

**Center for Biodiversity and Conservation** 

The Marshall M. Weinberg

Student Conference on Conservation Science New York

October 5-8, 2021

**Conference Program** 



The Marshall M. Weinberg

Student Conference on Conservation Science New York

October 5-8, 2021 American Museum of Natural History

Major funding for the 2021 Student Conference on Conservation Science – New York (SCCS–NY) has been provided by Marshall M. Weinberg. In grateful recognition of his longstanding generosity toward the Center for Biodiversity and Conservation, this year's SCCS-NY is presented in his honor.

of Natural History.

**Conference** Partners:



**Conference Contributors:** 

**Conference Prize Contributors:** 

The Conference is organized by the Center for Biodiversity and Conservation at the American Museum

# Yale SCHOOL OF THE ENVIRONMENT



Pace University

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The Marshall M. Weinberg

Student Conference on Conservation Science New York

October 5-8, 2021 American Museum of Natural History

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# Acknowledgments

The Student Conference on Conservation Science (SCCS) is the only international conference designed for graduate students, post-doctoral fellows, and early-career professionals pursuing or considering the field of conservation science. Interactions with established conservationists encourage collaborations and advance research.

The Marshall M. Weinberg Student Conference on Conservation Science-New York 2021 (SCCS-NY) is a sister conference to the highly successful SCCS-Cambridge begun in 2000 by the University of Cambridge. Other SCCS conferences now include SCCS-Bangalore, SCCS-Australia, SCCS-Beijing, and SCCS-Hungary.

SCCS-NY 2021 is organized by the American Museum of Natural History's Center for Biodiversity and Conservation (CBC).

### SCCS-NY Content and Logistics Coordination:

Felicity Arengo Kristin Douglas Nadav Gazit Margaret Law Ana Luz Porzecanski

### **Technology Coordinators:**

Pete Ersts AMNH IT Support Team

#### **Program Design:**

Nadav Gazit

The SCCS-NY Content and Logistics Coordination team would like to thank CBC and Museum staff and the volunteers without whom the conference would not be possible.

# **General Information**

SCCS-NY is designed to foster dialogue and collaboration between the students, postdoctoral fellows, early-career professionals, and established conservationists in attendance. We care deeply about preserving the integrity of the work, research, and personal interactions of our speakers, mentors, presenters, and attendees. In order to find a balance between the expectations of presenters and attendees, and to make the meeting a safe and comfortable space for everyone, we have some basic guidelines. Please keep in mind CBC's meeting Code of Conduct and apply it to your written and oral communication. Harassment, intimidation, or discrimination in any form will not be tolerated. Our speakers and presenters have invested considerable time and effort in the development of their material and copyright laws apply. We encourage open discussion on social media and ask attendees to share the science and ideas presented at SCCS with their followers. However, we ask that you be especially cautious about discussing the work that is being presented. Due to the nature of this conference you may be hearing about new or unpublished work that may not be suitable for sharing. If you choose to write about the conference following the scheduled sessions, you must gain approval from speakers/presenters prior to quoting, publishing, or otherwise referencing their research on the Internet or through other forms of media.





# Code of Conduct

The Center for Biodiversity and Conservation (CBC) at the American Museum of Natural History (AMNH) works to promote a welcoming environment at its meetings, whether in virtual or physical spaces, that is safe, collaborative, supportive, and productive for all attendees, including volunteers, exhibitors, and service providers, and that values the diversity of views, expertise, opinions, backgrounds, and experiences reflected among the conference attendees. To that end, we expect all participants attendees, speakers, mentors, and volunteers—to follow the Code of Conduct during the conference. This includes conferencerelated social events, and in related online communities and social media. All forms of communication among SCCS-NY 2021 participants during the meeting are considered within the scope of the conference, and thus fall under the jurisdiction of the Code of Conduct. These include public and private communications in virtual conference rooms, via electronic chat functions (e.g., Q/A box, Zoom Chat), emails, texts, social media, phone calls, and other forms of written, verbal, and non-verbal (including visual) communication.

### **Expected Behavior**

- Treat everyone with respect and consideration.
- Communicate openly and thoughtfully with others and be considerate of the multitude of views and opinions that are different than our own.
- Be respectful in your critique of ideas.
- Consider your surroundings and computer screen contents when sharing your screen or appearing in live or pre-recorded videos to prevent the appearance of sensitive personal information, inappropriate background images, or disruptive content. This does not apply to unplanned cameo appearances by pets and children.
- Uphold and support the CBC's commitment and actions to improve the events environmental and social impacts.
- Behave in accordance with professional standards and applicable laws.
- Respect the rules and policies of all venues and online platforms associated with the meeting.

### Unacceptable Behavior

- Federal law.
- presentations.
- services.
- organized by the CBC.

#### Consequences

- comply immediately.
- CBC staff (or their designees) may take any action deemed necessary and appropriate, including immediate removal from the conference without warning or refund.
- The CBC reserves the right to prohibit attendance at any future meeting or conference organized by the CBC.

• CBC and AMNH do not tolerate discrimination or harassment on the basis of race, creed, color, religion, age, disability, marital status, partnership status, gender, sex, sexual orientation, gender identity, gender expression, genetic information, pregnancy, alienage or citizenship status, current or former participation in the uniformed services, status as a veteran, or national or ethnic origin, or on account of any other basis prohibited by applicable City, State, or

• Sexual language and imagery, or any other potentially harassing material or behavior including but not limited to verbal comments, intimidation or unwelcome sexual attention, are not permitted at the conference and may not be incorporated into the visuals or

• Violating the rules and regulations of the online platforms and

• Participants asked to stop any harassing behavior are expected to comply immediately and to not repeat their behavior, or may be required to leave the conference, in the CBC's sole discretion. • Examples of unacceptable behavior include but are not limited to disruption of virtual meetings, inappropriate comments related to any of the categories listed above; harassing photography or recording; threatening, intimidating or stalking anyone at the conference as an attendee, staff, or presenter or otherwise disruption of talks at the conference or other associated events

• Anyone requested to stop unacceptable behavior is expected to

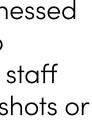
### **Reporting Unacceptable Behavior**

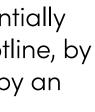
If you are the subject of unacceptable behavior, have witnessed any such behavior, or have any other concerns relating to unacceptable behavior, please immediately notify a CBC staff member listed in the program by email or phone. Screenshots or any evidence of the concern is helpful but not required.

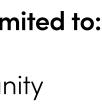
- Call 212-496-3431
- Email <u>sccs@amnh.org</u>
- Individuals may also report prohibited conduct confidentially or anonymously through the Museum's Compliance Hotline, by calling 1-800-620-5571. This 800-number is managed by an outside, independent service provider.

### Conference staff can provide support, including but not limited to:

• Contacting AMNH Title IX officers in Human Resources: Benjamin Marzolf, Title IX Coordinator / Equal Opportunity Specialist: 212-769-5316, bmarzolf@amnh.org







<b>Tuesday</b> October 5, 2021	10:00am	Welcome and Introduction Ana Luz Porzecanski, Director, Center for Biodiversity and Conservation, American Museum of Natural History
	10:15am	Plenary Address Our relationship to the environment, past and future: lessons from engaged archaeological research Kristina Douglass, Assistant Professor of Anthropology and African Studies, The Pennsylvania State University
	11:00am	Break
	11:10am	Talk session 1 Studying biodiversity in human-dominated systems
		Moderator: <b>Christian Rivera</b> , PhD Candidate, University of Florida
		A mixed-methods assessment of human-elephant conflict trends in northwestern Botswana <i>Megan McDaniels</i>
		Cost-effective auditory detection of coyotes in urban spaces using neural networks <i>Hunter Dillard-Jakubowicz</i>
		An integrated approach to prioritize carnivore conservation in shared landscapes <i>Mahi Puri</i>
		Water quality, biodiversity & ecosystem function of urbanized marine environments <i>Rinaldi Gotama</i>
	12:30pm	Break
	12:45pm	Mentor cafés

2:50pm

## Break

1:30pm

1:45pm

#### Speed talk session 1 New approaches for understanding biodiversity change over time

#### Moderator:

Suzanne Macey, Program Manager and Biodiversity Scientist, Center for Biodiversity and Conservation, American Museum of Natural History

Newspaper archives suggest changes in whale species composition in the NY Bight Danielle Brown

Distribution and current status of the largetooth sawfish in Costa Rica Jorge Valerio

Orphans without megafauna: can dispersal by water help Malagasy baobabs to survive? Seheno Andriantsaralaza

Transgenes of genetically modified animals detected via environmental DNA Charles Xu

Pleistocene fossils recontextualize the ecology of introduced turkeys in California Ashwin Sivakumar

# Break

### 3:00pm Virtual poster session A Wildlife research methods

Moderator:

Amanda Sigouin, Biodiversity Specialist, Center for Biodiversity and Conservation, American Museum of Natural History

#### 3:40pm Break

#### Virtual poster session B 3:45pm Wildlife management approaches

Moderator:

Nadav Gazit, Visual Creative and Research Assistant, Center for Biodiversity and Conservation, American Museum of Natural History

# 4:30pm Adjourn





<b>Vednesday</b> October 6, 2021	10:00am	Welcome and Introduction Felicity Arengo, Associate Director, Center for Biodiversity and Conservation, American Museum of Natural History
	10:15am	<ul> <li>Plenary Discussion</li> <li>Inspiring careers in conservation: SCCS-NY alumni share their journeys in the conservation field</li> <li>Leo Douglas, Clinical Assistant Professor, New York University</li> <li>Kaitlyn Parkins, Associate Director of Conservation and Science, NYC Audubon</li> <li>Andrea Reid, Assistant Professor, The University of British Columbia</li> <li>Moderator:</li> <li>Samantha Cheng, Biodiversity Scientist, Center for Biodiversity and Conservation, American Museum of Natural History</li> </ul>
	11:20am	Break
	11:30am	Talk session 2 Novel methods in biodiversity research
		Moderator: <b>Felicity Arengo,</b> Associate Director, Center for Biodiversity and Conservation, American Museum of Natural History
		New empirical evidence on humans' effect on assemblage species richness <i>Victor Cazalis</i>
		Connecting the dots: Lionfish dispersal between shallow- and deep-water habitats <i>Montana Airey</i>
		Examining the socio-ecological drivers of human- wolf conflict using occupancy models <i>Prashant Mahajan</i>
		Relating American Eel abundance to environmental DNA concentration in the Bronx River <i>Sam Chin</i>

2:55pm

1:00pm

1:45pm

2:00pm

# 12:50pm Break

Mentor cafés

# Break

## Speed talk session 2 Habitat management and restoration

#### Moderator: Ivan Monagan, PhD Candidate, Columbia University

Habitat disturbance trumps moonlight effects on the activity of tropical bats Giulliana Appel

Introduced rats (Rattus rattus) in Puerto Rico, seed dispersers or seed predators? Jahdiel Torres-Caba

How do biological communities respond to habitat amount gain or loss? Clarice Mendes

Habitat predictors of a vertebrate community in a fragmented Neotropical landscape Keerthikrutha Seetharaman

Tropical dry forest restoration: the effectiveness of fertilization and irrigation Laura Toro

Examining ecological interactions of urban tree & vertebrate species in Delhi, India Vallari Sheel

Apes in space: mapping hunter-great ape overlap in Congo's swamp forests Katherine Meier

# Break

#### 3:00pm Virtual poster session C Land use and landscapes

#### Moderator:

Erin Betley, Biodiversity Specialist, Center for Biodiversity and Conservation, American Museum of Natural History

#### Break 3:40pm

#### Virtual poster session D 3:45pm Conservation in social-ecological contexts

#### Moderator:

Kim Landrigan, Capacity Development Specialist, Center for Biodiversity and Conservation, American Museum of Natural History

# 4:30pm Adjourn

#### Special Public Program 7:00pm SciCafe: Humans, Culture, and Climate Change

How can we better understand the dynamic relationship between humans and their environment over time, especially in a time of rapid climate change?

Kristina Douglass, Assistant Professor of Anthropology and African Studies, The Pennsylvania State University

#### Introduction:

Eleanor Sterling, Jaffe Chief Conservation Scientist, Center for Biodiversity and Conservation, American Museum of Natural History

This event is a collaboration between the AMNH Public Programs and the Center for Biodiversity and Conservation's Mack Lipkin Man and Nature Series.

The Mack Lipkin Man and Nature Series was established in honor of Dr. Mack Lipkin, Sr., by his many friends and admirers. Dr. Lipkin was a physician who was a gentle and powerful force in advancing the most humane and caring practices of medicine.

















### 10:00am Welcome and Introduction

Ana Luz Porzecanski, Director, Center for Biodiversity and Conservation, American Museum of Natural History

#### Talk session 3 10:15am Wildlife harvest and trade

Moderator: Mary Blair, Director, Biodiversity Informatics Research, Center for Biodiversity and Conservation, American Museum of Natural History

The online trade of freshwater turtles and tortoises in the Philippines Antonio Lorenzo II

Corporate actors in high seas fisheries Gabrielle Carmine

Evaluating white-tailed deer management program effectiveness in southeastern NY Ralph Green

Farmed or poached? The trade of live Indonesian birds in the Philippines Josef Job Raymundo

#### Break 11:30am

12:35pm Break

1:00pm

4:00pm Break

### 11:45am Speed talk session 3 Exploring peoples' relationship with nature

#### Moderator:

Peter Galante, Biodiversity Informatics Scientist, Center for Biodiversity and Conservation, American Museum of Natural History

Agriculture, wildlife, and conservation in the Galapagos Islands Francisco Laso

Impacts of socioeconomic drivers on community resilience to human-elephant conflict Lynn Von Hagen

Understanding patterns and dynamics of China's bird markets for improving management Zhijian (Toto) Liang

Waterway: dissolving the limits of scientific language Ayana Harscoet

What we tweet about invasive species: expanding discourse on Japanese knotweed Joseph Jaros

Active or passive learning? How to promote coexistence with felines in the Caatinga Afonso Dinis

Virtual workshops session

4:15pm Awards & closing remarks

4:30pm Adjourn

# Friday October 8, 2021

10:00am	Network and learn: grow your leadership skills for conservatio
11:30am	Break
1:30pm	Workshops
4:30pm	Adjourn



# Workshops

# Thursday

## An Introduction to Conservation Planning: A Participatory Training for Tomorrow's Leaders in Conservation

Organizers: Varsha Suresh & Jaclyn Lucas, Foundations of Success

# Collaborating Across Sectors and the True Nature of Partnering

Organizers: Christina Imrich, Leala Rosen, Conservation Leadership Program, Wildlife Conservation Society; Stuart Patterson, Fauna & Flora International, Conservation Leadership Programme; Kate Mastro, Wildlife Conservation Society; Nina Hadley, Global Wildlife Conservation

# Communicating and Visualizing Data for Conservation

Organizer: Simon Queenborough, Yale School of the Environment

# **Species Distribution Modeling in R and Wallace**

Organizers: Beth Gerstner, Michigan State University; Samuel Chang, Pace University; Gonzalo Pinilla-Buitrago, City College of New York; Matthew Aiello-Lammens, Pace University; Mary Blair, American Museum of Natural History

# Using QGIS for Species Conservation: Mapping Suitable Habitat and Connectivity

Organizers: Manette Sandor, Columbia University & American Museum of Natural History; Peter Galante, American Museum of Natural History

# What I Wish I'd Known About Writing for Journals and Popular Media

Organizers: Andrea DiGiorgio, Princeton Writing Program & Rutgers University; Cathryn Freund, Massive Science



Addressing Causes, Not Symptoms Organizer: David Johns, Portland State University

# **Dugongs and Sea Dragons: Using Game Play** and Storytelling to Engage Diverse Conservation Voices

Organizers: Joshua Drew, State University of New York College of Environmental Science and Forestry; E. Christopher Parsons, University of Exeter

# **Elevating Pitches: Networking for Science and** Academia

Organizers: Sara Kross & Michael Levin, Columbia University

# Statistical Approaches in Conservation: Moving from Correlative to Mechanistic Models

Organizer: Cristian Dambros, Federal University of Santa Maria, Brazil

# What am I Doing with My Life? Career Planning For Conservation Researchers and Practitioners

Organizers: Mary Blair, American Museum of Natural History; Christian Rivera, University of Florida; Alex Moore, Princeton University

# Plenary Speaker

# **Kristina Douglass**

Assistant Professor of Anthropology and African Studies, The Pennsylvania State University

# Our relationship to the environment, past and future: lessons from engaged archaeological research

For the past 18 months the spread of COVID-19 has dominated news cycles and is at the forefront of local, national and international concerns. The coronavirus pandemic is one of many human-driven socio-ecological crises we face as a global community. In August of this year, the United Nations' Intergovernmental Panel on Climate Change (IPCC), an international body of researchers who evaluate and synthesize the science of climate change, released their latest report. The report documents in sobering detail the extent to which our planet's climate is changing due to human activity. And, like the coronavirus pandemic, the climate crisis intersects with and compounds other problems, such as biodiversity loss, and food, energy, and water insecurity. The exceptional challenges of the present moment can seem insurmountable, but they present an opportunity to draw from deeper time and learn how people and ecosystems adapted to changing conditions in the past. I became an archaeologist because I believe in the power of storytelling. Storytelling is fundamental to human evolution and is what defines humans as a species. We have all had the experience of learning from our elders, those who came before us. If we think about it, we have millions of years of cumulative human experience on the planet to learn from. Our ability to pass knowledge from one generation to the next is central to our survival. Archaeology can inform our approaches to contemporary conservation by telling the stories of how ancient peoples shaped landscapes, responded to past climate change, interacted with diverse species of plants and animals, and sustained livelihoods over centuries and millennia.



# Presenters Talks

In alphabetical order by presenter's last name

#### Connecting the dots: Lionfish dispersal between shallow- and deep-water

Montana Airey Cornell University, Ithaca, NY, USA

#### A mixed-methods assessment of human-elephant conflict trends in northw Botswana

Erin Buchholtz<sup>1,3</sup>, Megan McDaniels<sup>2</sup>, Anna Songhurst<sup>3</sup>, Graham McCulloch<sup>3</sup>, Stronza<sup>1,3</sup> <sup>1</sup>Texas A&M University, College Station, TX, USA; <sup>2</sup>Wild Me, Portland, OR, USA; <sup>3</sup>Ecoexist, Maun, NG, Botswa

#### Corporate actors in high seas fisheries

Gabrielle Carmine<sup>1,2</sup>, Juan Mayorga<sup>3,6</sup>, Nathan A. Miller<sup>4</sup>, Jaeyoon Park<sup>4</sup>, Patrick N. Halpin<sup>2</sup>, Guillermo Ortuño Crespo<sup>2</sup>, Henrik Österblom<sup>5</sup>, Enric Sala<sup>6</sup>, Jennifer Jacquet<sup>1</sup> <sup>1</sup>New York University, New York, NY, USA; <sup>2</sup>Duke University, Durham, NC, USA; <sup>3</sup>University of California, Santa Barbara, CA, USA; <sup>4</sup>Global Fishing Watch, Washington, DC, USA; <sup>5</sup>Stockholm University, Stockholm, Sweden; <sup>6</sup>Pristine Seas, National Geographic Society, Washington, DC, USA

#### New empirical evidence on humans' effect on assemblage species richness Victor Cazalis

German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Leipzig, Germany

### Relating American Eel abundance to environmental DNA concentration in the Bronx River Sam Chew Chin<sup>1,2,3</sup>, John Waldman<sup>1,3</sup>, Mike Bednarski<sup>4</sup>, Merry Camhi<sup>5</sup>, Jake LaBelle<sup>5</sup>, S.

#### Elizabeth Alter<sup>1,2,6</sup>

<sup>1</sup>CUNY Graduate Center, New York, NY, USA; <sup>2</sup>York College, Jamaica, NY, USA; <sup>3</sup>Queens College, Queens, NY, USA; <sup>4</sup>Virginia Department of Wildlife Resources, Henrico, VA, USA; <sup>5</sup>Wildlife Conservation Society, Bronx, NY, USA; <sup>6</sup>California State University Monterey Bay, Seaside, CA, USA

Cost-effective auditory detection of coyotes in urban spaces using neural networks Hunter Dillard-Jakubowicz, Peter Galante

American Museum of Natural History, New York, NY, USA

Water quality, biodiversity & ecosystem function of urbanized marine environments Rinaldi Gotama

Chinese University of Hong Kong, Hong Kong

Evaluating white-tailed deer management program effectiveness in southeastern NY Ralph Green III<sup>1</sup>, Danielle Begley-Miller<sup>1,2</sup> <sup>1</sup>Pace University, Pleasantville, NY, USA; <sup>2</sup>Teatown Lake Reservation, Ossining, NY, USA

#### The online trade of freshwater turtles and tortoises in the Philippines

Antonio N. Lorenzo II<sup>1,2</sup>, Emerson Y. Sy<sup>1</sup> <sup>1</sup>TRAFFIC International Southeast Asia, Selangor, Malaysia; <sup>2</sup>University of Santo Tomas, Manila, Philippines

Examining the socio-ecological drivers of human-wolf conflict using occupancy models Prashant Mahajan<sup>1</sup>, Dharmendra Khandal<sup>2</sup> <sup>1</sup>Wildlife Institute of India, Dehradun, India; <sup>2</sup>Tiger Watch, Rajasthan, India

habitats	An integrated approach to prioritize carnivore conservation in shared landscapes
	Mahi Puri <sup>1,2</sup> , Andrew Marx <sup>1</sup> , Hugh P. Possingham <sup>3,4</sup> , Kerrie A. Wilson <sup>5</sup> , Krithi K. Karanth
	Bette A. Loiselle <sup>1,7</sup>
	<sup>1</sup> University of Florida, Gainesville, FL, USA; <sup>2</sup> Centre for Wildlife Studies, Bengaluru, India; <sup>3</sup> The University of Queensla
estern	Brisbane, Qld, Australia; <sup>4</sup> The Nature Conservancy, South Brisbane, Qld, Australia; <sup>5</sup> Institute for Future Environments
	Queensland University of Technology, Brisbane, Qld, Australia; <sup>6</sup> Duke University, Durham, NC, USA; <sup>7</sup> Center for Latin / Studies, University of Florida, Gainesville, FL, USA
Amanda	
	Farmed or poached? The trade of live Indonesian birds in the Philippines
ana	Josef Job Raymundo
	Philippine Center for Terrestrial and Aquatic Research, Hagonoy, Bulacan, Philippines
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# **Presenters** Speed talks

In alphabetical order by presenter's last name

### Orphans without megafauna: can dispersal by water help Malagasy baoba

Seheno Andriantsaralaza<sup>1,2</sup>, Rakouth Bakolimalala<sup>1</sup> <sup>1</sup>University of Antananarivo, Madagascar; <sup>2</sup>Lemur Love, San Diego, CA, USA

#### Habitat disturbance trumps moonlight effects on the activity of tropical bats Giulliana Appel<sup>1,2</sup>, Adrià López-Baucells<sup>2,3,4</sup>, Ricardo Rocha<sup>2,4,5</sup>, Christoph F. J. Mey Estefano D. Bobrowiec<sup>1,2</sup>

<sup>1</sup>Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil; <sup>2</sup>Biological Dynamics of Forest Fragments P Brazil; <sup>3</sup>Granollers Museum of Natural Science, Granollers, Spain; <sup>4</sup>University of Lisbon, Lisbon, Portugal; <sup>5</sup>U Vairão, Portugal; <sup>6</sup>University of Salford, Salford, UK

# Newspaper archives suggest changes in whale species composition in the N

Danielle M. Brown, John Wiedenmann Department of Ecology, Evolution, and Natural Resources, School of Environmental and Biological Science New Brunswick, NJ, USA

Active or passive learning? How to promote coexistence with felines in the Co Afonso Dinis<sup>1</sup>, Ana Rainho<sup>1</sup>, Cláudia B. de Campos<sup>2</sup>, Cláudia Martins<sup>2</sup> <sup>1</sup>Universidade de Lisboa, Lisboa, Portugal; <sup>2</sup>Institute for the Conservation of Neotropical Carnivores – IPC, A

#### Waterway: dissolving the limits of scientific language

Ayana Harscoet Bowdoin College, Brunswick, ME, USA

#### What we tweet about invasive species: expanding discourse on Japanese kn Joseph Jaros<sup>1</sup>, Sara Kuebbing<sup>2</sup> <sup>1</sup>Fordham University, Bronx, NY, USA; <sup>2</sup>University of Pittsburgh, Pittsburgh, PA, USA

#### Agriculture, wildlife, and conservation in the Galapagos Islands

Francisco Laso University of North Carolina at Chapel Hiil, Chapel Hill, NC, USA

#### Understanding patterns and dynamics of China's bird markets for improving management

Zhijian Liang, Tien Ming Lee Sun Yat-sen University, Guangzhou, Guangdong, China

#### Apes in space: mapping hunter-great ape overlap in Congo's swamp forests Katherine Meier

Yale University, New Haven, CT USA

## How do biological communities respond to habitat amount gain or loss? Clarice Mendes, Jayme Prevedello

State University of Rio de Janeiro, Rio de Janeiro, Brazil

# Habitat predictors of a vertebrate community in a fragmented Neotropical landscape Keerthikrutha Seetharaman

University of British Columbia, Vancouver, BC, CA

bs to survive?	Examining ecological interactions of urban tree & vertebrate species in Delhi, Indi Vallari Sheel, Madhusudan Katti North Carolina State Univeristy, Raleigh, NC, USA
yer <sup>2,6</sup> , Paulo	Pleistocene fossils recontextualize the ecology of introduced turkeys in California Ashwin Sivakumar <sup>1</sup> , Alexis Mychajliw <sup>2,3</sup> <sup>1</sup> Flintridge Preparatory School, La Canada Flintridge, CA, USA; <sup>2</sup> Middlebury College, Middlebury, VT, USA; <sup>3</sup> La Brec Museum, Los Angeles, CA, USA
Project, Manaus, Jniversity of Porto, <b>Y Bight</b>	Tropical dry forest restoration: the effectiveness of fertilization and irrigation Laura Toro <sup>1</sup> , Francisco Torres-Romero <sup>2</sup> , Jennifer S. Powers <sup>1</sup> <sup>1</sup> University of Minnesota, St. Paul, MN, USA; <sup>2</sup> Fundacion Natura, Colombia
es, Rutgers University,	Introduced rats ( <i>Rattus rattus</i> ) in Puerto Rico, seed dispersers or seed predators? Beth Kaplin <sup>1</sup> , Tomás Carlos–Joglar <sup>2</sup> , Johanna Delgado–Acevedo <sup>3</sup> , Jahdiel Torres–Cak <sup>1</sup> Antioch University, Keene, NH, USA; <sup>2</sup> Penn State University, State Collage, PA, USA; <sup>3</sup> Texas A&M University, Commen
<b>aatinga</b> Atibaia, SP, Brasil	Distribution and current status of the largetooth sawfish in Costa Rica Jorge A. Valerio–Vargas <sup>1,2</sup> , Mario Espinoza <sup>1,2</sup> <sup>1</sup> Centro de Investigación en Ciencias del Mar y Limnología (CIMAR), Universidad de Costa Rica, 2060, San José, Co <sup>2</sup> Universidad de Costa Rica, 2060, San José, Costa Rica
otweed	Impacts of socioeconomic drivers on community resilience to human-elephant co Lynn Von Hagen Auburn University, Auburn, AL, USA
	<b>Transgenes of genetically modified animals detected via environmental DNA</b> <b>Charles C.Y. Xu<sup>1,2</sup>, Claire Ramsay<sup>2</sup>, Mitra Cowan<sup>3</sup>, Paul Lasko<sup>2</sup>, Rowan D.H. Barrett<sup>1,2</sup></b> <sup>1</sup> Redpath Museum, McGill University, Montreal, Quebec, Canada; <sup>2</sup> McGill University, Montreal, Quebec, Canada; <sup>3</sup> Integrated Core for Animal Modeling (MICAM), McGill University, Montreal, Quebec, Canada



### Tar Pits

ba rce, TX, USA

#### Costa Rica;

#### onflict

<sup>3</sup>McGill

# **Presenters** Posters

In alphabetical order by presenter's last name

# **Session** A

### Testing the consistency of hybridization outcomes between two damselflies Rosa Sánchez-Guillén<sup>1,2</sup>, Luis Arce-Valdés<sup>1</sup>, Janne Swaegers<sup>2,3</sup>, Maren Weller

#### Bengt Hansson<sup>2</sup>

<sup>1</sup>Instituto de Ecología A.C., Xalapa, Veracruz, Mexico; <sup>2</sup>Lund University, Lund, Scania, Sweden; <sup>3</sup>KU Leuven, Brabant, Belgium; <sup>4</sup>The New Zealand Institute for Plant & Food Research Ltd, Nelson City, Nelson, New Zec Auckland, Auckland, Auckland, New Zealand

#### SSF analysis of lions reveals broad- and nuanced fine-scale movement patt Mary Burak

Yale University, New Haven, CT, USA

## Observing North Atlantic right whale calling activity via passive acoustic mo Marissa Garcia

Harvard University, Cambridge, MA, USA

#### Microhabitat partitioning by two sympatric cleaner gobies in Barbados Jeniece Germain, Henri Valles

University of the West Indies, Cave Hill, Barbados

# Historical structure in African leopards (Panthera pardus) across sub-Saha

Danielle M. Lema<sup>1</sup>, Corey Anco<sup>3</sup>, Alexis Neffinger<sup>1</sup>, Evon Hekkala<sup>1,2</sup> 1Fordham University, Bronx, NY, USA; 2American Museum of Natural History, New York, NY, USA; 3Draper I Museum, Cody, WY, USA

#### Estimating the location of genetic divergence using machine learning

Rilquer Mascarenhas da Silva City College of New York, NY, USA

## Assessing genetic diversity of greater one-horned rhinoceros of Nepal

Abhinaya Pathak<sup>1,2</sup>, Yu-Cheng Hsu<sup>2</sup>, Amir Sadaula<sup>3</sup>, Janardan Joshi<sup>3</sup>, Kamal Pras Ram Chandra Kandel<sup>4</sup>, Prashamsa Paudel<sup>5</sup>

<sup>1</sup>Department of National Parks and Wildlife Conservation, Babarmahal, Kathmandu, Nepal; <sup>2</sup>National Dor Taiwan; <sup>3</sup>National Trust for Nature Conservation, Kathmandu, Nepal; <sup>4</sup>Ministry of Industry, Tourism, Forest of Province 2, Nepal; <sup>5</sup>Tribhuwan University, Kritipur, Nepal

# Evaluating butterfly wing traits in a novel environment devoid of forest birds

Christiana-Jo Quinata, Haldre Rogers Iowa State University, Ames, IA, USA

#### Comparing methods of surface area and mass estimations of large marine m

Milagros Rivera University of California, Santa Cruz, CA, USA

#### Does training prey to avoid predators work? A meta-analysis

Jennifer Zhu<sup>1,2</sup>, J. Stephen Gosnell<sup>2,1</sup>, Laila Akallal<sup>2</sup>, Micah Goltsman<sup>2</sup>, Chelsea We <sup>1</sup>The Graduate Center City University of New York, NY, USA; <sup>2</sup>Baruch College CUNY, New York, NY, USA

# Session **B**

in Spain	Can increased anthropization modify the vocalization of the Guiana dolphin?
nreuther <sup>4,5</sup> ,	<b>Teresa Belderrain<sup>1,2</sup>, Rodrigo Tardin<sup>2,3</sup>, Maria Alice dos Santos Alves<sup>2</sup>, Israel Maciel<sup>1,2</sup></b> <sup>1</sup> Universidade Federal Rural do Rio de Janeiro, Seropédica, Rio de Janeiro, Brazil; <sup>2</sup> Universidade do Estado do Rio d
Leuven, Flemish	Rio de Janeiro, Brazil; <sup>3</sup> Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil
aland; <sup>5</sup> University of	Using species' traits to improve extinction risk assessments
	Minali Bhatt
terns	Michigan State University, East Lansing, MI, USA
	Use of social media to investigate den disturbance by humans
onitoring	<b>Tammy Cloutier<sup>1</sup>, Gregory Rasmussen<sup>2</sup>, Anthony Giordano<sup>3</sup>, Beth Kaplin<sup>4</sup>, Lisabeth W</b> <sup>1</sup> Antioch University New England, Keene, NH USA; <sup>2</sup> Painted Dog Research Trust, Sizinda, Zimbabwe; <sup>3</sup> SPECIES, Ventu USA; <sup>4</sup> University of Rwanda, Kigali, Rwanda
	Impacts of giant tortoise introduction on terrestrial wildlife: Santa Fe, Galapagos
	Elizabeth Fuhrman
	SUNY College of Environmental Science and Forestry, Syracuse, NY, USA
	Bat navigation pulse adjustments in response to urban ultrasonic background noise
ran Africa	Corinne Hultman
	Fordham University, New York, NY, USA
Natural History	Historical maps provide insight into a century and a half of habitat change in Fiji
	Katherine Lawson
	SUNY College of Environmental Science and Forestry, Syracuse, NY, USA
	Setting conservation priorities for endangered birds in Ecuador
	Wilderson Medina, Stuart Pimm
	Duke University, Durham, NC, USA
sad Gairhe <sup>1</sup> ,	Managing with logic in the Monarch Reserve
ng Hwa University,	Miramanni Mishkin
and Environment,	Universidad Nacional Autonoma de Mexico, Morelia, Michoacán de Ocampo, Mexico
	Incorporating anthropogenic disturbance into SDMs of the common woolly monkey
	Ariek Barakat Norford, H. Resit Akçakaya
	Stony Brook University, Stony Brook, NY, USA
	When a leopard met a human: examining leopard attacks on people in Himachal Prade
nammals	Shweta Shivakumar <sup>1</sup> , Vidya Athreya <sup>2</sup> , Morten Odden <sup>3</sup> , Sat Pal Dhiman <sup>4</sup> , Srinivas
	Vaidyanathan <sup>5</sup> , Krithi K. Karanth <sup>1,6</sup>
	<sup>1</sup> Centre for Wildlife Studies, Bangalore, India; <sup>2</sup> Wildlife Conservation Society- India, Bangalore, India; <sup>3</sup> Inland Norway
	Applied Sciences, Elverum, Norway; <sup>4</sup> Joint Secretary (Forests) to the Government of Himachal Pradesh, HP, India; <sup>5</sup> Fou Ecological Research Advocacy and Learning, Bangalore, India; <sup>6</sup> The Nicholas School of Environment, Duke University,
epy <sup>2</sup> , Victor Siev <sup>2</sup>	
	Fishing for answers: analysis of tuna fishery responses for Mobula bycatch mitigatio
	Jennifer Waldo, Melissa Cronin

University of California – Santa Cruz, Santa Cruz, CA, USA

de Janeiro,



lesh, India



on

# **Presenters** Posters

In alphabetical order by presenter's last name

# Session C

#### Species spatial uncertainty effects on the IUCN Red List Criterion B metrics Samuel Chang Triguero Pace University, Pleasantville, NY, USA

Microhabitat preferences of mated female fireflies with and without light pollution Caroline Dressler Brown University, Providence, RI, USA

# Fitness landscapes are flexible, powerful tools for conservation management

Max Gotts<sup>1,2,3</sup>, George Shillinger<sup>2,4</sup> <sup>1</sup>Princeton University, Princeton, NJ, USA; <sup>2</sup>Upwell Turtles, Monterey, CA, USA; <sup>3</sup>Lost Years Institute, MillValley, CA, USA, University, Pacific Grove, CA, USA

### Land use as a driver of fish community changes in New York's Oswego River Watersk Kate Henderson

SUNY College of Environmental Science and Forestry, Syracuse, NY, USA

#### Aren't you dying to know? The ecological role of small cemeteries in New York City Lily Kunkel New York University, New York, NY, USA

# Evidences on the evolutionary transition of Miconia (Melastomataceae) in the Andes

Naisla Manrique-V.<sup>1</sup>, Isabela Galarda Varassin<sup>2</sup>, Luan Salles Pasos<sup>2</sup>, María Eugenia Mor <sup>1</sup>Universidad Pedagógica y Tecnológica de Colombia, Tunja, Boyacá, Colombia; <sup>2</sup>Universidade Federal do Paraná, Politécnico, Curitiba, Paraná, Brazil

### Environmental impacts on invasive aquatic plants in the lower Hudson region

**Teresa Pacelli** Pace University, Pleasantville, NY, USA

#### Ecological niche models can guide biodiversity surveys for parasites species Morgan Starlight<sup>1</sup>, Erica E. Johnson<sup>1,2</sup>

<sup>1</sup>City College of New York, City University of New York, New York, NY, USA; <sup>2</sup>The Graduate Center of the City University York, New York, NY, USA

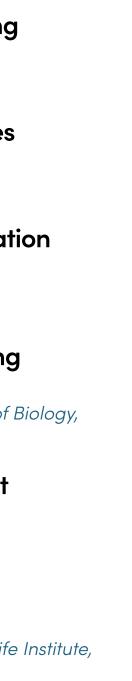
# The role of urbanization in rodent diversity in a small city in Chiapas, Mexico Gloria Tapia

El Colegio de La Frontera Sur, San Cristóbal de Las Casas, Chiapas, Mexico

# **Session** D

	Focal area choices impact equity and efficiency in systematic conservation planning Karen Dietrich University of Northern British Columbia, Prince George, British Columbia, Canada
	Synthetic review: Mobula ray bycatch in tuna fisheries and best mitigation practices Jeannie Johnson, Katherine Seto, Melissa Cronin University of California Santa Cruz, Santa Cruz, CA, USA
; <sup>4</sup> Stanford	Madagascar's magic bullet? Ecotourism for lemur conservation and poverty alleviat Cecilia H. Kim, Andrea L DiGiorgio Princeton University, Princeton, NJ, USA
ned	<b>Optimism and pessimism influence donation behavior differently by political leaning</b> <b>Darius Mahdavi<sup>1</sup>, Daniel K. Riskin<sup>2</sup>, Shelby H. Riskin<sup>1</sup></b> <sup>1</sup> Department of Ecology and Evolutionary Biology, University of Toronto, Toronto, Ontario, Canada; <sup>2</sup> Department of B University of Toronto Mississauga, Mississauga, Ontario, Canada
	<b>Collaboration, practicality, and success in the SWCC's Carnivore Monitoring Project</b> <b>Tatum McConnell<sup>1</sup>, Matthew Palmer<sup>1</sup>, Rob Rich<sup>2</sup></b> <sup>1</sup> Columbia University, New York, NY, USA; <sup>2</sup> Swan Valley Connections, Condon, MT, USA
s ales-P. <sup>1</sup> Centro	Human-wildlife coexistence: mange in urban canids Bahar Pahlevani <sup>1</sup> , Maureen Murray <sup>2</sup> <sup>1</sup> Tufts University Cummings School of Veterinary Medicine, North Grafton, MA, USA; <sup>2</sup> Lincoln Park Zoo Urban Wildlife Chicago, IL, USA
	Supporting Justice, Equity, Diversity, and Inclusion in Environmental Science Racine Robinson Pace University, New York, NY, USA
ty of New	<b>Conservation in real life: a tale of a socio-cultural and political forcefield</b> Johannes Neumann Richard Gilder Graduate School, American Museum of Natural History, New York, NY, USA

How to live in equilibrium with nature: sharing Indigenous knowledge Fidelia Morales Marin Stibrawpa, Yorkin, Limón, Costa Rica



# SCCS-NY Advisors, Reviewers, Mentors

Special thanks are due to all those who have given so generously of their time and talents to advise, review, and mentor. They include: Matthew Aiello-Lammens Pace University

**Dan Ardia** Franklin & Marshall College

**Felicity Arengo** American Museum of Natural History

**Daniel Baldassarre** The State University of New York Oswego

**Erin Betley** American Museum of Natural History

Mary Blair American Museum of Natural History

Adriana Bravo University of Toronto

Samantha Cheng American Museum of Natural History

John Cigliano Cedar Crest College

**Christina Colon** *Kingsborough Community College* 

**Sunny Corrao** NYC Department of Parks and Recreation

**Georgina Cullman** NYC Department of Parks and Recreation

**Stephanie Cziczo** New York University

**Kristin Douglas** American Museum of Natural History

**Diego Ellis Soto** Yale School of the Environment **Wendy Erb** Cornell Lab of Ornithology

**Nick Friedenberg** *Corteva Agroscience* 

Helen Fox Coral Reef Alliance

**David Johns** Portland State University

**Peter Galante** American Museum of Natural History

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**Evon Hekkala** Fordham University; American Museum of Natural History

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**Christian Rivera** University of Florida

**Dan Rubenstein** Princeton University

> **Kimberley Russell** *Rutgers University*

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**Amanda Sigouin** *American Museum of Natural History*  **Jill Spear** National Geographic Society

**Eleanor Sterling** *American Museum of Natural History* 

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**Mike Treglia** The Nature Conservancy

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# 15 ស្រ្តី American Museum ច Natural History

# **Center for Biodiversity and Conservation**

The Center for Biodiversity and Conservation (CBC) at the American Museum of Natural History was established in 1993 in response to concern among its scientists over rapid species loss and increasing ecosystem degradation around the world, and to leverage Museum resources to heighten public understanding and stewardship of biodiversity. Entering its third decade, the CBC transforms knowledge into conservation action through pioneering multidisciplinary collaborative research, capacity development, and by convening and connecting key actors. The CBC has developed a distinctive approach, fostering co-creative processes with strategic partners across all of our programs and projects. CBC staff members, including multiple conservation scientists and outreach specialists, work closely with communities and local partners to establish common goals and research priorities; design, implement, evaluate, and adaptively manage model conservation programs; and share results with people facing similar challenges. Thus our work spans the full cycle of conservation action, connecting diverse perspectives and sources of knowledge to conservation problems and solutions.

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