in the Hooded Pitta Complex <i>Rasmussen P et al.</i>	Delimiting Areas of Endemism of the Birds of Tropical Asia <i>Oong Z et al.</i>	Detectability and Abundance of Snowy Plovers in Eastern Venezuela <i>Marquez FM, Naveda-Rodríguez A, Fernández Ordoñez JC</i>	Spatial and Temporal Variation in Bird Community in Three Different Urban Parks, Guadalajara, Jalisco, Mexico <i>Barragán-Farías KA et al.</i>	The Influence of Natal Environment and Physiology on Offspring Growth and Development in Eastern Bluebirds (<i>Sialia sialis</i>) <i>Sudnick MC et al.</i>	What Do Birds Tell Us on Grassland Conservation? Recent Findings on Community and Population Studies in Southern Brazil and Uruguay <i>Fontana CS et al.</i>
QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS



SCIENTIFIC PROGRAM

Thursday, Poster Evening Session

Room	1	2	3	5	6
Session (EST)	Behavior	Physiology; Ecotoxicology; Endocrinology Migration; Movements; Population Dynamics Migration; Human Dimensions	Migration; Movements; Population Dynamics	Song; Annual Cycles; Life History	Climate Change; Habitat; Foraging
1830	*Using Automated Radio-telemetry to Assess Spring Migratory Ecology and Survival of Ipswich Sparrows (<i>Passerculus sandwichensis princeps</i>) <u>Bliss S et al.</u>		Influence of Elevation on Canada Warbler Population Dynamics in the Central Appalachian Mountains, USA <u>Augustine SH et al.</u>		Linking Species Distributions to Environmental Variables: Range Maps vs. Points of Occurrence <u>Rotenberry JT et al.</u>
1835	*Sensory Process Sensitivity and Cognitive Test Performance in American Crows <u>Pearce R et al.</u>	Contrasting Fall Migratory Movements in Bank and Barn Swallows <u>Imlay TL et al.</u>	Multiple Sources of Evidence for Density Dependence in the Endangered Hawaiian Stilt <u>van Rees CB, Surya G, Reed JM</u>	Developing a Collaborative Motus Network Across the Great Plains and Chihuahuan Desert <u>Webb MM et al.</u>	Influence of Fire Diversity and Territory Size on Florida Scrub-Jay Fitness <u>Heather ML et al.</u>
1840	*The Effectiveness of Predator Guards on Reproductive Success of Cavity-nesting Songbirds <u>Kelley CM et al.</u>	The Behavioral Ecology of Southwestern United States Turkey Domestication <u>Mendel CE et al.</u>	Las Salinas, Ciénaga De Zapata: An Important Area for Reddish Egret in Cuba <u>Gonzalez A et al.</u>	Wintering Ecology of Chestnut-collared Longspurs in Oklahoma <u>Muller JA et al.</u>	Effects of Sea Level Rise on Nesting Populations of Colonial Birds in Barnegat Bay: 1976 to 2018 <u>Burger J et al.</u>
1845	Foraging Behavior of the Endemic Hummingbird <i>Doricha eliza</i> in a Coastal Area of Yucatán, México <u>Sanmiguel R et al.</u>	Movements and Ecology of Common Nighthawk and Sickle-winged Nightjar from South American Grasslands <u>Cockle KL et al.</u>	*Genetic Diversity in Toll-like TLR1LB and TLR4 Receptors in Migratory Populations of <i>Ammodramus savannarum</i> in Northern Mexico <u>Aldaco GH et al.</u>	*Overwinter Survival and Abundance of Seaside and Saltmarsh Sparrows in Southeastern North Carolina <u>Buckland E et al.</u>	Wintering Home Range Size Association with Grass Cover: Baird's and Grasshopper Sparrows Savannarum in the Chihuahuan Desert of Mexico <u>Peña-Peniche A et al.</u>
1850			Transatlantic Movement of Domestic Pigeons <i>Columba livia domestica</i> and Potential Threats for Native Island Birds <u>Santos GS et al.</u>		
1855	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS

* - indicates student presenters eligible for AOS presentation award.



8	9	10	11	12	13
Phylogenetics; Evolution; Selection	Conservation; Biogeography	Occupancy; Abundance; Population Trends	Communities; Landscapes; Urban Ecology	Breeding Biology; Mating Systems; Parental Care	Disease and Parasites; Brood Parasitism Conservation; Biogeography Communities; Landscapes; Urban Ecology
"Melodia-Us" Morphometrics: Appraisal of Geographic Variation in Song Sparrow Beak Morphology and Its Connection to Song Characteristics <i>Casteel Z et al.</i>	Ornithological surveys of the Selva De Florencia National Natural Park (Samaná, Caldas, Colombia): New Records and Distribution Extensions <i>Gómez D et al.</i>	Patterns in Bobwhite Quail Occupancy Over 15 Years Across the State of Arkansas, USA <i>Christie G et al.</i>	*Noise as a Potential Mechanism Underlying the Effects of Urbanization on the Avian Gut Microbiome <i>Berlow M et al.</i>	Experience Counts: The Role of Female Age in Adjusting Morning Incubation Behavior in Relation to Temperature <i>Williams KA et al.</i>	Urbanization Has Opposite Effects on Territory Size of Two Passerine Birds <i>Juárez R et al.</i>
Pantropical Gene Flow in Three Booby Species <i>Jackson D et al.</i>	Precipitation Seasonality Drives Bird Species Composition in Southwestern Atlantic Forest <i>Torezan LF et al.</i>		A Multi-step Approach to Understanding the Effects of Backyard Bird Feeding on the Abundance and Diversity of Birds in San Antonio, Texas <i>Lamberson A, Smith J</i>	*Nest Visitation Rates and Fledging Patterns in Kirtland's Warblers <i>Olah A et al.</i>	Which Migratory and Over-wintering Birds Use Residential Areas Versus Urban Forest Fragments? <i>Buron RE et al.</i>
Evaluating the Trade-off Between Investing in Coloration and Vocalizations in Finches (Fringillidae), a Passerine Group of Complex Signals <i>Casale AI et al.</i>	Evidence of Niche Conservatism among Pairs of Allopatric Avian Taxa in 2 Neotropical Dry Forests, the Caatinga and the Chaco <i>de Freitas LV et al.</i>	*Do Socially Mediated Allee Effects Limit the Distributions of Trailing-edge Populations? <i>Merker SA et al.</i>		Does Daily Thermal Variability Affect Incubation Behavior of Two Ground-nesting Birds? <i>Kirkpatrick W et al.</i>	Persistence of Secondary Cavities as Nest Sites of the Endangered Red-crowned Parrot in an Urban Landscape <i>Sampeck KK et al.</i>
Sexual Dimorphism Highlights Birds Assemblages More Than Environmental Variables in River Basin of Norte Chico of Chile <i>Petit M et al.</i>	Distribution Extension of <i>Gallinago undulata</i> (Boddaert, 1783) (Birds: Scolopacidae) and Biogeographic Implications <i>Maximiano MF et al.</i>	The Mountain Plover (<i>Charadrius montanus</i>) in Mexico <i>Merayo Garcia J et al.</i>	*Noise Level and Water Distance Drive Resident and Migratory Bird Species Richness Within a Neotropical Megacity <i>Barbosa KV et al.</i>	*Effects of Brood Size on Parent Provisioning and Foraging Behavior: A Field Experiment in Barn Swallows <i>Madden SA et al.</i>	
Conservative Plumage Masks Extraordinary Phylogenetic Diversity in the <i>Grallaria rufula</i> (<i>Rufous antpitta</i>) Complex of the Humid Andes <i>Chesser RT et al.</i>	Cryptic Genetic Diversity and Cytonuclear Discordance Characterize Contact among Canada Jay (<i>Perisoreus canadensis</i>) <i>Graham B et al.</i>	Study of <i>Mycoplasma gallisepticum</i> (MG) in Wild Birds from North Georgia Using Molecular Detection <i>Islam S et al.</i>	Bird Diversity Hotspots Mask Socioeconomic Blind Spots in Sampling Urban Birds: A Comparison of eBird and Systematic Surveys <i>Perkins D et al.</i>	Comparison Of Parental Activity And Nest Predation In Worthen's Sparrow (<i>Spizella wortheni</i>) On Two Different Anthropogenic Disturbance Level Landscapes In Galeana, Nuevo León <i>Gómez EC et al.</i>	Protocol-adherence Behaviors of Citizen Scientists Working with the American Kestrel Partnership <i>Camacho LM et al.</i>
QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS	QUESTIONS



SCIENTIFIC PROGRAM

Friday, Morning Session

Room	1	2	3	4	5	6
Session (EST)	Symposium The Process and Products of Sexual Selection: Ecology, Behavior, Genomics, and Physiology of Manakins	Symposium Birds and Hurricanes: Effects, Responses, Resilience, and Conservation	Symposium The Relevance of Bird Conservation in Broader Land Use, Conservation, and Sustainable Development Efforts	Symposium The Global Rise of Naturalized Parrots: Status, Lessons Learned, and Emerging Issues	Foraging and Food Habits	Avian Diseases and Parasites
1000	Gene Expression in the Social Behavior Network of the Wire-tailed Manakin (<i>Pipra filicauda</i>) Brain <u>Horton BM</u> , <u>Ryder TB</u> , <u>Moore IT</u> , <u>Balakrishnan CN</u>	Short-term Effects of Hurricanes Maria and Irma on Forest Birds of Puerto Rico <u>Lloyd JD</u> , <u>Rimmer CC</u> , <u>Fariá JS</u>	Introduction <u>Lovejoy TE</u> Migratory Bird Conservation on Working Lands in Latin America/ Caribbean: Projects Supported by USFS International Programs <u>Butcher G</u> , <u>Chu J</u>	Global Distribution and Abundance of Naturalized Parrots: Influences of Trade, Culture, and Climate <u>Pruett-Jones S</u>	*Shared Seafood, Segregated Spaces: Foraging Movements and Diet of Sympatric-breeding Arctic Terns and Common Terns on Country Island, NS <u>Nagy-MacArthur A</u> , <u>Mallory M</u>	Influenza a Virus Transmission, Infection, and Immunity in Reservoir and Spillover Hosts <u>Shriner SA</u> , <u>Samsel MK</u> , <u>Ellis JW</u>
1015	Neurogenomic Underpinnings of Testosterone Modulated Cooperative Lek Behaviours in the Wire-tailed Manakin (<i>Pipra filicauda</i>) <u>Bolton PE</u> , <u>Balakrishnan CN</u> , <u>Ryder TB</u> , <u>Moore IT</u> , <u>Horton BM</u>	Hurricane Effects on Birds in Eastern Cuba <u>Vina-Davila N</u> , <u>Rodriguez-Santana F</u> , <u>Plasencia-León C</u> , <u>Segovia-Vega Y</u>	The Role of Citizen Science for Bird Conservation in México <u>Berlanga H</u>	Patterns of Transport and Introduction of Non-native Parrots to the United States <u>Romagosa CM</u>		*Malaria and Chickadees: Testing Parasite-mediated Selection in a Well-studied Avian Hybrid Zone <u>Rice AA</u> , <u>Curry RL</u> , <u>Weckstein JD</u>
1030	Telomeres and the Courtship Behavior of a Lek-breeding Passerine, the Wire-tailed Manakin <u>Vernasco BJ</u> , <u>Dakin R</u> , <u>Majer AD</u> , <u>Haussmann MF</u> , <u>Ryder TB</u> , <u>Moore IT</u>	Long-term Banding Provides Insights to Weather Influenced Survival and Recruitment of Bananaquits <u>Boal CW</u> , <u>Bibles BD</u>	Bird Friendly Cocoa: Linking Industry Sustainability Initiatives with Bird Conservation <u>Bennett RE</u> , <u>Sillett T</u> , <u>Marra PP</u>	Introduced and Naturalized Parrots in the USA: Arrival, Geographic Distribution, and Current Status <u>Uehling JJ</u>	*An Agent-based Model of Winter Foraging and Energetics of North American Waterfowl: Applications of a Decision-support Tool <u>Blenk R</u> , <u>Fogenburg S</u> , <u>Ringelman K</u> , <u>Miller M</u> , <u>Schank J</u> , <u>Eadie J</u>	Tracking Malaria Parasite Infection in Birds Migrating Through Coastal Texas Over a 6-year Period <u>DeBrock SC</u> , <u>Marra PP</u> , <u>Cohen EB</u> , <u>Hamer SA</u>

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7	8	9	10	11	12	13
Migration and Stopover Ecology	Songs and Vocalizations	Evolution and Evolutionary Ecology	Un Poco De Todo Lightning Talks - General Session	Symposium Back to the Future of the Breeding Bird Survey	Disturbance and Restoration Ecology	Genomics
<p>*Versatile Migratory Strategies and Evolutionary Insights Revealed by Tracks of Wild Eurasian Blackcaps</p> <p><u>Van Doren BM</u>, Delmore K, Liedvogel M</p>	<p>Evaluation of an Innovative Audio Technique for Monitoring Wading Bird Colonies</p> <p><u>Larson RC</u>, Gawlik DE</p>	<p>Drivers of the Faster-Z Effect in Australian Grassfinches</p> <p><u>Hooper DM</u>, Price TD, Griffith SC, Andolfatto P</p>	<p>A Comparative Study on the Evolution of Sexual Dichromatism in Muscicapidae (Old World Flycatchers and Chats)</p> <p><u>Zhao M et al.</u></p> <p>-----</p> <p>Grassland Bird Response to Nest Searching with Drones</p> <p><u>Rigley BW et al.</u></p>	<p>The New BBS Strategic Plan</p> <p><u>Pardieck KL</u>, <u>Aponte VI</u></p>	<p>*Survival and Spatial Ecology of the Endangered Yellow-shouldered Blackbird During the Post-fledging Period</p> <p><u>Gonzalez-Crespo JP</u>, Puente-Rolon AR</p>	<p>*Environmental Correlates of Genetic Variation in the Invasive and Largely Panmictic European Starling in North America</p> <p><u>Hofmeister NR</u>, Werner SJ, Lovette IJ</p>
<p>Post-breeding Movements of Two Arctic-breeding Shorebirds</p> <p><u>Aikens M</u>, MacKellar H, Brown G, Smith PA, Nol E</p>	<p>*Does Predator Presence Affect Female Vocalization Rates During Nest Building?</p> <p><u>Sotnychuk NM</u>, White KK, Biro PA, Beckmann C</p>	<p>*Genomic Differentiation and Local Adaptation on a Microgeographic Scale in a Resident Songbird</p> <p><u>Mikles C</u>, Aguillon S, Chan Y, Arcese P, Benham P, Lovette I, Walsh J</p>	<p>Assessing Effects of Habitat Amount vs Configuration on Avian Diversity in Managed Pine Landscapes</p> <p><u>Sklarczyk CA et al.</u></p> <p>-----</p> <p>Soundscape Variation in a Gallery Forest Affected by Fire in the Bojonawi Nature Reserve (Vichada, Colombia)</p> <p><u>Ruiz Guzman S et al.</u></p> <p>-----</p> <p>Genomic Structure of a Three-species Woodpecker Hybrid Zone</p> <p><u>Natola L et al.</u></p>	<p>Visualizing the North American Breeding Bird Survey</p> <p><u>Sauer JR</u>, Hines JE, Link WA</p>		<p>*Low Adaptive and Neutral Genetic Diversity in the Endangered Antioquia Wren</p> <p><u>Zapata D</u>, Rivera-Gutiérrez HF, Parra JL, González-Quevedo C</p>
<p>*Understanding Arctic Tern Migration Strategies to Inform Conservation</p> <p><u>Wong J</u>, Lisovski S, Alisauskas R, English W, Giroux M, Harrison A, Kellett D, Lecomte N, Maftai M, Nagy-MacArthur A, Ronconi R, Smith P</p>	<p>Partitioning of Acoustic Niches by Song Frequency and Timing of Singing in a Breeding Bird Community</p> <p><u>Sblendorio JM</u>, Vonhof MJ, Gill SA</p>	<p>Whole-genome Sequencing Reveals Patterns of Introgression in the Skuas (Stercorariidae)</p> <p><u>Mikkelsen EK</u>, Weir J</p>	<p>A Local Test of Species Distribution Models Derived from Citizen Science Data in Costa Rica</p> <p><u>Velde M et al.</u></p> <p>-----</p> <p>Efficacy of Elemental Contaminant Detection in Developing Feathers from Seven Species of Birds of Prey in Central Florida</p> <p><u>Bouchenot JT et al.</u></p>	<p>Model Selection for the North American Breeding Bird Survey</p> <p><u>Link WA</u>, Sauer JR, Niven DK</p>	<p>*Effects of Volcanic Ash Deposition on Bird Assemblages After an Eruption Event in the Colima Volcano, Mexico</p> <p><u>Sánchez-Ramos L</u>, Navarro-Sigüenza A, Trejo-Vázquez R, Lira-Noriega A</p>	<p>*Genomic Mechanisms Underlying the Introgression of a Sexually Selected Trait in the Red-backed Fairywren</p> <p><u>Khalil S</u>, Walsh J, Enbody ED, Baldassarre DT, Webster MS, Karubian J</p>



SCIENTIFIC PROGRAM

Friday, Morning Session (continued)

Room	1	2	3	4	5	6
Session (EST)	Symposium The Process and Products of Sexual Selection: Ecology, Behavior, Genomics, and Physiology of Manakins	Symposium Birds and Hurricanes: Effects, Responses, Resilience, and Conservation	Symposium The Relevance of Bird Conservation in Broader Land Use, Conservation, and Sustainable Development Efforts	Symposium The Global Rise of Naturalized Parrots: Status, Lessons Learned, and Emerging Issues	Foraging and Food Habits	Avian Diseases and Parasites
1045	The Rise and Fall of a Female Mating Preference for Male Heterozygosity in a Lek Mating System <i>Rivers PR, DuVal EH</i>	Hurricane Maria Alters Hummingbird Pollinator Relationships and Natural Selection on an Introduced Island Plant on Dominica, W. I. <i>Temeles EJ, Bishop GA</i>	Private Finance Mechanisms and Policy Innovations to Restore Degraded Landscapes for Migratory Birds in Latin America <i>Zamora Cristales R, Vergara W</i>	Twenty-five Years of Persistence and Change in the Naturalized Parrots of Southern California <i>Garrett KL</i>	*Using Fecal Metabarcoding to Reconstruct the Winter Diet of a Declining Shorebird Species <i>Johnston EM, Klemmer AJ, Mau RL, Foster JT, Mittelhauser GH, Olsen BJ</i>	Coevolutionary History of Coots, Feather Lice, and Bacterial Endosymbionts <i>Virrueta Herrera S, Sonsthagen SA, Wilson RE, Johnson KP</i>
1100	Does Variation in "Sexually Selected" Traits Reflect Current Opportunity for Sexual Selection Across Species? <i>Vanderbilt CC, Manakin RCN female mate choice working group m, DuVal EH</i>	Hurricane Katrina Impacts the Breeding Bird Community in a Bottomland Hardwood Forest of the Pearl River Basin, Louisiana <i>Brown D, Sherry T</i>	Finding the Right Flight Path to Advance International Migratory Bird Conservation: One Agency's Perspective <i>Stewart RL, Savoie N, Pekarik C</i>	Naturalized Parrots in Asia: The Pet Trade, Issues and Considerations in Urban Environments <i>Lee J, Jain A, Yong D, Chng S, Dingle C, Andersson A</i>		*Tracking Avian Disease Prevalence Across Environmental Gradients in Oklahoma and East Texas <i>Lopez K, Yuri T, Weaver SC, Patten MA</i>
1115	DISCUSSION	Hurricane-induced Fluctuations in a Critically Endangered Population of West Indian Woodpeckers Over Two Decades <i>Akresh ME, Askins RA, King DI, Hayes FE, Barry PE, Hayes WK</i>	Mainstreaming Bird Conservation into Sustainable Development <i>Uppgren A, Anchondo A</i>	*Tale of Two Cities: Competition Impacts Population Trajectories of Urban Yellow-crested Cockatoos <i>Andersson AA, Lee J, Dingle C</i>		*Characterizing Haemosporidian Parasite Prevalence in a Pennsylvania Bird Community <i>Ray S, Galen SC, Weckstein J, Ostrow EN, Dispoto J, Kiziuk L</i>
BREAK						



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7	8	9	10	11	12	13
Migration and Stopover Ecology	Songs and Vocalizations	Evolution and Evolutionary Ecology	Un Poco De Todo Lightning Talks - General Session	Symposium Back to the Future of the Breeding Bird Survey	Disturbance and Restoration Ecology	Genomics
Full-year Association Between Primary Productivity and Migratory Avian Biomass Reveals Winter Refuge in North America's Subtropical Zone <i>Ng W, Fink D, Auer T, Hochachaka WM, La Sorte FA, Dokter AM</i>	*Individual Vocal Distinctiveness and Neighbor-Stranger Discrimination in a Suboscine Bird, the Red-capped Manakin <i>Tagestad JT, Kelley JP, Tarwater CE</i>	*Multiple (but Few) Genes Are Associated with Differences in a Color Trait in the Rapid Capuchino Radiation <i>Estalles MC, Campagna L, Turbek S, Rodríguez-Cajarville MJ, Lovette I, Tubaro PL, Iijtmaer DA</i>	The Evolutionary Riddle of the Sharpbill (<i>Oxyrunchus cristatus</i>), a Unique Neotropical Bird <i>Cuervo A et al.</i>	*Open, Accessible, and Customizable Analysis of North American Breeding Bird Survey Data Using the R Package BbsBayes <i>Edwards BP, Smith AC, Hudson MR, Francis CM, Pardieck KL, Ziolkowski Jr DJ</i>	Passive Acoustic Monitoring as a Successful Survey Method for a Critically Endangered Endemic Cracid, Trinidad Piping-guan <i>Hulme MF, Koulen AF</i>	Genomic Underpinnings of Honest Signaling in Sexually Selected Plumage Traits <i>Sly ND, Henschen AE, Freeman-Gallant CR, Whittingham LA, Dunn PO</i>
Not Just Fat: The Effect of Dietary Antioxidants on Fuel Deposition Rates of Passerines at a Stopover Site <i>Cooper-Mullin C, Carter WA, McWilliams SR</i>		The Effect of Social Interactions and Host Genotype on Preen Gland Microbiome and Preen Oil Composition in Dark-eyed Juncos <i>Slade JW, Greenberg JM, Soini HA, Lambert CR, Novotny MV, Theis KR, Whittaker DJ</i>	DISCUSSION	Bird Population Trends: BBS and eBird <i>Binley AD, Fink D, Smith A, Schuster R, Wilson S, Auer T, Johnston A, Rodewald A, Gutierrez VR, Robinson O, Bennett JR</i>	Assessing the Effects of Salt Marsh Restoration on Breeding Birds in the Northeast, USA <i>Shriver G, Tymkiw E, Elphick C, Olsen B, Kovach A, Cohen J, Ruskin K, Roeder M</i>	Genomic Population Structure of American Wood Storks -- How Many Populations Are There? <i>Ramstad KM, Bayona-Vásquez NJ, Nassif Del Lama S, Lance SL, Bryan AL</i>
		*Species Limits and Population Genetics of the Tepui Vireo <i>Hack MD, Benavides E, Prum RO</i>		Applications of BBS Stop-level Data <i>Niemuth ND, Ziolkowski DJ</i>	Avian Usage Trends of Reclaimed Boreal Forest Habitat in Canada's Oil Sands <i>Hawkes VC, Hentze NT, Gerwing TG</i>	*Population Genomics Elucidates Connectivity of Roseate Terns in North America <i>Byerly PA, Chesser RT, Fleischer RC, Leberg PL</i>
BREAK						





SCIENTIFIC PROGRAM

Friday, Afternoon Session

Room	1	2	3	4	5	6
Session (EST)	Protecting and Restoring Bird Habitat in the Agricultural Matrix: Net Benefits for Birds and Farmers	<u>Symposium</u> Birds and Hurricanes: Effects, Responses, Resilience, and Conservation	<u>Symposium</u> Movement Energetics and Behavioral Strategies to Overcome Constraints on Flight Performance	<u>Symposium</u> The Global Rise of Naturalized Parrots: Status, Lessons Learned, and Emerging Issues	Conservation	Ecotoxicology and Physiology
1400	<p>Introduction</p> <p>-----</p> <p>Ecological Constructs Underlying Landscape Conservation: The Fundamental Role of Coffee Shade Restoration in West-Central Puerto Rico <u>Collazo JA et al.</u></p> <p>-----</p> <p>Woody Field Edge Effects on Bird Communities in Michigan Blueberry Fields <u>Hannay M et al.</u></p>	<p>Differential Hurricane Effects on Two Wild Puerto Rican Parrot Populations on Puerto Rico and Implications for Conservation and Management <u>White TH</u></p>	<p>Against the Wind: Accelerometry Demonstrates Finescale Tactics for Changing Windscares <u>Elliott K</u></p>	<p>*Urban and Endangered: The Paradox of Endangered Species in Completely Anthropogenic Habitats <u>Kiacz S, Brightsmith DJ</u></p>	<p>Coastal Marsh Birds: Continued Decline or the Next Conservation Success Story <u>Taillie PJ</u></p>	<p>*Geographic Variation of Mercury in Breeding Tidal Marsh Sparrows of the Northeastern United States <u>Sayers CJ, Roeder MR, Forrette L, Roche D, Dupont GL, Apgar S, Kocek AR, Cook AM, Shriver G, Elphick CS, Olsen B, Bonter DN</u></p>
1415	<p>Shifts in Functional Groups of Birds Across Varying Agricultural Landscapes <u>Garcia K et al.</u></p> <p>-----</p> <p>Conserving Birds by Managing Ecosystem Services on Coffee Farms <u>Martínez-Salinas A et al.</u></p> <p>-----</p> <p>Bird Trophic Effects on Corn and Soybean Crops Within a Mixed Grassland and Agricultural Landscape Garfinkel MB et al.</p>	<p>Survival of Radio-Tagged Captive-reared Hispaniolan Parrots in a Protected Area Through and After Hurricane Georges in the Dominican Republic <u>Collazo JA, White TH, Vilella FJ, Guerrero S</u></p>	<p>*Energy Landscapes Determine Winter Strategies and Distribution of an Arctic Seabird <u>Patterson A, Gilchrist G, Fifield D, Hedd A, Robertson G, Elliott K</u></p>	<p>Monk Parakeets as a Globally Naturalized Species <u>Calzada Preston CE</u></p>	<p>Maladaptive Nest Site Selection and Reduced Nest Survival in Female Sage Grouse Following Wildfire <u>Delehanty DJ, Dudley IF, Coates PS</u></p>	<p>*Comparison of Heavy Metal Exposure in Resident and Migratory Raptors in Mexico <u>Campbell ML, Von Osten JR, Gutiérrez EA, Inzunza ER</u></p>
1430	<p>Landscape Cover and Connectivity Mediates Avian Survival and Natural Pest Control in an Intensive Agroecosystem <u>Heath SK et al.</u></p> <p>-----</p> <p>Landscape Context Mediates the Physiological Stress Response of Birds to Farmland Diversification <u>Latimer CE et al.</u></p> <p>-----</p> <p>Influence of Uncultivated Habitat on Barn Owl Nest Box Occupancy, Hunting Habitat Selection, and Rodent Removal in Winegrape Vineyards <u>Johnson MD et al.</u></p>	<p>Puerto Rican Sharp-shinned Hawk: Living on the Edge <u>Thorstrom R, Gallardo JC, Murillo M, Weaver H, Hudson T</u></p>	<p>*From G to Joules: Measuring Energy Expenditure of Black-legged Kittiwakes with GPS-accelerometry <u>Tremblay F, Whelan S, Shepard E, Hatch S, Elliott K</u></p>	<p>Genetics of Invasive Parrots: Insights into Origins, Invasion Patterns and Adaptation <u>Smith-Vidaurre G, Russello MA, Wright TF</u></p>		<p>Perfluorooctane Sulfonate (PFOS) Concentrations in Birds Around the World <u>Bonisoli-Alquati A, Flamenco RD</u></p>

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7	8	9	10	11	12
Birds and Agriculture	Songs and Vocalizations	Emerging Tools	Migration and Stopover Ecology	Genomics\Molecular Ecology	Symposium Back to the Future of the Breeding Bird Survey
<p>*Integrated Open Canopy System in Coffee Crops (<i>Coffea arabica</i>) as a Conservation Alternative for Nearctic-Neotropical Migrants and Resident Birds in Yoro, Honduras</p> <p><u>Murillo D</u>, Alvarado D, Rodriguez F, King D</p>	<p>Nestlings Beg with Higher Voices in Noise</p> <p><u>Dharmasiri ME</u>, Barber CA, Horn AG</p>	<p>Accurate Drone-based Nest Counts of Five Colonial Marshbird Species Using a Dual Visible-thermal Camera Approach</p> <p><u>McKellar AE</u>, Shephard NG, Chabot D</p>		<p>*Landscape Genomics of Desert Birds Reveals that Multiple Mechanisms Cause Heterogeneity Across Chromosomes and Species</p> <p><u>Provost KL</u>, Shue S, Forcellati M, Smith BT</p>	<p>Structured Bird Monitoring in Latin America: Applications of PROALAS</p> <p><u>Ruiz-Gutierrez V</u>, Lello-Smith A</p>
<p>Migratory Bird Use of Oil Palm Plantations in Tabasco, Mexico</p> <p><u>Oliveira SL</u>, Flaspohler DJ, Wolfe JD, Knowlton JL</p>	<p>*Vocal Behavior and Microgeographical Variation in Song Types in a Neotropical Songbird</p> <p><u>Rodríguez-Fuentes J</u>, Cadena CD, Avendaño JE</p>	<p>An Overview of the Use of Drone Technology for the Study and Conservation of Birds</p> <p><u>Bird DM</u></p>	<p>Migration Patterns of Wild vs Captive-bred Asian Houbara Bustards, <i>Chlamydotis macqueenii</i></p> <p><u>Diele-Viegas LM</u>, Hingrat Y, Calabrese J, Fagan WF</p>	<p>*Population History and Natural Selection Shape the Genomic Landscape of Diversity in Two Codistributed North American Woodpeckers</p> <p><u>Rocha Moreira L</u>, Klicka J, Smith BT</p>	<p>Improving Northern Coverage of the BBS Using New Technologies and Survey Design</p> <p><u>Hache S</u>, Van Wilgenburg S, Smith AC, <u>Iles D</u></p>
<p>*Nonideal Nest Box Selection in a Tree Swallow Population Breeding in Farmlands</p> <p><u>Courtois É</u>, Garant D, Pelletier F, Bélisle M</p>	<p>The Role of Learning, Acoustic Similarity and Phylogenetic Relatedness in the Recognition of Distress Calls</p> <p><u>Sandoval L</u>, Wu Y, Petrosky A</p>	<p>*Development of a Bird Damage Management System for Agriculture Using UAVs Incorporated with Bird Psychology</p> <p><u>Wang Z</u>, Griffin AS, Lucas A, Wong K</p>	<p>*Assigning Migratory Behavioral States to Satellite-derived Tracking Data of American Woodcock</p> <p><u>Fish AC</u>, Roth AM, Blomberg EJ</p>	<p>*Investigating Dietary Niche Partitioning in Morphologically Similar Hummingbirds Using Metabarcoding</p> <p><u>Spence AR</u>, Wilson Rankin EE, Tingley MW</p>	<p>Evolving the BBS Field Protocol and Estimates for Tomorrow's Conservation Needs</p> <p><u>Smith AC</u>, Handel C, Gahbauer MA, Nichols J, Ruiz Gutierrez V, Thogmartin WE</p>



SCIENTIFIC PROGRAM

Friday, Afternoon Session (continued)

Room	1	2	3	4	5	6
Session (EST)	Protecting and Restoring Bird Habitat in the Agricultural Matrix: Net Benefits for Birds and Farmers	<u>Symposium</u> Birds and Hurricanes: Effects, Responses, Resilience, and Conservation	<u>Symposium</u> Movement Energetics and Behavioral Strategies to Overcome Constraints on Flight Performance	<u>Symposium</u> The Global Rise of Naturalized Parrots: Status, Lessons Learned, and Emerging Issues	Conservation	Ecotoxicology and Physiology
1445	Is It a Trap? Raptors, Rodenticides, and Rain in California's Agroecosystems <i>Kross SM et al.</i> ----- Conserving Natural Habitat Around Farms Limits Bird Disservices <i>Olimpi EM et al.</i>	The Puerto Rican Sharp-shinned Hawk: Management Activities for Species Recovery and Conservation <i>Weaver HC, Thorstrom R, Murillo M, Gallardo J, Grayum J, Hudson T</i>	*Energy Consumption During Migratory Flight Formation <i>Rewald O, Ruf T, Perinot E, Fritz J, Fusani L, Voelkl B, Vyssotski A</i>	Using Genomics and Citizen Science to Investigate Hybridization of Parrots in Southern California <i>Maley JM, Schedl ME, Durham B, Tsai WL, Terrill RS, Garrett K, McCormack JE</i>	*Seasonal Dynamics of Flock Interaction Networks in Lowland Amazonian Rainforest <i>Rutt CL, Stouffer PC</i>	Comparison of Organochlorine and PAHs Residues in Terns Eggs from Two Natural Protected Areas in the Gulf of Mexico <i>Vallarino-Moncada A, Rendon J</i>
1500	DISCUSSION	Operation Feeder Rescue: A Multi-island Bird feeding Effort by Islanders to Provision Birds in the Aftermath of Hurricanes Irma and Maria <i>Sorenson L</i>	Pump it Up: How Diet and Body Condition Affect Migratory Movements of Shorebirds and Songbirds <i>McWilliams SR, Smith A, Cooper-Mullin C, Graham C</i>	Disease Surveillance and Risk Assessment of Urban Parrot Species <i>Latas PJ</i>	Nest Management Increase Breeding Success in an Endangered Grassland Bird <i>Pucheta FM, Pereda IM, Di Giacomo AS</i>	*Assessing the Effects of Hormone Implants on Female Tree Swallow Mating Behavior and the Cloacal Microbiome <i>Hernandez J, Belden L, Moore I</i>
1515		DISCUSSION	Using Heart Rate as a Proxy of Metabolic Rate to Examine the Foraging Energetics of Arctic Seabirds in a Changing Climate <i>Choy ES, Whelan S, Green J, Gilchrist G, Elliott K</i>	Are Naturalized Parrots Priority Invasive Species Warranting Control? <i>Brightsmith DJ, Kiacz S</i>	*Post-hurricane María Population Distribution and Abundance of the Elf-woods Warbler (<i>Setophaga angelae</i>) in the Luquillo Experimental Forest <i>Fidalgo-DeSouza LL, Cruz-Mendoza AC, Rivera-Milán FF, Ilse J, Wunderle, Jr JM</i>	
BREAK						



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7	8	9	10	11	12
Birds and Agriculture	Songs and Vocalizations	Emerging Tools	Migration and Stopover Ecology	Genomics\Molecular Ecology	Symposium Back to the Future of the Breeding Bird Survey
Temporally Dynamic Resource Use of Overwintering Waterbirds During an Agricultural Cycle in Southern Spain <i>van rees CB, Aragonés D, Bouten W, Thaxter C, Ross-Smith VH, Steinen E, Bustamante J, Green AJ</i>	Latitudinal Variation in Song Complexity in the Blue-black Grassquit <i>Silva-Jr EF, Diniz P, Macedo RH</i>	Nature's Palette: An Open-access Digital Repository of Spectral Data <i>Bitton P, Akhter R, Farrell A, Talaeizad A, Fiech A</i>	Effects of Disturbance and Stewardship on Least Tern Productivity in Coastal Mississippi <i>Darrah A</i>	The Genomic Landscape of Admixture and Drivers of Reproductive Isolation Between Bullock's and Baltimore Orioles <i>Walsh J, Billerman SM, Rohwer VG, Butcher BG, Lovette IJ</i>	Importance of the BBS to the Future of Avian Conservation in North America <i>Rosenberg KV</i>
Bicknell's Thrush Habitat Use on Commercial Forests in Maine <i>Wilson KL, Roth AM</i>	Characterization of the Ovenbird Flight Song: Plasticity in Output and Composition <i>Foote JR, Thompson MJ, Pearse K, Paul N</i>	Single but Where Do They Mingle: Tracking Daily Extra-territorial Movements in a Cooperative Breeder <i>Suh Y, Sclater V, Bowman R, Fitzpatrick JW</i>	*Age-related Differences in the Distribution of Migrating Landbirds on the Northern Coast of the Gulf of Mexico <i>Calderon LN, Zenzal TJ, Barrow WC, Wilson B, Buler JJ</i>	Genomic Architecture Shapes Phylogeographic Population Structure Across the Genome of the Brown Creeper (<i>Certhia americana</i>) <i>Manthey JD, Klicka J, Spellman GM</i>	DISCUSSION
	Yellow-breasted Chats from Different Subpopulations Respond with Greater Aggression to Local Than Foreign Calls: A Playback Experiment <i>Chappell ME, Bonter DN</i>		*Global Movement Patterns of Short-eared Owls <i>Wilhite CJ, Cotin J, Idle JL, Luther LR, Price MR</i>		





SCIENTIFIC PROGRAM

Saturday, Morning Session

Room	1	2	3	4
Session (EST)	Symposium Advancing the Integration of Behavior into Songbird Conservation and Management	Symposium Dynamics of Tropical Bird Communities and Populations in the West Indies and Beyond	Symposium Birds Connect Our World: Using Tracking Technology to Inform Conservation Action	Golden Auks - Best Paper I Ever Wrote
1000	Static Organisms in a Changing System? <i>Proppe DS</i>	Top-down vs. Bottom-up Regulation and Island Birds <i>Terborgh JW</i>	World Migratory Bird Day Conservation Theme Joins Communities for Conservation <i>Bonfield S, Matta ME</i>	The Best Paper I Almost Never Wrote <i>Beissinger SR</i> ----- My Favorite Figure/Paper <i>Benkman CW</i> ----- Golden Auk (en) Lightning Talk - Jeff Brawn <i>Brawn JD</i>
1015	Attracting Conspecifics and Manipulating Interspecific Interactions to Achieve Conservation Goals <i>Ward MP, Buxton V, Enos J, MacDonald S, Anich N, Sperry J</i>		Improving Our Understanding of Migratory Bird Distributions in the Americas by Informing a Spatially Explicit Bayesian Network Model with Geolocator Data from Two Tyrannus Species <i>Jahn AE, MacPherson MP</i>	Interspecific Competition Between Great and Blue Tit <i>Dhondt AA</i> ----- Surprised and Delighted <i>Ketterson ED</i> ----- Metapopulation Dynamics of the Globally Endangered Florida Scrub-Jay <i>Fitzpatrick JW</i>
1030	Sexual Selection and Mating Systems <i>Reudink M, Otter K, Foote J, McKellar A, Flood N</i>	Long-term Population and Community Dynamics in the Dry Forest of Guánica, Puerto Rico <i>Toms JD, Faaborg J, Arendt WJ</i>	*Linking Patterns of Change in Migratory Songbirds at Two Long-term Bird Banding Stations <i>Lindsay AM, DeGroot LW, Shieldcastle MC, Streby HM</i>	Clinal Character Variation in Birds is Partly Non Genetic <i>James FC</i> ----- Gracias a La Vida Que Me Ha Dado Tanto <i>McDonald DB</i> ----- Golden Auks Lightning Talks: My Favorite Paper <i>Robinson SK.</i>
1045	Sociality and Antipredator Behavior <i>Beckman AK</i>	Understory Community Change Over Three Decades in Undisturbed Amazonian Rainforest: Frugivores Win, Ground Insectivores Lose <i>Stouffer PC, Jirinec V, Rutt CL, Hernandez-Palma A, Johnson EL, Powell LL, Wolfe JD, Lovejoy TE, Bierregaard RO</i>	A Tri-National Partnerships: Migratory Connectivity and Western Forest Bird Conservation <i>Alexander JD, Contreras S, Morales LE, Bishop CA, Gillespie CE, Mancuso K, Rousseau JE, Rockwell SM, Betts M, Bonfield S, Easton WE, Butcher GS</i>	The Discovery of Variable Rates of Genomic Evolution in Birds (And, Thus, Most Everything Else) <i>Sheldon FH</i> ----- My Most Important Paper: Tropical Flycatcher Comparative Dietary Ecology (Ecological Monographs, 1984) <i>Sherry TW</i> ----- Start-to-Finish Tracking of Migratory Songbirds: How it All Started <i>Stutchbury B</i>

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5	6	7	8	9
Human Dimensions	Conservation	Systematics and Taxonomy	Physiology	Symposium Making the Most of Disparate Data to Map Opportunities for Migratory Bird Conservation
Predicting Pasture and Forest Landowner Intention to Create Early Successional Habitat <i>Bulluck LP, Coovert H, Valdez R, Martin D</i>	Is Severe Fire Good or Bad for Spotted Owls? <i>Jones G, Gutierrez R, Peery MZ</i>	Birds Rarely Hybridize: A Citizen Science Approach to Estimating Rates of Hybridization in the Wild <i>Hill GE, Justyn NM, Callaghan CT</i>	Regularly-drinking Desert Birds Have Greater Evaporative Cooling Capacity and Higher Heat Tolerance Limits Than Non-drinking Species <i>Freeman MT, Czenze ZJ, Kemp R, Smit B, van Jaarsveld B, Wolf BO, Mckechnie AE</i>	Integrating Migratory Bird Data for Conservation: What Are the Challenges and Opportunities? <i>Deppe J, Seavy NE, Deluca WV</i>
Birds, Windows and Trees Are a Deadly Combination: An Investigation of Bird Window Collisions and Mitigation Effectiveness on a University Campus <i>Sullivan K, Sagers R</i>	Reintroduction Success of Yellow Cardinals (<i>Gubernatrix cristata</i>) Recovered from Illegal Pet Trade in Argentina <i>Atencio M, Dominguez M, Scardamaglia RC, Reboreda JC, Mahler B</i>	Systematics, Species Delimitation and Mitochondrial Introgression in the Narcissus Flycatcher Complex <i>Mays HL, Nishiumi I, McKay BD, Mauck W</i>	Oxidative Damage Increases with Both Degree of Simulated Bacterial Infection and Ectoparasite Load in Tree Swallow Nestlings <i>Butler MW, Stierhoff EN, Carpenetti JM, Adesso AM, Knutie SA</i>	*Linking Movement Ecology, Body Condition, and Physiology to Better Understand Stopover Ecology Along the Gulf Coast <i>Gutierrez Ramirez M, DeSimone JG, Griego MS, Elowe CR, Gerson AR</i>
The Use of Birds as Bioindicators to Monitor the Impact of Recreational Activities in the Northeastern Ecological Corridor Reserve and Seven Seas Reserve in Puerto Rico <i>Font-Nicole EE</i>	Tropical Forest Fragmentation and Isolation: Is Community Decay a Random Process? <i>Luther DA, Cooper J, Wolfe J, Bierregaard R, Gonzalez A, Lovejoy TE</i>	Phylogenetic Relationships, Population Structure, and Species Limits Within the Sharp-shinned Hawk Complex <i>Catanach TA, Halley MR, Palhano S, Biancalana R, Johnson JA, Thorstrom R, Gallardo J, Weckstein JD</i>	Bird Sleep and Torpor: A Continuous Physiological and Genetic Spectrum? <i>Shankar A, Cisneros IN, Thompson S, Graham CH, Powers DR</i>	*Niche Dynamics and Ecological Drivers of Migration in an Insectivorous Owl <i>Yanco SW, Linkhart BD, Marra PP, Wunder MB</i>
US Imperiled Species Are Most Vulnerable to Habitat Loss on Private Lands <i>Eichenwald AJ, Evans MJ, Malcom JW</i>	Reproductive Success and Parental Care of Birds Colonizing a Tropic Restoration Forest <i>Cummins GC, Paxton EH, Theimer TC</i>	Molecular Phylogeny of New World Swifts Based on Next Generation DNA Sequencing of Ultraconserved Elements (UCEs) <i>Biancalana RN, Palhano S, Catanach TA, Halley MR, Chesser RT, Weckstein JD, Aleixo A</i>	Performance Response of a Cold-adapted Seabird to a Rapidly Warming Arctic <i>Choy ES, O'Connor R, Gaston T, Vezina F, Gilchrist G, Elliott KH</i>	Integrating Monitoring, Community Participation and Landscape Conservation for Migratory Bird Conservation: Lessons from Belize <i>Kay EE, Waight-Cho IA, Ash AA</i>



SCIENTIFIC PROGRAM

Saturday, Morning Session (continued)

Room	1	2	3	4
Session (EST)	Symposium Advancing the Integration of Behavior into Songbird Conservation and Management	Symposium Dynamics of Tropical Bird Communities and Populations in the West Indies and Beyond	Symposium Birds Connect Our World: Using Tracking Technology to Inform Conservation Action	Golden Auks - Best Paper I Ever Wrote
1100	Human Impacts on Avian Communication: Breaking Down the Source and Structure of Anthropogenic Noise Pollution to Inform Conservation Strategies <i>Grabarczyk EE, Potvin DA, Gill SA</i>	Further Enigmatic Declines and No Recovery: Two Decades of Change in Bird Populations at Tiputini Biodiversity Station, Ecuador <i>Blake JG, Loiselle BA</i>	Using Citizen Science to Track Hummingbird Migration for Conservation <i>Bonfield S, Sheehan N, Loera J, Souza D</i>	The Best Paper I Ever Wrote <i>Sullivan KA et al.</i> ----- The Best Paper I Ever Wrote <i>Wheelwright NT et al.</i> ----- My Best Paper is the One I Just Published <i>Winkler DW et al.</i>
1115	Using Tree Preferences of Insectivorous Birds to Inform Plant Selection and Restoration in Human-dominated Landscapes <i>Narango DL, Brandao M, Marra PP, Rice RA, Snyder K, Tallamy DW</i>	Revisiting the Structure and Organization of a Peruvian Amazonian Forest Bird Community After Three Decades <i>Martinez AE, Ponciano J, Valqui T, Carnes B, Fitzpatrick J, Gomez J, Parra E, Socolar J, Terborgh J, Robinson S</i>	Exploring Population Dispersal in Wintering Grounds: Long-term Data Analysis Suggests Low Body Condition and Short Theoretical Flights of Northern Waterthrush Crossing Portachuelo Pass During Fall Migration at Northern Venezuela <i>Matta ME, Lentino M, Giner S, De Nobrega R</i>	Global Nest Webs: The Challenge and the Fun of Scaling Up Your Ecological Questions <i>Martin K</i>
BREAK				



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5	6	7	8	9
Human Dimensions	Conservation	Systematics and Taxonomy	Physiology	Symposium Making the Most of Disparate Data to Map Opportunities for Migratory Bird Conservation
Flamingos, Lithium Mining, and the Limits of Sustainability <i>Gutiérrez JS, Moore JN, Donnelly JP, Dorador C, Navedo JG, Senner NR</i>				Migration Patterns of Upland Sandpipers and Opportunities for Conservation <i>Hill JM, Sandercock BK, Renfrew RB</i>
Comparison of Psittacine Rehabilitation and Release Facilities and Implications for Conservation Planning <i>Latas PJ, Durham B, Buxton N</i>				Opening the Black Box of Neotropical Stopover Regions Through a Multi-scale Research Approach <i>Bayly NJ, Gómez C, Rosenberg KV, Hobson KA</i>
BREAK				





SCIENTIFIC PROGRAM

Saturday, Afternoon Session

Room	1	2	3	4
Session (EST)	Symposium Key Biodiversity Areas: Conserving the Most Critical Sites for Birds	Symposium Dynamics of Tropical Bird Communities and Populations in the West Indies and Beyond	Early Profession Mini-Talks	Urban Ecology
1400	Alliance for Zero Extinction (AZE) Sites: Progress in Bird Conservation in the Subset of KBAs on the Brink of Extinction <i>Upgren A</i>	Post-hurricane Assessment of Abundance and Diversity of Land Birds in Coastal Dry Forest at Jobos Bay Salinas, Puerto Rico <i>Schaffner FC, Rodríguez I, Pérez IJ, Colón M</i>	Introduction et al. ----- <i>Acevedo-Charry</i> <i>Acevedo-Charry O et al.</i> ----- <i>Stervander</i> <i>Stervander J et al.</i>	Building for Birds: A New Online Design Tool to Assess the Impact of Development <i>Hostetler ME, Archer J</i>
1415	IBAs and KBAs in Canada: Bridging the Gap for Birds <i>Couturier AR, Bichel A, Evans D, Marquez S</i>	Are Populations of Tropical Birds Really Regulated by Density Dependence? <i>Brawn JD, Pollock H, Benson TJ</i>	<i>Buckner</i> <i>Buckner J et al.</i> ----- <i>Linck</i> <i>Linck E et al.</i> ----- <i>Field</i> <i>Field DJ et al.</i>	Urban Food Subsidies Reduce Natural Food Limitations and Reproductive Costs for a Wetland Bird <i>Evans BA, Gawlik DE</i>
1430	Mapping of Key Conservation Areas in the Era of Big Data: Exploring eBird to Identify Important Bird Areas and Key Biodiversity Areas <i>Wu JX, Broadhead T, Wilsey C</i>	Alterations in Species Interactions and Population Ecology Across a Rainfall-fragmentation Gradient in Panama <i>Tarwater CE, Maddox J, Foster JT, Gomez Murillo L, Castano M, Mau RL, Kelley J</i>	<i>Narango</i> <i>Narango D et al.</i> ----- <i>Somveille</i> <i>Somveille M et al.</i> ----- <i>Ferraro</i> <i>Ferraro MM et al.</i>	The Importance of Street Trees to Urban Avifauna <i>Wood EM, Esaian S</i>
1445	AZE in the Dominican Republic: Conservation Status, Threats and Initiatives for Improvement <i>Brocca J</i>	Ecomorphology of Neotropical Bird Wings <i>Ruelas Inzunza E</i>	<i>Taillie</i> <i>Taillie PJ et al.</i> ----- <i>Campbell</i> <i>Campbell M et al.</i> ----- <i>Campos Cerqueira Junior</i> <i>Campos Cerqueira Junior M et al.</i>	No Evidence for the Lombard Effect: Black-collared Starlings Sing at Higher Frequency but Not Higher Amplitude in Urban Noise <i>Dingle C, Wong K</i>
1500	The Critical Ecosystem Partnership Fund in the Caribbean Islands Biodiversity Hotspot -- Programmatic Highlights and Future Investment Plans <i>Zador M</i>	DISCUSSION	<i>Pageau</i> <i>Pageau C et al.</i> ----- <i>Harvey</i> <i>Harvey M et al.</i>	Do Weekly Cycles of Human Disturbance Affect the Behavior of an Urban Adapter Bird? <i>Diniz P, Silva-Jr EF, Macedo RH</i>
BREAK				

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5	6	7	8	9
Tropical Ecology and Disturbance	Biogeography	Climate	Symposium Making the Most of Disparate Data to Map Opportunities for Migratory Bird Conservation	Outreach, Management, and Policy
Local Forest Type Associations Predict Responses to Pasture Restoration but Not Fire for Tropical Resident Birds of the Maya Biosphere Reserve <u>Lello-Smith AM</u> , Rodewald AD, Ruiz-Gutierrez V	The Historical Biogeography of Caribbean Birds Based on ADNA from Fossils <u>Oswald JA</u> , LeFebvre MJ, Stucky BJ, Guralnick RP, Steadman DW, Allen JM	A Disconnect Between Upslope Shifts and Climate Change in an Afrotropical Bird Community <u>Neate-Clegg MH</u> , O'Brien TG, Mulindahabi F, Sekercioglu CH	Mobilizing Motus: Strategies for Maximizing Efficacy for Conservation Science <u>Mackenzie SA</u> , Jardine C, Ethier D, Lepage D	Community Perspectives -- Achieving More Equitable and Inclusive Research and Programming in Ornithology and Conservation <u>Lopez Fretts M</u> , <u>Gonzalez JG</u> , Purcell KA, Alvarez C, Flores J, Foli YA, and Annoni J
Prolonged Indirect Cascading Effects of Hurricane Disturbance on Reproduction of a Threatened, Endemic Amazon Parrot <u>Renton K</u> , Salinas-Melgoza A, Maya-Elizarrarás E, Rueda-Hernández RA, Ruiz-Hernández V	Crossing the Ocean: Gene Flow Between Sedentary Island Bird Populations <u>Gyllenhaal EF</u> , Mapel XM, McCullough JM, Moyle RG, Andersen MJ	The Influence of the North American Monsoon on Breeding Abundance of Western Molt Migrants <u>Dougherty PJ</u> , Carling MD	USAvian: A Tool for Enhancing Connections Among and Within the Bird Management, Conservation and Research Communities <u>Burnett JL</u> , Burgio KR, Fournier AM	Participatory Bird Census: A Post Hurricane Maria Citizen Science Program in San Juan Bay Estuary Watershed Ecosystems <u>Avilés-Santiago CE</u> , Nieves-Rodríguez E
Bird Diversity Recovery During Secondary Forest Succession in the Tropics: A Meta-analysis <u>Acevedo-Charry O</u> , Aide T	Phylogeography of Albertine Rift Birds, with Implications for Future Conservation <u>Cooper JC</u> , Engel JI, Kahindo C, Marks BD, Bates JM	Teasing Apart a Century of Land-use and Climate-change Impacts on Winter Bird Distributions <u>Meehan TD</u> , <u>Saunders SP</u> , Michel NL, Bateman BL, Deppe JL, Grand J, LeBaron GS, Taylor L, Westerkam H, Wu JX, Wilsey CB	Challenges of Managing and Integrating Large, Disparate Data Sets for Conservation Applications <u>Jimenez M</u> , Witko C, Knight E, Taylor L, Smith M	The Value of Equitable Co-creation of Bird Appreciation and Conservation Programs Focused on Culture, Pride and Participatory Science with Communities of the Peruvian Amazon <u>Purcell K</u> , López-Fretts M, Alvarez C, Flores J
Vocal Duetting in a Resident Subspecies of Grace's Warbler (<i>Setophaga graciae decora</i>) in Belize <u>Staicer CA</u>	The Role of Eggshell Pigments in Signaling and Thermoregulation <u>Hanley D</u> , Wisocki PA, Kennelly P, Rojas Rivera I, Cassey P, Burkey ML, Hauber ME	Survival by Degrees: The Vulnerabilities and Risks of Climate Change for North American Birds <u>Wilsey C</u> , Bateman B, Taylor L, Wu J, LeBaron G	Integrating Abundance and Tracking Data to Identify Important Places for a Boreal-breeding Migratory Songbird <u>DeLuca WV</u> , Meehan TD, Saunders SP, Micheal N, Deppe JL	
	Differences in the Composition of Species of Water and Land Birds Between the Landscape Units of the Venezuelan Llanos <u>ArangurenshawAlvarez JE</u>	Can Coastal Restoration Projects Preserve Bald Eagle (<i>Haliaeetus leucocephalus</i>) Breeding Habitat In Coastal Louisiana? <u>Percy KL</u> , Michel NL, Nakashima L, Johnson EI	A Data-driven Migratory Connectivity Model for Predicting Bird Migration Across the Americas <u>Somveille M</u> , Ruegg K	
BREAK				



Island treasures: Lessons learned from 30 years of avian research, education, and conservation

Organizers: Lisa Sorenson, Anilleno Davis, and Adrienne Tossas

Tuesday, 11 August (2:00–3:30 pm ET)

Wednesday, 12 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

This symposium will share results and success stories from case studies and recent avian research, monitoring and conservation projects in the Caribbean, including lessons learned and highlighting the value of a regional approach, partnerships, and networking across a highly diverse region.

Scaling up patterns of avian phenological change

Organizers: Morgan Tingley and Casey Youngflesh

Tuesday, 11 August (2:00–3:30 pm ET)

This symposium seeks to quantify changing patterns in the timing of migration and reproduction, focusing on efforts to scale-up ecological research to better understand the taxonomic, spatial, and temporal components of phenological change in birds and how this maps onto changes in the physical environment and at other trophic levels.

Urban bird conservation and global change: Celebrating 50 years of bird research in, of, and for cities

Organizers: Susannah Lerman, Amanda Rodewald, Christopher Lepczyk

Tuesday, 11 August (2:00–3:30 pm ET)

Wednesday, 12 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

Celebrating 50 years of urban bird research and conservation in cities and suburbs.

What's on the menu? Multiple approaches to studying avian diet

Organizers: Allison Snider and Sabrina Taylor

Tuesday, 11 August (2:00–3:30 pm ET)

This symposium focuses on exploring the use of different techniques to understand avian diet, with three main goals: 1) to gather basic ecological data on species, 2) understand and address the effects of global and anthropogenic changes on birds, and 3) inform conservation efforts.

Predicting bird distributions under global change

Organizer: Maggie MacPherson

Wednesday, 12 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

To understand the tools being used to infer how global change affects bird distributions, this symposium showcases the diversity of logistical, theoretical and temporal perspectives being used to improve our understanding of avian ranges responding to global change. Thursday

Understanding citizen scientists in service of managing and conserving birds: Attitudes, motivations, behavior, and identity

Organizer: Tina Phillips

Wednesday, 12 August (10:00–11:30 am ET)

We present a series of ornithological case studies using citizen science to better understand how birder attitudes, motivations, and behaviors can inform conservation and management of birds at varying scales.



Contemporary insights into evolutionary processes using large-scale comparative analyses of avian behavior

Organizers: Gavin Leighton and Russell Ligon

Wednesday, 12 August (2:00–3:30 pm ET)

Thursday, 13 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

Broad comparative insight into the evolution of bird behavior.

Studies of avian radiations in the 21st century

Organizers: Martin Stervander, Scott Taylor, David Toews, and Leonardo Campagna

Wednesday, 12 August (2:00–3:30 pm ET)

Thursday, 13 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

Our symposium will highlight advances in studies of avian radiations, with perspectives on behavior, ecology, and genomics, highlighting how recent research and new techniques are improving our understanding of avian speciation, and how these findings speak to avian evolution in an age of rapid environmental change.

Global concerns and strategies for parrot populations

Organizers: Christine Dahlin and Timothy Wright

Thursday, 13 August (10:00–11:30 am ET)

Parrots are among the most threatened of avian taxa, and this symposium will highlight conservation issues of particular relevance to the taxa with topics including communication, genetics, population surveys and more.

Leveraging museum collections to track avian population responses to anthropogenic change

Organizers: Phred Benham and Shane Dubay

Thursday, 13 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

This symposium will explore the diversity of ways that natural history collections are being used to understand avian responses to anthropogenic change; and how these specimen resources can most effectively contribute to addressing conservation issues.

The process and products of sexual selection: ecology, behavior, genomics, and physiology of manakins

Organizers: Alice Boyle and Elsie Shogren

Thursday, 13 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

Friday, 14 August (10:00–11:30 am ET)

Diverse perspectives that integrate multiple subdisciplines of ornithology to collectively answer core questions about sexual selection in a charismatic family of Neotropical birds.

100-year anniversary of bird banding lab: A century supporting and advancing management and conservation science

Organizer: Antonio Celis-Murillo

Thursday, 13 August (2:00–3:30 pm ET)

This symposium will provide an overview of the Bird Banding Laboratory's key role of supporting and advancing management and conservation science for the first 100 years and how it plans to continue its program over the next century, as technology advances and new research and management needs develop.



Birds and hurricanes: effects, responses, resilience, and conservation

Organizers: Joe Wunderle and Tomas Carlo-Joglar

Thursday, 13 August (2:00–3:30 pm ET)

Friday, 14 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

This symposium focuses on hurricane effects on birds and their forest resources as well as avian responses to these effects and conservation implications.

Back to the future of the breeding bird survey

Organizers: Veronica Aponte and Keith Pardieck

Friday, 14 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

With the new BBS Strategic Plan fresh off the press and guiding the evolution of this long-term, continental monitoring program, this symposium will showcase active areas of research designed to expand the utility of the BBS for avian conservation and management.

The global rise of naturalized parrots: status, lessons learned, and emerging issues

Organizers: Donald Brightsmith, Stephen Pruett-Jones

Friday, 14 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

This symposium will bring together leaders in the study of naturalized parrots to share perspectives on the global status, ecology, genetics, impacts, and management of this widely distributed group.

The relevance of bird conservation in broader land use, conservation, and sustainable development efforts

Organizers: Greg Butcher and Amy Upgren, with Introduction by Dr. Thomas Lovejoy

Friday, 14 August (10:00–11:30 am ET)

This symposium will provide strategies for advancing bird conservation integration into broader land use, conservation, and sustainable development efforts in the Americas.

Movement energetics and behavioral strategies to overcome constraints on flight performance

Organizers: Ivan Maggini and Emily Choy

Friday, 14 August (2:00–3:30 pm ET)

We will present the most recent advances in the studies of movement energetics in different life-history and environmental contexts.

Advancing the integration of behavior into songbird conservation and management

Organizers: Darren Proppe and Amanda Beckman

Saturday, 15 August (10:00–11:30 am ET)

This session will explore our understanding of songbird behavior, ranging from individual decision-making to population-level patterns, with a strong focus on applying these concepts to management and conservation in our rapidly changing environment.



Birds connect our world: Using tracking technology to inform conservation action

Organizers: Miguel Matta, Susan Bonfield, and Barbara Pazos

Saturday, 15 August (10:00–11:30 am ET)

The 2020 World Migratory Bird Day conservation theme, Birds Connect Our World, explores global- and fine-scale migratory routes, following this year's selected bird species in their journeys, examining the ways we track their migrations and threats they face along the way, and highlighting communities that are working to protect them.

Dynamics of tropical bird communities and populations in the West Indies and beyond

Organizers: Judith Toms and Jeff Brawn

Saturday, 15 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

In honor of John Faaborg's research in Puerto Rico that spans nearly 50 years, this symposium brings together a diverse group of investigators to discuss their long-term research on the ecology of bird populations and communities in Puerto Rico and elsewhere in the Neotropics, with questions ranging from the impacts of climate and land use to interactions among species and species' distributions on archipelagos.

Making the most of disparate data to map opportunities for migratory bird conservation

Organizers: Jill Deppe, Nathaniel Seavy, and William DeLuca

Saturday, 15 August (10:00–11:30 am ET, 2:00–3:30 pm ET)

This symposium will bring together a diverse set of speakers to share how disparate data on migratory birds are being synthesized and applied to conservation challenges in the Western Hemisphere.

Key Biodiversity Areas: Conserving the most critical sites for birds and all nature

Organizers: David Diaz, Amy Upgren, and Italia Yopez

Saturday, 15 August (2:00–3:30 pm ET)

This symposium will focus on advances in the identification and conservation of Key Biodiversity Areas as a path towards safeguarding important sites for birds and other species in North America and the Caribbean.

Lightning Symposia

Protecting and restoring bird habitat in the agricultural matrix: net benefits for birds and farmers

Organizers: Sacha Heath and Matthew Johnson

Friday, 14 August (2:00–3:30 pm ET)

Ten presenters in 60 minutes will share their findings on the effects of uncultivated vegetation in and around farms on birds and the resulting avian-mediated services and disservices to farmers.

Lightning talks for Golden Auks

Organizer: Nathaniel Wheelwright

Saturday, 15 August (10:00–11:30 am ET)

This session consists of 5-minute lightning talks by ornithologists above a certain age, describing the best paper they ever wrote.

Early Professional Mini-Talks

Organizer: Early Professional Committee

Saturday, 15 August (2:00–3:30 pm ET)

This session consists of 5-minute lightning talks by early professional ornithologists.



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3 Billion Birds Lost – Now what?

Organizers: Rebecca (Becky) Stewart, Ken Rosenberg, and Anna Lello-Smith

Tuesday, 11 August (4:00–5:00 pm ET)

In September 2019, Rosenberg et al. reported staggering bird population losses across most of the North America's avifauna – a net loss of 3 billion birds since 1970. The declines transcend biomes and species guilds and signal an urgent conservation need. The publication in *Science* was accompanied by an extensive awareness-raising campaign that garnered the attention of media and public nationally and internationally. Today, nearly a year later, the question remains, “Now what?” How do we, as scientists, researchers and conservationists, move forward from here? What do we need to know to address these dramatic declines? Where are the immediate and ongoing research gaps? What actions do we take? And how do we collectively address these issues across diverse landscapes and jurisdictions? The round table's primary objective is to engage students, researchers and agencies in a discussion related to some of these key questions—bringing fresh perspectives and new ideas to the table—to identify key information gaps, new (or unaddressed) research areas and other opportunities that will help shape conservation science over the next decade. Round table participants will gain an increased awareness of the potential and significant role they can play in conservation science as well as a clear path to ongoing participation, collaboration and engagement in working to save our shared birds. We plan to publish the results of this round table as a Perspectives in *The Condor*, inviting participants to engage in development of this publication. This round table is co-sponsored by Partners in Flight and the American Ornithological Society Conservation Committee.

Heron conservation in the Americas

Organizers: Michael (Clay) Green, John Brzorad, Dale Gawlik, and Andrew Kasner

Tuesday, 11 August (4:00–5:00 pm ET)

The Conservation Action Plan for Herons of the World was last updated in 2007. This comprehensive plan sets forth strategic principles for heron, egret and bittern (hereafter herons) conservation around the globe. However, in an ever-changing world, the plan needs to be reassessed and revised to address the growing challenges, threats and opportunities facing herons and their associated habitats. The proposed roundtable will bring together heron researchers and conservationists to begin the discussion about species status updates and heron conservation within the Americas. The goals for this roundtable will be to facilitate networking amongst researchers, obtain updates on species, and share current and proposed research and conservation initiatives related to herons and their habitats. We invite all that are interested in heron research and conservation and want to be involved in conservation action planning for herons, egrets and bitterns throughout the Americas.

Open science initiatives in the life sciences (Oxford University Press)

Organizers: Sarah Andrus, Scott Sillett, Catherine Lindell

Tuesday, 11 August (4:00–5:00 pm ET)

This session will introduce and discuss key trends in Open Science including Open Access, Open Data, preprints, citizen science, and transparent peer review. Participants will learn how researchers and other stakeholders in the biological sciences are utilizing new workflows and technologies to support Open Science, and assess the benefits and risks of these approaches. Specific applications to ornithology research will especially be considered.

A mixed flock: Diverse narratives within ornithology

Organizers: Carly Aulicky and Chad Wilhite

Wednesday, 12 August (4:00–5:00 pm ET)

What does it mean to be an LGBTQIA+ ornithologist and how do our personal identities impact us in the workplace? We propose to bring together LGBTQIA+ identified and allied ornithologists to discuss their work, experiences, and personal stories. Featured panelists will be asked a series of prepared questions to help lead discussion through key topics and allow each panelist to share their personal stories about what it means to



exist in the intersectional space of being a queer ornithologist. The structured Q&A portion of the roundtable will ensure key topics such as: how their LGBTQIA+ identity has influenced their relationship with their profession and/or research, perspective on what they think acknowledgement and inclusion of diverse narratives within ornithology means for the future of our field, what can be done to ally with underrepresented individuals, and advice for up and coming ornithology professionals. The more formal Q&A will shift to open audience questions and discussion with the panelists for the remaining duration of the roundtable. Establishing open communication between panelists and participants will help create an inclusive and welcoming space to discuss sometimes difficult topics related to personal identity within our profession. LGBTQIA+ individuals represent a hidden diversity or an unseen portion of the ornithological community and a round table discussion will lead to increased awareness of the work, issues, and presence of queer ornithologists throughout the field. The results from our conversation will be used to inform efforts to increase the inclusion and visibility of LGBTQIA+ ornithologists.

Birds of the World: Contribute your expertise!

Organizers: Paul G. Rodewald and Brooke Keeney

Wednesday, 12 August (4:00–5:00 pm ET)

Birds of the World (BOW) is the most comprehensive reference for the life histories of the World's 10,700+ bird species and the web's premiere resource for digital natural history. This round table seeks to engage ornithologists to contribute their information and expertise to species accounts. We will demonstrate advances of BOW species accounts, including new multimedia capabilities and integration of data products. A discussion will follow the demonstration with topics to include: the process of species account revisions and updates, contributions and authorship, community engagement, and suggestions for future developments.

Professional Ethics Town Hall

Organizers: Jeff Brawn, Jeanne Fair, Robert Fleischer

Wednesday, 12 August (4:00–5:00 pm ET)

The Professional Ethics Town Hall event is an annual "listening session" on the topics of professional ethics and professional responsibility relevant to ornithologists. All attendees are invited to participate to express their perspectives, discuss emerging topics, and voice their questions, concerns and suggestions about issues relevant to professional ethics. The Town Hall is organized by the AOS Professional Ethics Committee.

Una perspectiva continental: What can the House Wren tell us about environmental change?

Organizers: Erin E. Grabarczyk and Luis Sandoval

Thursday, 13 August (4:00–5:00 pm ET)

House Wrens transcend borders across South, Central, and North America, signaling their presence in diverse habitats, from sea level to mountain tops, with their loud, bubbling song. Because of their wide distribution and affinity for disturbance, House Wrens present a unique opportunity to study adaptations, or the lack thereof, in response to a rapidly changing world. We invite past, present, and future House Wren researchers to join a friendly discussion that will promote collaboration, idea sharing, and ask, what can the House Wren tell us about environmental change?

Applications of Unmanned Vehicle Systems (AKA Drones) to the Study and Conservation of Birds

Organizers: David Bird, Dominique Chabot, and Ann McKellar

Friday, 14 August (4:00–5:00 pm ET)

Over the past 10 years, the use of unmanned aerial vehicles, or drones, has exploded in popularity in ecological studies in general, and ornithology in particular. As a cutting-edge tool, drones have many advantages over traditional survey and research techniques, as they may minimize human mortality due to plane crashes, reduce



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cost and disturbance, increase accuracy, and allow the collection of high-resolution data over large and/or otherwise inaccessible areas. The objective of this Round-Table Discussion is to introduce the current various applications of unmanned vehicle systems to both ornithology and bird conservation to attendees with no experience in the use of these machines and to determine what other attendees have been accomplishing with them. Specifically, we are interested in airing and hearing the latest news from around the world on the use of drones to count, detect, and track birds, as well as to disperse nuisance birds. Our intended outcomes are three-fold. First, we wish to bring together experts who have been using drones in ornithological applications and those who are merely contemplating their use in their fields to encourage the latter to use this pioneering technology. Second, we expect to discuss failures and successes with respect to current uses of drones in ornithology as a means of assisting those in need of help. Finally, we hope that a face-to-face discussion among both experts and potential users of drones will result in future research collaborations between ornithologists in academic, government and private sectors.

Expanding the Motus Wildlife Tracking Network: Regional Planning and Technology Updates

Organizers: Lucas DeGroote, Lisa Kiziuk, Stewart McKenzie, and Matthew Webb

Friday, 14 August (4:00–5:00 pm ET)

The Motus Wildlife Tracking System has grown explosively over the past five years, expanding from a largely regional Northeast telemetry network to one with an international scope; including more than 850 receiver stations on five continents, involving more than 600 research partners and collaborators. As Motus expands to its global potential, strategic planning is urgently needed at multiple levels to ensure sustainability of both funding and infrastructure maintenance, to provide more seamless data integration and processing as data upload rates increase dramatically, and to create systems to adopt and adapt to changing technology. This round table discussion will connect current and future Motus users. We will outline our project to install 100 Motus receiving stations across the northeastern United States and offer “lessons learned” to collaborators planning and building networks in other regions in North America. We invite those building similar networks to contribute to a continental level strategic plan. We will also discuss sustainable funding; infrastructure maintenance and upgrades; and emerging data analytics, tools and technologies. By informing and connecting Motus users we hope to share our expertise to guide the sustainable growth of Motus for the foreseeable future.

Smithsonian Migratory Bird Center and the Tri-national North American Bird Conservation Initiative (NABCI): What does “Bird Friendly” mean?

Organizers: Ruth Bennett, Justin Bowe, Marshall Johnson, and Greg Butcher

Friday, 14 August (4:00–5:00 pm ET)

The Bird Friendly certification concept, which links consumers with farmers or companies that conserve habitat, was first pioneered by the Smithsonian’s Bird Friendly® Coffee program. Many groups have subsequently adopted “bird friendly” products and campaigns, but these efforts can be disjointed and suffer from low consumer awareness. In this roundtable, we seek to gather people who use the generic term “bird friendly”, or who engage in agriculture and development projects with conservation benefits for birds, to think collectively about how to define and promote a network of Bird Friendly agricultural products and lifestyle choices. This roundtable will follow the NABCI/ABC symposium: “The relevance of bird conservation in broader land use, conservation, and sustainable development efforts,” and invites all symposium speakers and attendees. We will guide a discussion that draws on the experiences of current conservation partnerships that involve coffee, cacao, cardamom, forest products, cattle, shrimp, and salt. Participants will help identify the common ground and strengths of these diverse initiatives and then discuss collective needs to promote and strengthen a potential “Bird Friendly Coalition.” We envision the feedback from this roundtable leading to a guiding document about Bird Friendly conservation, development, and agriculture. This document will serve as a valuable resource to consumer groups and conservation organizations that seek to conserve birds with agricultural and development projects and chart a path towards greater collaboration and market awareness.



3 billones de aves perdidas – ¿Ahora qué?

Organizers: Rebecca (Becky) Stewart, Ken Rosenberg, and Anna Lello-Smith

Martes, 11 de agosto (4:00–5:00 pm ET)

En septiembre de 2019, Rosenbert et al. reportaron la asombrosa pérdida de poblaciones de aves a través de la mayoría de la avifauna norteamericana, una pérdida neta de 3 billones de aves desde 1970. Los descensos trasciende biomas y gremios de especies y señalan una necesidad urgente de conservación. La publicación en Science fue acompañada de una extensa campaña de sensibilización que atrajo la atención de los medios y público a nivel nacional e internacional. Hoy, cerca de un año después, las preguntas siguen siendo, ¿Ahora qué? ¿Cómo nosotros, como científicos, investigadores y conservacionistas, avanzamos desde aquí? ¿Qué necesitamos saber para abordar estos dramáticos descensos? ¿Dónde están las brechas de investigación inmediatas y futuras? ¿Qué acciones tomaremos? y ¿Cómo abordamos colectivamente estos problemas en diversos escenarios y jurisdicciones? El objetivo principal de esta mesa redonda es involucrar a los estudiantes, investigadores y agencias en una discusión relacionada con algunas de estas preguntas claves, trayendo nuevas perspectivas e ideas a la mesa, para identificar información clave, nuevas (o no abordadas) áreas de investigación y otras oportunidades que nos podrán ayudar a darle forma a la ciencia de la conservación durante la próxima década. Los participantes obtendrán una mayor conciencia del rol potencial y significativo que se puedan desempeñar en la ciencia de la conservación, así como un camino claro hacia la participación, colaboración y compromiso en el trabajo para salvar nuestras aves. Planificamos publicar los resultados de esta mesa redonda como una perspectiva en The Condor invitando a los participantes a contribuir en el desarrollo de la misma. Esta mesa redonda es co-auspiciada por Partners in Flight y el comité de conservación de la Sociedad Ornitológica Americana.

Conservación de garzas en las Américas

Organizers: Michael (Clay) Green, John Brzorad, Dale Gawlik, and Andrew Kasner

Martes, 11 de agosto (4:00–5:00 pm ET)

El Plan de Acción para la Conservación de las Garzas del Mundo fue actualizado por última vez en 2007. Este plan integral establece principios estratégicos para la conservación de las garzas, garcetas y avetoros (en adelante, garzas) en todo el mundo. Sin embargo, en un mundo en constante cambio, el plan necesita ser reevaluado y revisado para abordar los crecientes desafíos, amenazas y oportunidades que enfrendan las garzas y sus hábitats. La mesa redonda propuesta reunirá a investigadores de garzas y conservacionistas para comenzar una discusión sobre las actualizaciones a los estados de las especies y la conservación de las garzas en las Américas. Los objetivos serán facilitar la creación de redes entre investigadores, obtener actualizaciones sobre las especies y compartir iniciativas actuales y propuestas de investigación y conservación relacionadas con las garzas y sus hábitats. Invitamos a todos los que estén interesados en la investigación y conservación de garzas y que quieran participar en la planificación de acciones de conservación para garzas, garcetas y avetoros a través del continente americano.

Bandada mixta: Diversas narrativas dentro de la ornitología

Organizers: Carly Aulicky and Chad Wilhite

Miércoles, 12 de agosto (4:00–5:00 pm ET)

¿Qué significa ser un ornitólogo LGBTQIA+ y cómo nuestras identidades personales nos afectan en el lugar de trabajo? Proponemos reunir a ornitólogos identificados como LGBTQIA+ y aliados para discutir su trabajo, experiencias e historias personales. A los panelistas se les formularán una serie de preguntas preparadas para dirigir la discusión a través de temas claves y permitirle a cada uno compartir sus historias personales en espacios interseccionales por ser un ornitólogo queer. La parte estructurada de preguntas y respuestas de la mesa redonda asegurará temas claves como: cómo su identidad LGBTQIA+ ha influenciado su relación con su profesión y/o investigación, su perspectiva sobre el reconocimiento y la inclusión de diversas narrativas dentro de la ornitología puede significar para el futuro de nuestro campo, qué se puede hacer para aliarse con personas subrepresentadas, y consejos para futuros profesionales de la ornitología. Las preguntas y respuestas más formales cambiarán a preguntas abiertas de la audiencia y discusión con los panelistas durante la duración restante de la mesa redonda. Queremos establecer una comunicación abierta entre los panelistas y los participantes para ayudar a crear un



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espacio inclusivo y acogedor para discutir temas a veces difíciles relacionados con la identidad personal dentro de nuestra profesión. Las personas LGBTQIA+ representan una diversidad oculta o una parte invisible de la comunidad ornitológica y una discusión en una mesa redonda conducirá a una mayor conciencia del trabajo, los problemas y la presencia de ornitólogos queer en todo el campo. Los resultados de nuestra conservación serán usados para informar esfuerzos para aumentar la inclusión y visibilidad de los ornitólogos LGBTQIA+.

Aves del Mundo: ¡Contribuya con su experiencia!

Organizers: Paul G. Rodewald and Brooke Keeney

Miércoles, 12 de agosto (4:00–5:00 pm ET)

Las Aves del Mundo (BOW por sus siglas en inglés) es la referencia más completa para las historias de vida de más de 10,700 especies de aves en el mundo y el principal recurso para historia natural digital. Esta mesa redonda busca involucrar a los ornitólogos a contribuir con su información y experiencia a los reportes de las especies. Mostraremos los avances de los reportes de las especies en BOW, incluyendo las nuevas capacidades de multimedia e integración de datos. Una discusión seguirá a la demostración con temas para incluir como: el proceso de revisiones y actualizaciones de reportes de especies, contribuciones y autoría, participación de la comunidad y sugerencias para desarrollos futuros.

Town Hall de la Ética Profesional

Organizadores: Jeff Brawn, Jeanne Fair, Robert Fleischer

Miércoles, 12 de agosto (4:00–5:00 pm ET)

El evento del Town Hall de la Ética Profesional es una “sesión aclamada” anual sobre los temas relevantes de la ética y la responsabilidad profesional para los ornitólogos y las ornitólogas. Todos y todas están invitados a participar para expresar sus perspectivas, discutir temas emergentes y decir sus preguntas, inquietudes y sugerencias sobre temas relevantes para la ética profesional. El Town Hall es organizado por el Comité Profesional de Ética de la AOS.

Una perspectiva continental: ¿Qué nos puede decir el House Wren sobre el cambio ambiental?

Organizers: Erin E. Grabarczyk and Luis Sandoval

Jueves, 13 de agosto (4:00–5:00 pm ET)

Los Troglodytes aedon trascienden las fronteras de Suramérica, pasando por Centroamérica y llegando a Norteamérica, indicando su presencia en diversos hábitats, desde el nivel del mar hasta las cimas de las montañas, con su fuerte y trinoso canto. Debido a su amplia distribución y afinidad por los disturbios, T. aedon presentan una oportunidad única para estudiar las adaptaciones, o la falta de ellas, en respuesta a un mundo que cambia rápidamente. Invitamos a los investigadores del pasado, el presente y el futuro de T. aedon a unirse a una discusión amistosa que promoverá la colaboración, el intercambio de ideas y responder, ¿qué puede decirnos T. aedon sobre el cambio ambiental?

Aplicaciones de sistemas de vehículos no tripulados (o Drones) para el estudio y la conservación de las aves

Organizers: David Bird, Dominique Chabot, and Ann McKellar

Viernes, 14 de agosto (4:00–5:00 pm ET)

En los últimos 10 años el uso de los vehículos aéreos no tripulados, o drones, ha crecido en popularidad en estudios ecológicos en general y, en particular, la ornitología. Como herramienta de vanguardia, los drones tienen muchas ventajas sobre los censos tradicionales y técnicas de investigación, ya que pueden minimizar la mortandad humana por accidentes aéreos, reduce costos y perturbaciones, aumenta la precisión y permite la colección de datos de alta resolución en áreas grandes y/o inaccesibles. El objetivo de la discusión de la mesa redonda es introducir varias aplicaciones actuales de los sistemas de vehículos no tripulados en la ornitología y la conservación de aves para personas que no tienen experiencia en el uso de estas máquinas y para determinar que



han logrado otros con ellos. Específicamente, estamos interesados en transmitir y escuchar las últimas noticias de todo el mundo sobre el uso de drones para contar, detectar y rastrear aves, así como para dispersar aves molestas. Nuestros resultados esperados son tres. Primero, deseamos reunir a expertos que han estado usando drones en aplicaciones ornitológicas y aquellos que simplemente están contemplando el uso de esta tecnología a sus campos. En segundo lugar, esperamos analizar los fracasos y los éxitos con respecto a los usos actuales de los drones en la ornitología para ayudar a aquellos que lo necesiten. Finalmente, esperamos que esta discusión cara a cara entre expertos y usuarios potenciales de drones resulte en futuras colaboraciones de investigación entre ornitólogos en sectores académicos, gubernamentales y privados.

Expanding the Red de Rastreo de Vida Silvestre Motus: Planificación regional y actualizaciones tecnológicas **Expanding the Motus Wildlife Tracking Network: Regional Planning and Technology Updates**

Organizers: Lucas DeGroot, Lisa Kiziuk, Stewart McKenzie, and Matthew Webb

Viernes, 14 de agosto (4:00–5:00 pm ET)

El sistema de rastreo de vida silvestre Motus ha crecido explosivamente en los últimos cinco años, expandiéndose de una red de telemetría regional en el noreste a un alcance internacional, incluyendo más de 850 estaciones receptoras en los cinco continentes, involucrando más de 600 investigadores y colaboradores. A medida que Motus se expande a su potencial global, se necesita con urgencia una planificación estratégica en múltiples niveles para asegurar la sostenibilidad tanto del financiamiento como del mantenimiento de la infraestructura, para proporcionar una integración y procesamiento de datos más fluidos a medida que las tasas de carga de datos aumentan dramáticamente y para crear sistemas para adoptar y adaptarse a la tecnología cambiante. Esta mesa redonda conectará a los usuarios actuales y futuros de Motus. Delinearemos nuestro proyecto para instalar 100 estaciones receptoras de Motus en el noreste de los Estados Unidos y ofreceremos “lecciones aprendidas” a los colaboradores que planifican y construyen redes en otras regiones de América del Norte. Invitamos a aquellos que construyen redes similares a contribuir a un plan estratégico a nivel continental. También discutiremos la financiación sostenible, mantenimiento de infraestructura y actualizaciones, y análisis de datos emergentes, herramientas y tecnologías. Al informar y conectar a los usuarios de Motus, esperamos compartir nuestra experiencia para guiar el crecimiento sostenible de Motus en el futuro.

Agricultura y desarrollo amigable con las aves: ¿Qué significa amigable con las aves? Por: El Centro de Aves Migratorias de Smithsonian y La Iniciativa Trinacional de Conservación de Aves de Norteamérica (NABCI): ¿Qué significa “amigable con la aves”?

Organizers: Ruth Bennett, Justin Bowe, Marshall Johnson, and Greg Butcher

Viernes, 14 de agosto (4:00–5:00 pm ET)

El concepto de certificación Amigable con las Aves (Bird Friendly), que vincula a los consumidores con los agricultores o compañías que conservan el hábitat, fue pionero por el programa Café Amigable con las Aves del Smithsonian. Muchos grupos han adaptado consecutivamente productos y campañas “amigables con las aves”, pero estos esfuerzos pueden ser desarticulados o sufrir una baja por la conciencia del consumidor. En esta mesa redonda buscamos reunir a personas que usan el término genérico “amigable con las aves” o que participan en proyectos de agricultura y desarrollo con beneficios de conservación para las aves para pensar colectivamente cómo definir y promover una red de productos agrícolas y estilos de vida amigables con las aves. Esta mesa redonda seguirá el simposio NABCI/ABC: “La relevancia de la conservación de las aves en los esfuerzos más amplios de uso de la tierra, conservación y desarrollo sostenible”, e invita a todos los exponentes y asistentes del congreso. Guiaremos una discusión que se basará en las experiencias de las asociaciones actuales de conservación que involucran café, cacao, cardamomo, productos forestales, ganado, camarones y sal. Los participantes ayudarán a identificar las fortalezas de estas diversas iniciativas y luego discutirán las necesidades colectivas para promover y fortalecer una potencial “Coalición Amigable con las Aves”. Visualizamos los comentarios de esta mesa redonda que conducen a un documento guía sobre la conservación, el desarrollo y la agricultura amigables con las aves. Este documento servirá como un recurso valioso para grupos de consumidores y organizaciones de conservación que buscan proteger las aves con proyectos agrícolas y de desarrollo y trazar un camino hacia una mayor colaboración y conciencia del mercado.



SOCIETY MEETINGS

AOS Council Meeting

Monday, 10 August (10:00 am–5:00 pm ET)

Official meeting of the American Ornithological Society Council. [Invitation only]

SCO/SOC Council Meeting

Monday, 10 August (11:00 am–4:00 pm ET)

Official meeting of the Society of Canadian Ornithologists/Société des ornithologistes du Canada Council. [Invitation only]

AFO Council Meeting

Monday, 10 August (12:00–4:00 pm ET)

Official meeting of the Association of Field Ornithologists Council. [Invitation only]

AOS Fellows Meeting

Tuesday, 11 August (10:00–11:30 am ET)

Official meeting of the American Ornithological Society Fellows. [Invitation only]

AOS Editorial Board Meeting

Friday, 14 August (4:00–5:00 pm ET)

All the Associate Editors for *The Auk: Ornithological Advances* and *The Condor: Ornithological Applications* are invited to this session where we will reconnect, meet some of the new AEs, and discuss topics like How do we find reviewers? and Is it ok to edit reviews? [Invitation only]

AFO/WOS Joint General Meeting

Friday, 14 August (4:00–5:00 pm ET)

Members of the Association of Field Ornithologists and Wilson Ornithological Society are encouraged to attend this joint annual meeting of the two societies.

SCO/SOC General Meeting

Friday, 14 August (4:00–5:00 pm ET)

Members of the Society of Canadian Ornithologists/Société des Ornithologistes du Canada are encouraged to attend this general meeting of the society.





NAOC 101

Organizers: Jen Smith and the Diversity & Inclusion Committee

Tuesday, 11 August (10:00–10:30 am ET)

Join us in this 30-minute webinar-based session that aims to introduce first-time attendees to the NAOC by explaining what the NAOC is and showcasing what NAOC 2020 has to offer. Learn how to make the most of the NAOC through setting objectives, carefully planning your schedule, and networking. We understand that conferences can be intimidating for first-time attendees (especially when in a novel format!). Our aim is to help make NAOC 2020 less intimidating by offering tips and tricks about how to navigate and get the most out of a conference. A panel of seasoned conference-goers will be available at the end of the webinar to address any questions you have—we look forward to seeing you!

Meet Your Host Societies and Each Other!

Tuesday, 11 August (5:30–7:30 pm ET)

Welcome to the NAOC 2020! Please join us for this opening event to the seventh North American Ornithological Conference (NAOC VII), a virtual gathering opportunity for sharing and discussing scientific research in all areas involving birds.

We will start the evening by meeting the host societies (all 9 of them!) and finding out what they have to offer during the Society Lightning Talks. Then, get ready to catch up with old colleagues and meet new ones through a fun virtual networking event in which participants will be broken up into small groups and provided with ice-breaker questions (e.g., What's your favorite bird and why? What was your craziest field work misadventure?) to stimulate tantalizing conversations! We are eager to see everyone in 'person,' and our hope is that this opening session will get everyone excited for all that NAOC 2020 has to offer!

Student–Mentor Meetup

Organizers: Shailee Shah, Rachael Mady, Emily Webb, Jordan Herman, and Sarah Khalil

Tuesday–Friday, 11–14 August (4:00–5:00 pm ET)

The student-mentor meetup is an opportunity for students to connect with mentors in a small group setting. Groups of 3–4 students will each be matched with a mentor based on their research interests and career goals. The mentoring group will meet for an hour during the week of the conference. [Preregistration required]

Meet BirdsCaribbean

Organizers: Andrew Dobson, Adrienne Tossas, Ancilleno Davis, Jennifer Wheeler, Justin Proctor, Lisa Sorenson, and Howard Nelson

Wednesday, 12 August (4:00–5:00 pm ET)

Meet BirdsCaribbean! Bring your favorite beverage (mojitos anyone?) and come hang out with a group dedicated to studying and protecting Caribbean birds and their habitats! During this informal chat, we want to connect folks from our Caribbean community with other active members of the broader bird world. Who knows—maybe you'll meet a future collaborator, or at the very least we promise you'll make some new friends!

Meet the AOS Editors

Organizers: Scott Sillett, Catherine Lindell, Kate Huyvaert, Mark Penrose, Paul Doherty, Colleen Handel, Wesley Hochachka, Sabrina Taylor

Wednesday, 12 August (4:00–5:00 pm ET)

Everyone is welcome to this session to meet the Editors-in-Chief, Senior Editors, and Managing Editor for the AOS journals, *The Auk: Ornithological Advances* and *The Condor: Ornithological Applications*. This session might be particularly helpful for students and early career professionals. The editors will discuss what they are looking for in submitted manuscripts and how to increase the chances your manuscript will be reviewed favorably. After comments by the editors, the session will be devoted to questions from the audience.



NETWORKING EVENTS

NAOC LGBTQIA+ and Allies Virtual Social

Organizers: Kristen Covino and the Diversity & Inclusion Committee

Thursday, 13 August (4:00–5:00 pm ET)

This social is an opportunity to converse with colleagues who identify as lesbian, gay, bi, trans, otherwise queer, and allies to this community to discuss LGBTQIA+ experiences and representation in ornithology and beyond. We will promote a welcoming atmosphere at this private event to provide opportunities for folks to meet other members of the queer community and those who support the community. We plan on creating several opportunities to promote discussion in a safe atmosphere with small breakout groups and conversation topic suggestions. Come share your experiences, ask questions, or just enjoy the company of friends. [Preregistration required]

Bird Friendly Coffee Hour

Organizers: Justine Bowe and Ruth Bennett, Smithsonian Migratory Bird Center

Thursday, 13 August (4:00–5:00 pm ET)

Join the Smithsonian's Bird Friendly® Coffee Program for a Coffee Happy Hour: Learn how to taste and grade coffee like an expert, ask Latin American ornithologists how coffee supports birds, and test your knowledge in a trivia round for a chance to win a free bag of Bird Friendly coffee! Win or no, you can find your perfect bag of Bird Friendly coffee at s.si.edu/BuyBF.

Closing Remarks and Student Presentation Awards

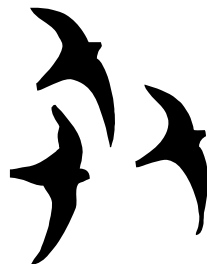
Saturday, 15 August (4:00–4:30 pm ET)

Co-chairs Thomas Sherry and Jameson Chace will offer closing remarks about the historic NAOC meeting. Morgan Tingley and Matt Carlson will then present the Student Presentation Awards on behalf of all of the host societies.

Storytelling, Mocking Manakin Bird Call Contest, Trivia Quiz

Saturday, 15 August (6:00–7:30 pm ET)

Please join your friends and colleagues for an 'evening' of tears and laughter as we listen to six captivating stories that reflect the breadth and depth of experiences within our ornithological community. These touching tales will be followed by a highly entertaining competition in which several daring colleagues will try their best to imitate vocalizations and behaviors of different birds. Finally, pit your wits against your friends and test your recollections of the conference by participating in a challenging NAOC Trivia Quiz!





Working with data collected by citizen scientists – challenges and opportunities for ornithologists

Organizer: Judit Szabo (Universidade Federal da Bahia)

Monday, 10 August (12:00–2:00 pm ET)

Participants will get an overview of commonly used bird survey methods. Through lectures, discussions and hands-on examples they will become familiar with spatial, temporal and observer-associated biases and ways to address these biases during the three phases: data collection, data analysis and data interpretation.

Overview of topics or syllabus: bird surveys methods, the pros and cons of different methods, what does it mean if we have structured or unstructured surveys? what is realistic to expect from volunteers and what do they need from a scientist? the effects of sample size, types of biases, how to recognize and handle biases during data collection, data analysis and data interpretation including novel methods.

Introduction to analyzing count data in R with ‘unmarked’

Organizers: Evan Adams (Biodiversity Research Institute), Beth Ross (USGS)

Monday, 10 August (12:00–4:30 pm ET)

Understanding how to think about and analyze count data is a core skill for ornithologists and ecologists. Bird surveys are a common producer of count data and these data are used to conduct species status assessments, build population models, track population trends, and understand spatial variation in density, among many other applications. In this workshop we will teach attendees how to visualize and analyze count data that are generated from surveys. Our main focus for analytical techniques will be N-mixture models (and other similar hierarchical modeling techniques like removal modeling and distance sampling) that use additional information gathered during the survey to correct for biases in data collection. We describe how to generate your own count data, what kinds of distributions are appropriate for analyzing these data, then use ‘unmarked’ in R to give examples of how to appropriately fit models to these data. This course will focus on a firm understanding of the linear modeling process that underlies these complicated models, model fit and appropriateness, and how to visualize model results effectively and appropriately. Multiple examples will be used during the course and all course materials will be available on GitHub for access before and after the workshop. The target audience of this workshop are ecologists that are familiar with R and data analysis but inexperienced with using R to effectively analyze count data and want learn new statistical techniques.

The target audience of this workshop are ecologists that are familiar with R and data analysis but inexperienced with using R to effectively analyze count data and want learn new statistical techniques. All course materials will be available on GitHub for access before and after the workshop.

eBird Status and Trends

Organizers: Tom Auer (Cornell Lab of Ornithology)

Monday, 10 August (2:30–4:30 pm ET)

The citizen science project eBird has generated a database of over 500 million bird observations, with broad spatial and taxonomic coverage. Over the past 10 years, the Cornell Lab of Ornithology has developed machine-learning models using eBird and remote-sensing data to produce high resolution, weekly estimates of range boundaries, occurrence rate, and relative abundance while accounting for many of the biases inherent in citizen science datasets, including variation in observer behavior and effort. Visualizations and modeled data products for 500 North American breeding birds, including resident and non-breeding grounds in South America, are currently available on the eBird website.

This workshop will introduce attendees to the modeled data products (weekly estimates of range boundaries, occurrence rate, and relative abundance) and the ‘ebirdst’ R package developed specifically for working with



WORKSHOPS

these data. This will include an introduction to the modeling process used to generate the eBird Status and Trends data products. It will also include a demonstration how to access and manipulate these data products for specific combinations of species, seasons, and regions using the ebirdst package. After the workshop, attendees will have an understanding of how and when to use these data products for applied research and conservation efforts, including within-year dynamics. Some experience with R will be helpful in following along with the demonstration. Please note, this workshop will not cover the analysis of trends or trend data.

Promoting Diversity and Inclusion in Ornithology - Mini Discussions

Organizers: Amelia-Juliette Demery (Cornell University), Jennifer Houtz (Cornell University), Shailee Shah (Columbia University)

Monday, 10 August (2:30–4:00 pm ET)

Promoting diversity and inclusion is one of the focal points of the NAOC mission to foster a healthy and sustainable ornithological community in the modern age. The NAOC welcomes diversity “for its power to develop new ideas, and to foster a productive environment through the introduction of different backgrounds, perspectives, and experiences.” One of the key effectors of encouraging diversity is generating a dialogue between members from different walks of life on common challenges to promoting diversity and inclusion in the professional setting. Participants can share unique perspectives and learn from the experiences of others. While inclusion in ornithology – and across all scientific fields – is an important issue shared by many, some may not be able to find a safe space at their professional institution to discuss how to promote a culture of inclusivity and other related topics. A workshop to facilitate discussions is an excellent space for dialogue about diversity and inclusion between NAOC members. It garners a sense of community, encouraging people of all demographics—under-represented or majority—to interact with and, ultimately, learn from their peers in a space where everyone is on an equal footing.

The objective of this workshop is to provide a safe space for discussing diversity and inclusion in one’s workplace, addressing challenges we face as a community in promoting diversity and inclusion (e.g. mentorship, hiring, the sense of “belonging”, “tokenism”) and generating ideas to solve those challenges. The workshop will start with a brief presentation of its mission, structure, and examples of challenges that participants may encounter when navigating a diverse professional community. The workshop will be devoted to mini (5-person with a moderator) round-table discussions to discuss scenarios that embody the changing landscape of a more diverse workplace and workshop ways in which to navigate these changes effectively and positively for the entire professional community. At the end we will bring the groups together to share any takeaways. We believe that in order to effectively promote a diverse community we need to encourage a dialogue about diversity-related issues with members of all demographics. In light of that mission, the NAOC Student Affairs Committee is collaborating with the NAOC Diversity and Inclusion Committee to present different avenues of communication between NAOC attendees at multiple professional stages. Our workshop’s format will facilitate a safe space for participants, primarily targeting students, to discuss personal challenges of promoting and navigating a diverse workplace.



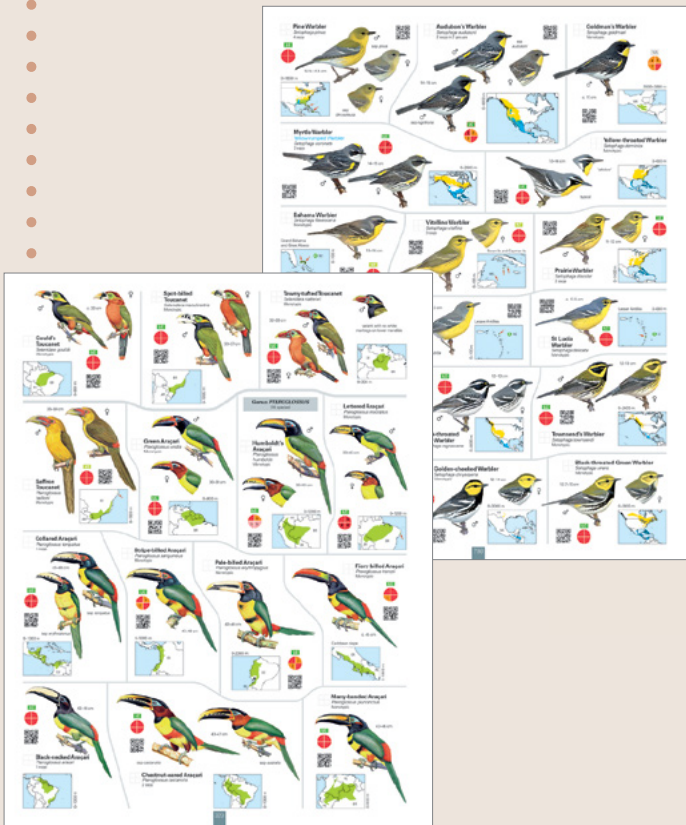
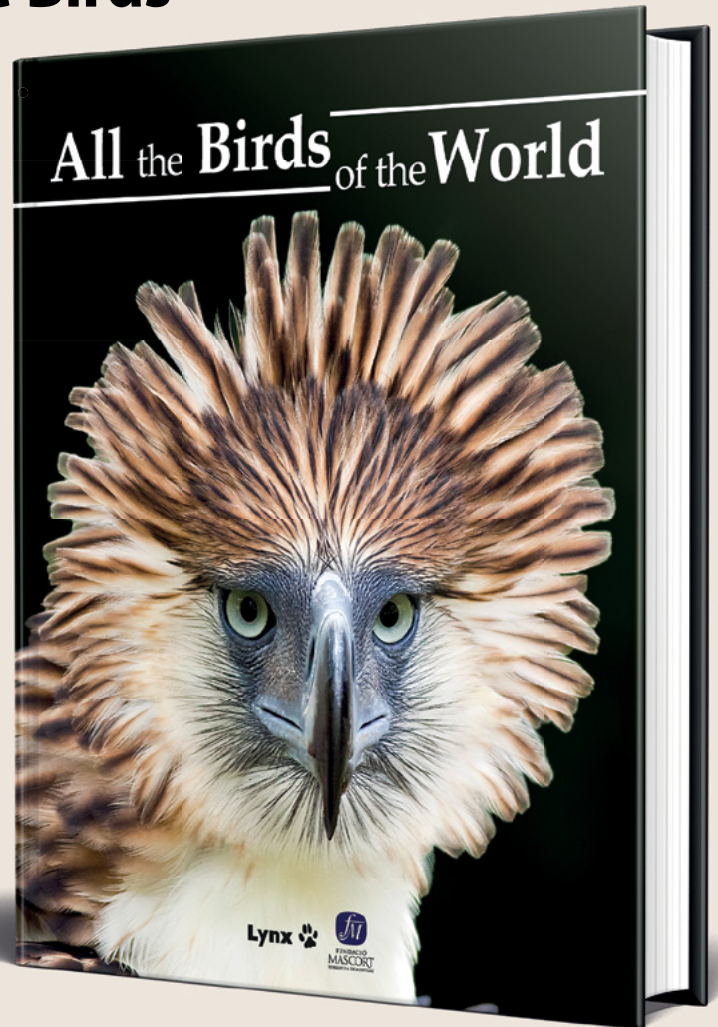
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