Student Conference on Conservation Science - New York

October 2–4, 2019
Student Conference on Conservation Science – New York
October 2-4, 2019
American Museum of Natural History

The 2019 Student Conference on Conservation Science – New York is organized by the Center for Biodiversity and Conservation at the American Museum of Natural History.

Major funding for the 2019 Student Conference on Conservation Science has been provided by Marshall M. Weinberg.

Conference Partners:

Conference Contributors:
Pace University

Conference Prize Contributors:
Yale University Press
Applied Biomathematics
Society for Conservation Biology
Student Conference on Conservation Science – New York
October 2-4, 2019
American Museum of Natural History

Table of Contents

Acknowledgments ........................................................................................................................................ 4
General Information .................................................................................................................................. 5
Code of Conduct ........................................................................................................................................ 6
Conference Agenda ................................................................................................................................. 8
Plenarists .................................................................................................................................................. 15
Guide to Posters ....................................................................................................................................... 16
Advisers, Reviewers, and Mentors ............................................................................................................ 19
Notes ......................................................................................................................................................... 21
Museum Map ............................................................................................................................................ 22

Full presentation abstracts are available on the SCCS–NY website: www.amnh.org/sccsny

Follow us on Facebook! facebook.com/CBC.AMNH

Join the conversation on Twitter! #sccsny2019

Follow us on Twitter! @CBC_AMNH
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 Student Conference on Conservation Science–New York 2019 (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 2019 is organized by the American Museum of Natural History’s Center for Biodiversity and Conservation (CBC).

SCCS–NY Content and Logistics Coordination:
Felicity Arengo
Hellin Brink
Jennifer Butler
Kristin Douglas
Nadav Gazit
Margaret Law
Ana Luz Porzecanski
Eleanor Sterling

Technology Coordinators:
Tony Alexander
Pete Ersts

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

Photography and Film Recording Policies

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 communication online (and in person!). 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.

Wireless Internet Access:
Please follow these steps to access the AMNH-GUEST network:
1. Open the menu of wireless networks on your device.
2. Select AMNH-GUEST from the networks presented and connect.
3. Your wireless device should automatically present you with a web page asking you to accept the terms and conditions for the use of AMNH-GUEST. Click on the “accept” button at the top right of the screen to complete your connection.
4. If the Terms and Conditions page is not automatically presented by your system, open your web browser and attempt to connect to a web page. Your browser will be redirected to the Terms and Conditions page. Click on the “accept” button at the top right of the screen to complete your connection.

Conference attendees receive a 10% discount in all museum shops with conference badge.
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 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 conference-related social events, and in related online communities and social media.

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 your own.
- Be respectful in your critique of ideas.
- Be mindful of your surroundings and of your fellow participants. Alert CBC staff if you notice a dangerous situation or someone in distress.
- Respect the rules and policies of all venues associated with the meeting.
- Uphold and support the CBC’s commitment and actions to improve the event’s environmental and social impacts.
- Behave in accordance with professional standards and applicable laws.

Unacceptable Behavior

- 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 Federal law.
- Sexual language and imagery, or any other potentially harassing material or behavior including but not limited to verbal comments, intimidation, inappropriate physical contact or unwelcome sexual attention, are not permitted at the conference and may not be incorporated into the demos or presentations.
- 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 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 organized by the CBC.

Consequences

- Anyone requested to stop unacceptable behavior is expected to comply immediately.
- CBC staff (or their designees) or Museum Security 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.
Code of Conduct

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 on-site (in-person, by phone, or by email). CBC staff can be identified by the blue ribbon on their conference ID badge.

- Visit our information desk in the conference registration area.
- Call +1-212-769-5742.
- Email biodiversity@amnh.org.
- 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 security or local law enforcement.
- Contacting AMNH Title IX officers in Human Resources:
  - Kala Harinarayanan: +1-212-769-5226, kharinarayanan@amnh.org
  - Daniel Scheiner: +1-212-769-5109, dscheiner@amnh.org
- Assisting those experiencing unacceptable behavior to ensure that they feel safe for the duration of the conference.
# Agenda: Wednesday, October 2nd

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00am</td>
<td>Registration and Volunteer Check-In</td>
<td>77th Street Lobby</td>
</tr>
<tr>
<td></td>
<td>Breakfast</td>
<td>Grand Gallery</td>
</tr>
<tr>
<td></td>
<td>Poster drop-off</td>
<td></td>
</tr>
<tr>
<td>9:00am</td>
<td>Welcome and Introduction</td>
<td>Kaufmann Theater</td>
</tr>
<tr>
<td></td>
<td>Ana Luz Porzecanski, Director, Center for Biodiversity and Conservation, American Museum of Natural History</td>
<td></td>
</tr>
<tr>
<td>9:15am</td>
<td>Plenary Address</td>
<td>Kaufmann / Linder Theaters</td>
</tr>
<tr>
<td></td>
<td>Dekila Chungyalpa, Director, Loka Initiative</td>
<td></td>
</tr>
<tr>
<td>10:00am</td>
<td>Talk Session: Community Perspectives in Conservation</td>
<td>Kaufmann / Linder Theaters</td>
</tr>
<tr>
<td></td>
<td>Session Chair: Ana Luz Porzecanski, Director, Center for Biodiversity and Conservation, American Museum of Natural History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chloe Chen-Kraus, Yale University</td>
<td>Human-lemur coexistence at Bezà Mahafaly Special Reserve, southwest Madagascar</td>
</tr>
<tr>
<td></td>
<td>Hongying Li, EcoHealth Alliance/Kingston University</td>
<td>The presence and community perspective of Chinese pangolin in Zhengjiang, China</td>
</tr>
<tr>
<td></td>
<td>Ann Marie Gawel, Iowa State University</td>
<td>Perceptions of invasive species in an American island territory</td>
</tr>
<tr>
<td>10:55am</td>
<td>Break</td>
<td>Spitzer Hall of Human Origins</td>
</tr>
<tr>
<td>11:15am</td>
<td>Talk Session: Species Conservation</td>
<td>Kaufmann / Linder Theaters</td>
</tr>
<tr>
<td></td>
<td>Session Chairs: Jill Spear, Program Officer &amp; Arslan Ahmad, Associate Program Officer, Research and Conservation Grants, National Geographic Society</td>
<td></td>
</tr>
<tr>
<td></td>
<td>David Chiawo, Strathmore University</td>
<td>Ecological responses of grey crowned crane to Kenya’s climate change scenarios</td>
</tr>
<tr>
<td></td>
<td>Morgan Bragg, George Mason University</td>
<td>Linking the gut microbiome and inflammatory bowel disease in captive red wolves</td>
</tr>
<tr>
<td></td>
<td>Anh Tuan Nguyen, Hanoi University of Science</td>
<td>Ecological niche modeling for conservation of the Annamite striped rabbit</td>
</tr>
<tr>
<td>12:05pm</td>
<td>Group Photo</td>
<td>Location to be announced</td>
</tr>
<tr>
<td>12:45pm</td>
<td>Lunch: Mentor-Hosted Tables</td>
<td>School Lunchrooms, Lower Level</td>
</tr>
</tbody>
</table>
## Agenda: Wednesday, October 2nd

### 2:15pm Speed Talk Session: Approaches to Landscape and Seascape Conservation

**Kaufmann / Linder Theaters**

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

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patricia Ruggiero</td>
<td>Political cycles drive deforestation in the Brazilian Atlantic Forest</td>
</tr>
<tr>
<td>University of São Paulo</td>
<td></td>
</tr>
<tr>
<td>Lauren Kim</td>
<td>Food forest stories: promoting urban biodiversity and reimagining public space</td>
</tr>
<tr>
<td>Yale University</td>
<td></td>
</tr>
<tr>
<td>Patrick Shea</td>
<td>Comparing visual and genetic methods for Hawaiian coral reef biodiversity assessment</td>
</tr>
<tr>
<td>The Graduate Center, CUNY</td>
<td></td>
</tr>
<tr>
<td>Jewel Tomasula</td>
<td>Chronic nutrient disturbance intensifies herbivory affecting salt marsh dieback</td>
</tr>
<tr>
<td>Georgetown University</td>
<td></td>
</tr>
<tr>
<td>Laura Figueroa</td>
<td>Monitoring conservation agreements in India: constraints between theory and practice</td>
</tr>
<tr>
<td>Cornell University</td>
<td></td>
</tr>
<tr>
<td>Amy Gage</td>
<td>Parthenocissus quinquefolia - a 'workhorse' for coastal restoration</td>
</tr>
<tr>
<td>Rutgers University</td>
<td></td>
</tr>
</tbody>
</table>

### 3:00pm Speed Talk Session: Species Conservation

**Kaufmann / Linder Theaters**

**Session Chair:** Alex Moore, Postdoctoral Conservation Research and Teaching Fellow, American Museum of Natural History

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mia Keady</td>
<td>Infertility and the gut microbiome of captive African and Asian elephants</td>
</tr>
<tr>
<td>George Mason University and Smithsonian Center for Conservation Genetics</td>
<td></td>
</tr>
<tr>
<td>Jared Meek</td>
<td>Phylogeography and conservation of endemic Pedicularis in the Hengduan Mountains</td>
</tr>
<tr>
<td>Columbia University</td>
<td></td>
</tr>
<tr>
<td>Mae Lowe Diesmos</td>
<td>Status and conservation of limestone karst frogs from the Philippines</td>
</tr>
<tr>
<td>De La Salle University</td>
<td></td>
</tr>
<tr>
<td>Hammed Akande</td>
<td>Autocorrelation and non-stationarity effect on bird species richness in Ontario, CA</td>
</tr>
<tr>
<td>McGill University</td>
<td></td>
</tr>
<tr>
<td>Adriana Eugene</td>
<td>Estimating diamondback terrapin population sizes: using a parasite as proxy</td>
</tr>
<tr>
<td>Hofstra University</td>
<td></td>
</tr>
</tbody>
</table>

### 3:35pm Speed Talk Discussion and Break

**Spitzer Hall of Human Origins**
Agenda: Wednesday, October 2\textsuperscript{nd}

4:15pm  
**Talk Session: Approaches to Forest Conservation**  
*Kaufmann / Linder Theaters*

Session Chair: **Leo Douglas**, *Clinical Assistant Professor, Liberal Studies, New York University*

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachel Friedman</td>
<td>Is community forest management an equitable conservation solution?</td>
</tr>
<tr>
<td>University of Queensland</td>
<td></td>
</tr>
<tr>
<td>Siqi Liang</td>
<td>The biodiversity impacts of active reforestation: a meta-analysis</td>
</tr>
<tr>
<td>Duke Kunshan University</td>
<td></td>
</tr>
<tr>
<td>Adrian Gonzalez</td>
<td>Forest cover contributes to yield stability of pollinator dependent crops</td>
</tr>
<tr>
<td>Universidade de São Paulo</td>
<td></td>
</tr>
<tr>
<td>Julia Barreto</td>
<td>Biodiversity responses to deforestation and fragmentation in the Atlantic Forest</td>
</tr>
<tr>
<td>University of São Paulo</td>
<td></td>
</tr>
</tbody>
</table>

5:30pm–7:30pm  
**Poster Session, Resource and Career Fair + Pizza Reception**  
*Milstein Hall of Ocean Life*

Poster presenters are asked to be at their posters for in-depth discussion with mentors and attendees between 6:00-7:00pm.

Network and gather information about future careers and resources in conservation science!

**Resource and Career Fair Exhibitors:**

- Center for the Study of Pinniped Ecology and Cognition (C-SPEC)
- Conservation Leadership Programme
- Consortium for Inter-Disciplinary Environmental Research
- City University of New York – Ecology, Evolutionary Biology, and Behavior (CUNY-EEB)
- Cold Spring Harbor Laboratory DNA Learning Center
- EcoHealth Alliance
- Environmental Leadership Program (ELP)
- International Union for Conservation of Nature (IUCN)
- National Geographic Society
- Network of Conservation Educators and Practitioners (NCEP)
- Nelson Institute for Environmental Studies
- NYC Parks – Wildlife Unit
- Ocean Conservancy
- Point Blue Conservation Science
- RAY Marine Conservation Diversity Fellowship
- Richard Gilder Graduate School (RGGS)
- Society for Conservation Biology (SCB)
- Student Conservation Association (SCA)
- The American Council for an Energy-Efficient Economy (ACEEE)
- Turtle Conservancy
- Wildlife Conservation Society – Marine Program
- Wiley
- Women in Natural Sciences (WINS)
- WWF – Education for Nature Program
- Yale University Press
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00am</td>
<td>Registration and Volunteer Check-In</td>
<td>77th Street Lobby</td>
</tr>
<tr>
<td></td>
<td>Breakfast</td>
<td>Grand Gallery</td>
</tr>
<tr>
<td>9:00am</td>
<td>Introduction</td>
<td>Kaufmann Theater</td>
</tr>
<tr>
<td></td>
<td>Eleanor Sterling, Jaffe Chief Conservation Scientist, Center for Biodiversity and Conservation, American Museum of Natural History</td>
<td></td>
</tr>
<tr>
<td>9:05am</td>
<td>Plenary Address</td>
<td>Kaufmann / Linder Theaters</td>
</tr>
<tr>
<td></td>
<td>Martín Mendez, Director, Southern Cone - Patagonia, Wildlife Conservation Society</td>
<td></td>
</tr>
<tr>
<td>9:50am</td>
<td>Talk Session: Conservation in Human-Dominated Landscapes</td>
<td>Kaufmann / Linder Theaters</td>
</tr>
<tr>
<td></td>
<td>Session Chair: Eleanor Sterling, Jaffe Chief Conservation Scientist, Center for Biodiversity and Conservation, American Museum of Natural History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Annesha Chowdhury, Manipal Academy of Higher Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Conservation through certification of cash crops: skirting non-charismatic species?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Christian Schneider, Leipzig University</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Is small-scale peasant agriculture good for soil conservation?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kate Douthat, Rutgers University</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plant communities and conservation potential of urban stormwater systems</td>
<td></td>
</tr>
<tr>
<td>10:40am</td>
<td>Break</td>
<td>Spitzer Hall of Human Origins</td>
</tr>
<tr>
<td>11:00am</td>
<td>Talk Session: Conservation Genetics and Genomics</td>
<td>Kaufmann / Linder Theaters</td>
</tr>
<tr>
<td></td>
<td>Session Chair: George Amato, Director, Conservation Genomics, Sackler Institute for Comparative Genomics, American Museum of Natural History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stephen Gaughran, Yale University</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Population genomic modelling as a way to inform recovery goals in endangered species</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Melina Giakoumis, The Graduate Center, CUNY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Genomic data reveal history of divergence and introgression in Atlantic sea-stars</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nicole Fusco, Fordham University</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Genetic connectivity of salamanders in stream systems in the NYC metro area</td>
<td></td>
</tr>
<tr>
<td>12:00pm</td>
<td>Lunch: Mentor-Hosted Tables</td>
<td>School Lunchrooms, Lower Level</td>
</tr>
</tbody>
</table>
1:30pm  Speed Talk Session: Species Conservation  
Kaufmann / Linder Theaters

Session Chair: Pete Galante, Biodiversity Informatics Specialist, Center for Biodiversity and Conservation, American Museum of Natural History

Alexandra Decandia  
Princeton University  
Microbial diversity and its implications for disease in an endemic fox population

Michael Levin  
Columbia University  
Altered Pantanal: drivers of ocelot density in a human dominated wetland

Akshit Suthar  
Gujarat Ecology Society  
Smooth-coated otter of Gujarat: from brink to the extinction to population recovery

Miao Hu  
Duke University  
Monitoring activity rhythms of Martes flavigula using camera traps in Sichuan, China

Brian O’Toole  
Fordham University  
Reconstructing the genomic diversity of a Sub-Saharan bat using archival collections

Angela Lu Arellano  
The Little Farm House at Holistic Education and Development Center  
Palawan spiny rat (Maxomys panglima) ecological niche

2:15pm  Speed Talk Session: Social Dimension in Conservation  
Kaufmann / Linder Theaters

Session Chair: Mark Birchette, Visiting Scientist, Center for Biodiversity and Conservation, American Museum of Natural History

Natalia Piland  
University of Chicago  
We think there’s no nature in cities, but are interested in learning more

Ohene Boakye Adomako  
Capacity for Sustainable Change- Ghana  
Dimensions of bat meat trade and consumption in Ghana

Jingjing Xu  
Duke Kunshan University  
Illegal wildlife trade assisted by overseas tourism in Southeast Asia

Miranda Bernard  
Arizona State University  
Perception of environmental well being in a small coastal fishing community

Xue Dong  
State University of NY College of Environmental Science and Forestry  
Investigating the impact on visitors’ environmental behavior using interpretive media

Melissa Cronin  
University of California, Santa Cruz  
A global comparison of fisheries policies to reduce industrial elasmobranch bycatch

2:55pm  Speed Talk Discussion and Break  
Spitzer Hall of Human Origins
3:30pm  **Talk Session: Conservation in Marine Systems**  
*Kaufmann / Linder Theaters*

**Session Chair:** Felicity Arengo, Associate Director, Center for Biodiversity and Conservation, American Museum of Natural History

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alex Borowicz</td>
<td>Augmenting fieldwork: finding whales from space in a new age of ecological data</td>
</tr>
<tr>
<td>Stony Brook University</td>
<td></td>
</tr>
<tr>
<td>Beryl Kahn</td>
<td>A holistic approach to spatial variation and adaptation in Eastern oysters</td>
</tr>
<tr>
<td>Columbia University</td>
<td></td>
</tr>
<tr>
<td>John Bohorquez</td>
<td>Categorizing global MPAs: a cluster analysis approach</td>
</tr>
<tr>
<td>Stony Brook University</td>
<td></td>
</tr>
<tr>
<td>Monique Sosnowski</td>
<td>Getting away with fish: an analysis of global transshipment activity</td>
</tr>
<tr>
<td>John Jay College of Criminal Justice &amp; The Graduate Center, CUNY</td>
<td></td>
</tr>
</tbody>
</table>

5:00pm  **Award Ceremony and Closing Reception**  
*Cullman Hall of the Universe*

Closing remarks and awards presentation for best talks, speed talks, and posters by Ana Luz Porzecanski, Director, Center for Biodiversity and Conservation, American Museum of Natural History and Felicity Arengo, Associate Director, Center for Biodiversity and Conservation, American Museum of Natural History.

We thank Yale University Press, Applied Biomathematics, Fauna & Flora International–Cambridge University Press and Oryx—The International Journal of Conservation for their generous donation of conference prizes.

6:00pm–8:00pm  **Special Evening Event**  
*Mack Lipkin Man and Nature Series Panel Discussion*  
*Cullman Hall of the Universe*

**In the spirit of collaboration: voices from ecology, the arts, and faith-led approaches to nature conservation**

With panelists:
- Dekila Chungyalpa, Director, Loka Initiative
- Martín Mendez, Director, Southern Cone - Patagonia, Wildlife Conservation Society
- Madhur Anand, Poet & Professor, Global Ecological Change (GEC) & Sustainability Laboratory, School of Environmental Sciences, University of Guelph

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

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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Led by</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30am</td>
<td><strong>Workshop Check-In</strong> (coffee + tea available)</td>
<td><strong>Grand Gallery</strong></td>
<td></td>
</tr>
<tr>
<td>9:00am - 12:00pm</td>
<td><strong>Workshop Session I</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elevating Pitches: Networking for Science and Academia</td>
<td>Linder Theater, 1st Floor</td>
<td>Michael Levin and Sara Kross (Columbia University)</td>
</tr>
<tr>
<td></td>
<td><strong>Fundraising 101: Tools and Strategies to Raise Funds Through Grants and Scholarships</strong></td>
<td>Sackler Lab, 1st Floor</td>
<td>Kate Mastra (Wildlife Conservation Society), Christina Imrich (Wildlife Conservation Society—Conservation Leadership Programme), Jill Spear (National Geographic Society), Arslan Ahmad (National Geographic Society)</td>
</tr>
<tr>
<td></td>
<td>Making Decision Makers Save Biodiversity</td>
<td>Calder Lab, 2nd Floor</td>
<td>David Johns (Portland State University; Wildlands Network; Marine Conservation Institute)</td>
</tr>
<tr>
<td></td>
<td>Species Distribution Modeling for Conservation in R and Wallace</td>
<td>RGGS Lab, 5th Floor</td>
<td>Matthew Aiello-Lammens (Pace University), Peter Galante (American Museum of Natural History), Erica Johnson (City College of New York), Andrea Paz (City College of New York), Gonzalo E. Pinilla-Buitrago (City College of New York)</td>
</tr>
<tr>
<td></td>
<td>The Relationship Between Poetry and Science</td>
<td>Room 319, 3rd Floor</td>
<td>Madhur Anand (University of Guelph)</td>
</tr>
<tr>
<td></td>
<td>What Am I Doing with My Life? Career Planning for the Modern Conservationist</td>
<td>Kaufmann Theater, 1st Floor</td>
<td>Alex Moore, Mary Blair, Nadav Gazit (American Museum of Natural History), Alexandra Sutton Lawrence (Duke University), Rae Wynn-Grant (National Geographic Society), Christian Rivera (University of Florida)</td>
</tr>
<tr>
<td>12:00pm - 12:45pm</td>
<td><strong>Lunch Break</strong> (on your own)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:45pm - 1:50pm</td>
<td><strong>Behind-the-Scenes Museum Collection Tours</strong></td>
<td></td>
<td>Meet at Kaufmann Desk</td>
</tr>
<tr>
<td>1:50pm</td>
<td><strong>Workshop Check-In</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00pm - 5:00pm</td>
<td><strong>Workshop Session II</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Population Genomics for Conservation Science</td>
<td>Room 319, 3rd Floor</td>
<td>Stephen Gaughran (Yale University; American Museum of Natural History), Melina Giakoumis (City University of New York; American Museum of Natural History)</td>
</tr>
<tr>
<td></td>
<td>Principles and Practices of Conservation Bioacoustics</td>
<td>Sackler Lab, 1st Floor</td>
<td>Dena Jane Clink, Michelle Elizabeth Fournet, Daniela Hedwig, and Shyam Kumar Madhusudhana (Cornell University)</td>
</tr>
<tr>
<td></td>
<td><strong>Spatial Analysis Using R</strong></td>
<td>Calder Lab, 2nd Floor</td>
<td>Vijay Ramesh (Columbia University)</td>
</tr>
<tr>
<td></td>
<td>The Importance of Natural History Collections in Conservation Decision Making</td>
<td>RGGS Lecture Hall, 5th Floor</td>
<td>Evon Hekkala (American Museum of Natural History)</td>
</tr>
<tr>
<td></td>
<td><strong>Drones 101: An Introduction to Using Drones in Conservation Fieldwork</strong></td>
<td>Linder Theater, 1st Floor</td>
<td>Darya Chernikhova (Gotham Green Software)</td>
</tr>
</tbody>
</table>
Dekila Chungyalpa
*Director, Loka Initiative*

**Building a Resilient Future; Where Science and Spirituality Converge**

Over 80% of the world’s human population subscribes to a faith. There are at least 2 billion Christians, 1.3 billion Muslims, 950 million Hindus and 500 million Buddhists worldwide. Nine out of 10 Americans believe in God and religiosity is measured to be even stronger in Africa, Asia and Latin America. Recent years have seen the emergence and impact of faith-led environmental and climate movements around the world which are a profoundly important strategy in addressing the root causes of biodiversity loss and climate change. The integration of spirituality with science allows these movements to apply the framework of resilience—ecological, sociological and psychological—to protect nature, to prepare their communities for climate impacts, to heal and to bounce back despite the many challenges they face. This talk will integrate examples of faith-led environmental and climate action with environmental science, philosophy, psychology, and traditional ecological knowledge to demonstrate how the intersection of faith and ecology lead to large scale attitude and behavior change.

Martín Mendez
*Director, Southern Cone - Patagonia, Wildlife Conservation Society*

**Collaboration and Capacity Building for Conservation Impact: Lessons from Southern South America**

Biodiversity conservation is a complex, multidimensional challenge that requires the best available evidence and tools for impactful on-the-ground action. The human dimension is at the core of such efforts, bridging the gap between the pressing environmental challenges and effective solutions. This talk will highlight some of the recent approaches and tools used to address current conservation issues in the Southern Cone of America. Through a discussion of his professional journey starting as a student of ecology and conservation carrying out original applied research, to helping design strategies for collaborative, regional conservation and for supporting the next generation of conservation practitioners, Dr. Mendez will illustrate how building on knowledge, evidence, and collaboration can help us to respond to a rapidly changing environmental landscape.
Guide to Posters (in alphabetical order by presenter’s last name)

Seheno Andriantsaralaza
Lemur Conservation Network
Effect of red-fronted brown lemur gut passage on the germination of baobab species

Cecilia B. Barriga Bahamonde
George Mason University
Conflicting ecosystem services and frugivorous mammals in the Peruvian Amazon

Rupinder Bakhshi
Duke University
Understanding the dynamics of human–carnivore conflict in a global tiger hotspot

Mai Bernheim
University of Haifa
Male or female? Can we determine hatchlings’ sex of reptiles absent sex chromosomes?

Devon Block-Funkhouser
Princeton University
Tree usage of Coquerel’s sifaka in Mariarano village, Northwest Madagascar

Christian Bojorquez
Montclair State University
Effects of multiple stressors on sea urchin larvae

Alberto Borges
Catawba College
Athin River Expedition

Ren Cao
Duke University
Impacts of high-speed railways on forest cover change in China

Emily Casper
Fordham University
Feast or famine: assessing urban stopover resources for shorebirds in Jamaica Bay, NY

Rachel Chaffee
American Museum of Natural History
Staying in science: examining youth pathways in conservation/environmental science

Fu Hsiang Chih
Kingsborough Community College
The effect of eastern coyotes on raccoons on activity budgets in New York City

Anna Ducroiset
Woods Hole Oceanographic Institution
Roundup and increased ocean temperatures cause immunosuppression in dinoflagellates

Demey Everett
Augsburg University
Investigating ecological requirements of amphipods to inform wetland restoration

Kristie Falconer
Princeton University
Butterfly diversity within the habitat types of Krka National Park, Croatia

Anthony Garcia
American Museum of Natural History Science Research Mentoring Program
Detecting hybridization between coyotes and dogs in New York City

Tatiana Gladkikh
University of Vermont
Exploring the links between cultural values and stewardship through foraging

Darcey Glasser
Hunter College, CUNY
Observation at ecotourism site reveals opportunity for modes of pathogen transmission

Alexander Gottdiener
Princeton University
Valuing open space areas for bird species richness: what data matters and why

Yusif Habib
University of Lisbon & University of Padova
Mono-cropping rubber plantations in Ghana: the incessant threat to biodiversity
Guide to Posters

Jason Hagani
Columbia University
Home ranges of wood turtles and using rarefaction to improve tracking study design

Liz Hurtado
University of Florida
Linking endemic bird conservation and participatory approaches in the Peruvian Andes

Nourhan Ibrahim
Princeton University
Secondary school conservation biology education in Laikipia County, Kenya

Emily Jager
Columbia University
The impact of wildfires on soil nutrients over time in temperate rainforests of Chile

Aljuwan Jeffers
Pace University
The challenge of building a livelihood in a Caribbean coastal community

Sarika Khanwilkar
Columbia University
Cooking fuel in the Central Indian Highlands landscape

Karissa Lowe
Princeton University
Osmia lignaria as strawberry pollinators in vertical farms

Dhawal Mehta
Wildlife Institute of India
Abundance and distribution of the four-horned antelope in Gir Protected Area

Sarah Milligan
Imperial College London
Determining the conditions for the spread of conservancies in Namibia

Cole Morokhovich
Princeton University
The effects of climate change on broad-tailed hummingbird pollination behavior in the Rocky Mountains

Patrick O’Shea
Stonehill College
Using convex hulls to identify outliers in population distribution models

Tatianna Peralta
Manhattan College
Determination of heavy metals in Tibbetts Brook

Jhazel Quispe
Asociacion para la Ciencia y ed Desarrollo Ambiental, Natural Way
First Peruvian experience of involving local communities at Titicaca water frog (Telmatobius culeus) research, achieving initiatives of long-term conservation

Nicole Rowe Whyte
Woods Hole Oceanographic Institution
Lipidome changes in coral symbionts exposed to elevated thermal and chemical stress

Marie Laure Rurangwa
University of Oxford
The effects of land-use change on bird communities in a Rwandan montane rainforest

Kimberly Samson
University of the South Pacific
Identifying the aquaculture potential of an endemic Fijian fish species

Umer Hameed Shansaz
University of Kashmir
Status and conservation issues of some Pheasants in Dachigam NP, Kashmir Himalayas

Kayla Sheeger
American Museum of Natural History Science Research Mentoring Program
Enyalius: good places to live, and not so good places to live
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel Sinopili</td>
<td>State University of NY, College of Environmental Science and Forestry</td>
<td>Morphological variation of extant bowfins in the Mississippi River Basin</td>
</tr>
<tr>
<td>Madison Soule</td>
<td>George Washington University</td>
<td>Allostatic load as a predictor of increased morbidity and early mortality in gorillas</td>
</tr>
<tr>
<td>Bintou Sow</td>
<td>Promise Academy II High School</td>
<td>Invisible big city life revealed: microbiomes of NYC coyotes</td>
</tr>
<tr>
<td>Maria Stahl</td>
<td>Princeton University</td>
<td>The role of fire in maintaining herbivore diversity in an African savanna</td>
</tr>
<tr>
<td>Mah Tarke</td>
<td>Pan African Institute for Development West Africa (PAID-WA) Buea</td>
<td>Wildlife habitat connectivity: prospects and challenges, Cameroon</td>
</tr>
<tr>
<td>Edward Tekwa</td>
<td>Rutgers University</td>
<td>Theories and tests for path-dependence in conservation behaviour</td>
</tr>
<tr>
<td>Liju Thomas</td>
<td>Kerala University of Fisheries and Ocean Studies</td>
<td>Biogeography of chitons from the Indian Ocean and its implications for conservation</td>
</tr>
<tr>
<td>Sarah Trabue</td>
<td>Columbia University</td>
<td>The prevalence of skin lesions on bottlenose dolphins in the New York Bight</td>
</tr>
<tr>
<td>Brandon Wong</td>
<td>American Museum of Natural History</td>
<td>Effectiveness of protected forest regions in Madagascar</td>
</tr>
<tr>
<td>Yisi Zhu</td>
<td>American Museum of Natural History Science</td>
<td>The Bronx: Coyote Country</td>
</tr>
</tbody>
</table>
Special thanks are due to all those who have given so generously of their time and talents to advise, review, and mentor. They include:

**George Amato**  
American Museum of Natural History

**Felicity Arengo**  
American Museum of Natural History

**Daniel Baldassarre**  
Oswego State University

**Chanda Bennett-Gantt**  
Columbia University

**Erin Betley**  
American Museum of Natural History

**Mark Birchette**  
American Museum of Natural History

**Mary Blair**  
American Museum of Natural History

**Adriana Bravo**  
University of Toronto

**Anthony Caragiulo**  
American Museum of Natural History

**Samantha Cheng**  
American Museum of Natural History

**Catherine Christen**  
Smithsonian Conservation Commons

**John Cigliano**  
Cedar Crest College

**Christina Colon**  
Kingsborough Community College

**Tara Cornelisse**  
Center for Biological Diversity

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

**Kristin Douglas**  
American Museum of Natural History

**Leo Douglas**  
New York University

**Diego Ellis Soto**  
Yale School of Forestry and Environmental Studies

**Wendy Erb**  
Columbia University

**Peter Ersts**  
American Museum of Natural History

**Joshua Fisher**  
Columbia University

**Nick Friedenberg**  
Applied Biomathematics

**Peter Galante**  
American Museum of Natural History

**Nadav Gazit**  
American Museum of Natural History

**James Gibbs**  
The State University of New York College of Environmental Science and Forestry

**Anthony Giordano**  
SPECIES

**Andres Gomez**  
ICF International

**Martha Groom**  
University of Washington

**Daniel Gurdak**  
United States Environmental Protection Agency

**Rodger Gwiazdowski**  
University of Massachusetts

**Kate Hanson**  
IXL Learning
### SCCS-NY Advisors, Reviewers, Mentors

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rob Harbert</td>
<td>Stonehill College</td>
</tr>
<tr>
<td>Evon Hekkala</td>
<td>Fordham University; American Museum of Natural History</td>
</tr>
<tr>
<td>Kate Holmes</td>
<td>Wildlife Conservation Society</td>
</tr>
<tr>
<td>Ned Horning</td>
<td>American Museum of Natural History</td>
</tr>
<tr>
<td>Jeremy Jackson</td>
<td>American Museum of Natural History</td>
</tr>
<tr>
<td>David Johns</td>
<td>Portland State University, Marine Conservation Institute; Wildlands Network</td>
</tr>
<tr>
<td>Sara Kross</td>
<td>Columbia University</td>
</tr>
<tr>
<td>Kimberly Landrigan</td>
<td>American Museum of Natural History</td>
</tr>
<tr>
<td>Jenna Lawrence</td>
<td>Columbia University</td>
</tr>
<tr>
<td>Suzanne Macey</td>
<td>American Museum of Natural History</td>
</tr>
<tr>
<td>Nicole Minhovets</td>
<td>Columbia University</td>
</tr>
<tr>
<td>Alex Moore</td>
<td>American Museum of Natural History</td>
</tr>
<tr>
<td>Eugenia Naro-Maciel</td>
<td>New York University</td>
</tr>
<tr>
<td>Brian Palestis</td>
<td>Wagner College</td>
</tr>
<tr>
<td>Matt Palmer</td>
<td>Columbia University</td>
</tr>
<tr>
<td>Susan Perkins</td>
<td>American Museum of Natural History</td>
</tr>
<tr>
<td>Jennifer Phillips</td>
<td>Bard Center for Environmental Policy</td>
</tr>
<tr>
<td>Ana Luz Porzecanski</td>
<td>American Museum of Natural History</td>
</tr>
<tr>
<td>Simon Queenborough</td>
<td>Yale School of Forestry and Environmental Studies</td>
</tr>
<tr>
<td>Jessica Rothman</td>
<td>Hunter College</td>
</tr>
<tr>
<td>Anne Ricculli</td>
<td>Drew University</td>
</tr>
<tr>
<td>Dan Rubenstein</td>
<td>Princeton University</td>
</tr>
<tr>
<td>Kimberly Russell</td>
<td>Rutgers University</td>
</tr>
<tr>
<td>Manette Sandor</td>
<td>Columbia University</td>
</tr>
<tr>
<td>Amanda Sigouin</td>
<td>American Museum of Natural History</td>
</tr>
<tr>
<td>Eleanor Sterling</td>
<td>American Museum of Natural History</td>
</tr>
<tr>
<td>Donald Stewart</td>
<td>The State University of New York College of Environmental Science and Forestry</td>
</tr>
<tr>
<td>Morgan Tingley</td>
<td>University of Connecticut</td>
</tr>
<tr>
<td>Katrina Toal</td>
<td>NYC Department of Parks and Recreation</td>
</tr>
<tr>
<td>Anne Toomey</td>
<td>Pace University</td>
</tr>
<tr>
<td>Judith Weis</td>
<td>Rutgers University</td>
</tr>
<tr>
<td>Claudia Wultsch</td>
<td>American Museum of Natural History</td>
</tr>
</tbody>
</table>
Note: not all workshop locations are represented.
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.