

Center for Biodiversity and Conservation

The Marshall M. Weinberg

# Student Conference on Conservation Science New York

October 3-7, 2022

Conference  
Program



The Marshall M. Weinberg

# Student Conference on Conservation Science New York

Major funding for the 2022 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.

The Conference is organized by the Center for Biodiversity and Conservation at the American Museum of Natural History.

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October 3-7, 2022  
American Museum  
of Natural History

# Student Conference on Conservation Science New York

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Full presentation abstracts are available on the SCCS-NY website: [www.amnh.org/sccsny](http://www.amnh.org/sccsny)

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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 2022 (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 2022 is organized by the American Museum of Natural History’s Center for Biodiversity and Conservation (CBC).

### **SCCS–NY Content and Logistics Coordination:**

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### **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 conference-related 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

- 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 or unwelcome sexual attention, are not permitted at the conference and may not be incorporated into the visuals or presentations.
- Violating the rules and regulations of the online platforms and services.
- 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 organized by the CBC.

## Consequences

- Anyone requested to stop unacceptable behavior is expected to 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.
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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 [sccs@amnh.org](mailto:sccs@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 Title IX officers in Human Resources: Benjamin Marzolf, Title IX Coordinator / Equal Opportunity Specialist: 212-769-5316, [bmarzolf@amnh.org](mailto:bmarzolf@amnh.org)

**MONDAY**

October 3, 2022

**Virtual**

**12:00pm Conference welcome**  
*Ana Luz Porzecanski, Director, Center for Biodiversity and Conservation, American Museum of Natural History*

**12:15- Listen-up!**  
**12:45pm Tune-in with better listening skills**  
*Christina Imrich, Co-Active Coach, Leadership Facilitator*

**1:00pm Break**

**1:00- Workshops session 1**  
**4:00pm**

## **WORKSHOPS**

### **Session 1 | Virtual**

#### **Applications of museum collections and phylogenomics to biodiversity conservation:**

##### **part 1\***

Organizers: Mary Blair, Center for Biodiversity and Conservation, American Museum of Natural History; Luca Pozzi, University of Texas at San Antonio; Anna Penna, University of Texas at San Antonio and Smithsonian National Museum of Natural History; Stephen Gaughran, Princeton University; Megan Wallace, Institute for Comparative Genomics, American Museum of Natural History; Lauren Clark, Institute for Comparative Genomics, American Museum of Natural History; Alexander Salis, Vertebrate Zoology, American Museum of Natural History; Evon Hekkala, Fordham University; Melina Giakoumis, City College of New York / City University of New York

*\*Part 2 is optional and will take place on-site on Friday, October 7.*

#### **Interactive, reproducible, and accessible species distribution modeling for conservation with Wallace**

Organizers: Samuel Chang, Pace University; Beth Gerstner, Michigan State University; Bethany Johnson, City College of New York

#### **More effective conservation**

Organizers: David Johns, Marine Conservation Institute & Portland State University

#### **What am I doing with my life? Career planning for conservation researchers and practitioners**

Organizers: Christian Rivera, Princeton University; Erin Betley, Mary Blair, and Nadav Gazit, Center for Biodiversity and Conservation, American Museum of Natural History; Eleanor Sterling, Hawaii Institute of Marine Biology, University of Hawai'i

**10:00am Welcome and Introduction**  
*Ana Luz Porzecanski, Director, Center for Biodiversity and Conservation, American Museum of Natural History*

**10:15am Plenary Address**  
**Beyond climate despair: navigating an age of crisis and engaging for change**  
*Jennifer Atkinson, Associate Professor of Environmental Humanities, University of Washington*

*Live Q&A*

**11:00am Break**

**11:10am Talk session 1**  
**Tools for species management and conservation**

Entangled assumptions: sea turtles and paper parks in a small-scale fishery  
*Allison Cutting*

The impact of population control on Asian black bear populations in Nagano, Japan  
*Ririko Koido*

Climatic modelling predicts severe loss in range of endemic Himalayan toad  
*Vishal Kumar Prasad*

*Live Q&A*

**12:30pm Break**

**12:45pm Mentor cafés**

**1:30pm Break**

**1:45pm Speed talk session 1**  
**Habitats and landscapes**  
Managing with logic in the Monarch Reserve  
*Miramanni Mishkin*

Can urban parks be the suitable wingmen for protected areas?  
*Annalee Anderson*

Climate-driven range shifts of a rare specialist bee and its host plant  
*Mark Buckner*

Assessing habitat suitability, diversity, and activity patterns of NJ bats  
*Amani Abdelsalam*

Temporal differences in forest disturbances in relation to community conservation  
*Alexandria Cosby*

Characterizing mammal diversity on North American Great Lakes islands  
*Nathaniel Wehr*

Effectiveness of sacred forests in biodiversity conservation: a meta-analysis  
*Megan Sullivan*

*Live Q&A*

**2:50pm Break**

**3:00pm Virtual poster session 1**  
**Tools for species management and conservation**

Reconstructing recent stress and reproductive histories of Rice's whales using baleen  
*Rebecca Evey*

Acoustic deterrents ("pingers") in reducing mortality of endangered river dolphins  
*Merin Jacob*

Motion detecting camera traps for observing small nocturnal mammals in the tropics  
*Tyler Savage*

Best practice hDNA extraction methods for fluid-fixed Malagasy microhylid frogs  
*Meghan Forcellati*

Towards an assisted reproductive technology (ART) platform in songbirds  
*Matthew Biegler*

Patterns of adrenal stress hormones in WWII-era Antarctic blue whales and fin whales  
*Allison Case*

Nailing it! An evaluation of reproductive and stress hormones in elephant toenails  
*Garrett Rich*

Ecological stressors are associated with soil biodiversity in North American forests  
*Kaleb Frierson*

*Live Q&A*

**4:00pm Adjourn**

**10:00am Welcome and Introduction**

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

**10:15am Talk session 2  
Humans and nature**

What makes a conservation-focused video effective?  
*Darius Mahdavi*

Collaborative socio-ecological research in community owned forests of Nagaland, India  
*Ramya Nair*

Salmonella and avian influenza virus dynamics of urban-born white ibis  
*Katherine Christie*

Bird diversity in agricultural landscapes of Sikkim-Darjeeling, Himalaya, India  
*Bishal Thakuri*

Woodpeckers as indicators of bird diversity and habitat structure in managed forests  
*Tarun Menon*

Live Q&A

**11:35am Break****11:45am Plenary Discussion  
Inspiring careers in conservation:  
SCCS-NY alumni share their journeys in the  
conservation field**

**Abe Borker**, Program Director, UCSC Doris Duke Conservation Scholars Program

**Clare Gupta**, Associate Cooperative Extension Specialist, UC Davis

**Suzanne Pierre**, Founder and Lead Investigator, Critical Ecology Lab

Moderator:

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

Live Q&A

**12:50pm Break****1:00pm Mentor cafés****1:45pm Break****2:00pm Speed talk session 2  
Tools for species management and  
conservation**

Estimating population abundance and age-structure of spinner dolphins off O'ahu  
*Liah McPherson*

Invasive mammals largely follow niche conservatism  
*Biswa Bhusana Mahapatra*

Genetic reconstruction of the invasion history of *Gambusia* spp. in India  
*Nobin Raja*

The possibility of using Nigerian Bird Atlas Project data for population monitoring  
*James Oni*

How are sharks doing? An integrated risk assessment for effects of fishing  
*Alifa Haque*

Unoccupied Aerial Vehicle use to study breeding Clapper Rail in Delaware, USA  
*Hailey Glasko*

The importance of tiger corridors in conservation of vultures  
*Aakash Bhushan*

Live Q&A

**2:55pm Break****3:00pm Virtual poster session 2  
Species distributions**

Prediction of 3D habitat complexity using a trait-based approach in coral reefs  
*Sofia Ferreira*

Biogeographic and Beta-diversity patterns for southern Africa's native freshwater fish  
*Joseph Makaure*

Biogeography and ecology of Squamata associated with karst formation  
*Rindra Ramananjatova*

Avian assemblages across an urban gradient in the Jos Plateau  
*Anap Ishaku*

Multi-temporal habitat models using machine learning in Google Earth  
*Gabriel Alejandro Perilla*

Habitat use by sloth bear in Chitwan National Park, Nepal  
*Bharat Sharma*

Affects of climate change on shorebird nesting phenology  
*Abby Good*

Live Q&A

**4:00pm Adjourn**



**10:00am Welcome and Introduction**

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

**10:15am Talk session 3**

**Conservation in aquatic systems**

Living alongside otters  
*Vinni Jain*

Larval flows: estimating population connectivity of Hawaiian reef species  
*Emily Conklin*

Review: phylogeography of elasmobranchs based on life history traits and biogeography  
*Sudha Kottillil*

Characteristics of elasmobranch fisheries in Malvan provides insights for management  
*Shruthi Kottillil*

*Live Q&A*

**11:30am Break**

**11:45am Speed talk session 3**

**Social dimensions of conservation**

Understanding global wildlife trade in the fashion industry  
*Siyeun Kim*

Natural dye potential of invasive plant species for commercial textile applications  
*Abigail LaCour*

Benefit-cost analysis in adopting ecolabelling certification for oyster mariculture  
*Sam Cheplick*

Legal changes in Protected Areas are an inconvenient truth for global biodiversity  
*Clarice Mendes*

Overcoming the political divide to expand support for climate change policy  
*Scott Kleinberg*

Understanding the fishers to change the bottom trawl fishery in India  
*Roshni Mangar*

*Live Q&A*

**12:45pm Break**

**1:00pm Mentor cafés**

**1:45pm Break**

**1:55pm Virtual poster session 3**

**Conservation and restoration in changing landscapes**

The past, present, and potential future of phosphorus management in the Everglades  
*Quinn Zacharias*

Invasive alien plant species and their influence in mammals habitat selection  
*Shreyashi Bista*

Global patterns and drivers of human population densities within protected areas  
*Moses Elleason*

Antelope responses to anthropogenic influences may allow their long-term persistence  
*Rohit Raj Jha*

Restoring one billion oysters to New York Harbor by 2035: a collaborative effort  
*Jennifer Zhu*

Monitoring adaptive silviculture for wildlife  
*Jahiya Clark*

Ecology of *Uraeotyphlus caecilians* in the altered habitats of India's Western Ghats  
*Ranjith Vengot*

Flight capacity and extinction of birds in the Colombian Andes  
*Irmak Erdem*

Influence of livestock grazing on summer distribution of blue sheep  
*Danyang Shi*

*Live Q&A*

**2:55pm Break**

**3:00pm Virtual poster session 4  
Humans and nature**

Bird-window collisions on a university campus and nationwide survey in China  
*Winnie Liao*

Amending Hungarian legislation by implementing seed transfer zones  
*David Cevallos*

Wildbook: artificial intelligence, conservation, technology and you  
*Megan McDaniels*

Traditional Ecological Knowledge of Koiari Indigenous People to conserve in the Raggiana  
*Challis Pulotu*

Citizen science and roadkill trends in Korean herpetofauna  
*Yucheol Shin*

Tibetan herders' motivation for monitoring snow leopards in Sanjiangyuan, China  
*Yue Yu*

Exploring people's relationships with nature through private land conservation  
*Rocio Lopez de la Lama*

Using Local Ecological Knowledge to inform pangolin conservation in Thailand  
*Coral Keegan*

The effect of helicopter noise pollution on birds on Governors Island  
*Leila Winn*

*Live Q&A*

**4:00pm Break**

**4:15-4:30pm Awards & closing remarks**

**On-site**

**5:30-6:45pm Conference Reception | On-site Check-In**

Arthur Ross Terrace, American Museum of Natural History  
Please enter at 81<sup>st</sup> Street between Central Park West and Columbus Avenue

**7:00-8:00pm Special Public Program**

**SciCafe: Cool Solutions for Hot Cities**

Hall of the Universe

**Timon McPherson**

*Professor of Urban Ecology & Director of the Urban Systems Lab, The New School*

What is the role of urban natural spaces in adaptation to climate change?

Can cities like New York adequately prepare for the looming crisis?

Dr. Timon McPhearson uses Big Data and Artificial Intelligence in scientific research geared to creating equitable and resilient cities. In this SciCafe, McPhearson will discuss our new climate reality and insights from the latest Intergovernmental Panel on ClimateChange reports, the important role of urban centers such as New York City in the development of climate change adaptation strategies, and the science behind potential solutions that are currently under investigation.



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.

- 9:30am Check-in**  
77<sup>th</sup> Street Entrance
- 10:00am Welcome + networking activity**  
Blum Classroom  
*Ana Luz Porzecanski, Director, Center for Biodiversity and Conservation, American Museum of Natural History*
- 10:30am Creative Leadership: What kind of leader are you choosing to be?**  
Blum Classroom  
*Christina Imrich, Co-Active Coach, Leadership Facilitator*
- 12:00-1:00pm Collection tours**  
Departure from Kauffman Theater Desk promptly at 12pm  
*Lunch break*
- 1:15pm Workshop Check-in**  
Kauffman Theater Desk
- 1:30-4:30pm Workshop session 2**

## WORKSHOPS

### Session 2 | On-site

Check-in at Kauffman Theater Desk at 1:15pm

#### **Expanding your teaching toolbox: An introduction to active teaching and scientific teaching approaches**

Organizers: Ana Luz Porzecanski and Suzanne Macey, Center for Biodiversity and Conservation, American Museum of Natural History

#### **Forensic entomology: Using insects of forensic importance to monitor biodiversity**

Organizers: Denise Gemmellaro, Kean University

#### **Museum exhibition design for post-pandemic audiences**

Organizer: Anne Ricculi, Morris Museum, NJ (Smithsonian Affiliate)

#### **Natural dyes from invasive plant species**

Organizers: Anne Bower and Becky Flax, Thomas Jefferson University

#### **Applications of museum collections and phylogenomics to biodiversity conservation: Part 2 (optional)**

Organizers: Mary Blair, Center for Biodiversity and Conservation, American Museum of Natural History; Luca Pozzi, University of Texas at San Antonio; Anna Penna, University of Texas at San Antonio and Smithsonian National Museum of Natural History; Stephen Gaughran, Princeton University; Megan Wallace, Institute for Comparative Genomics, American Museum of Natural History; Lauren Clark, Institute for Comparative Genomics, American Museum of Natural History; Alexander Salis, Vertebrate Zoology, American Museum of Natural History; Evon Hekkala, Fordham University; Melina Giakoumis, The Graduate Center, City University of New York

## Jennifer Atkinson

*Associate Professor of Environmental Humanities, University of Washington*

### **Beyond climate despair: Navigating an age of crisis and engaging for change**

The age of climate consequences is upon us, and anxiety and despair are on the rise. After decades of focusing primarily on the external environmental impacts, the climate movement is beginning to take emotions seriously. Educators, activists and mental health professionals increasingly acknowledge that in facing the challenges ahead, we will need more than new policies and technology: we will also need the internal resources to build resilience for a climate-changed future. This talk will offer strategies for navigating the emotional fallout of our warming world – fear, anger, hopelessness and grief – and channel those emotions into creating a more just a sustainable future.

*Dr. Jennifer Atkinson is an author and Associate Professor of environmental humanities at the University of Washington. Her seminars on [Eco-Grief & Climate Anxiety](#) have been featured in the [New York Times](#), [Washington Post](#), [Los Angeles Times](#), [Seattle Times](#), [NBC News](#) and many other outlets. Dr. Atkinson is currently working on a book titled [An Existential Toolkit for the Climate Crisis](#), which offers strategies to help young people navigate the emotional toll of climate breakdown. She leads public seminars on climate and mental health in partnership with youth activists, psychologists, climate scientists and policy makers. Her podcast [“Facing It”](#) also gives people tools to channel eco-anxiety into action.*



## Spatial niche partitioning allows coexistence of armadillos and gopher tortoises

Namrata Bhandari

*Valdosta state university, Valdosta, GA, USA*

## Salmonella and avian influenza virus dynamics of urban-born white ibis

Katherine Christie<sup>1</sup>, Julia Silva Seixas<sup>2</sup>, William Norfolk<sup>3</sup>, Rebecca L. Poulson<sup>4</sup>, R. Scott Razier<sup>3</sup>, Erin Lipp<sup>3</sup>, Sonia M. Hernandez<sup>2,4</sup>

*<sup>1</sup>Odum School of Ecology, University of Georgia, Athens, GA, USA; <sup>2</sup>Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA, USA; <sup>3</sup>College of Public Health, University of Georgia, Athens, GA, USA; <sup>4</sup>Southeastern Cooperative Wildlife Disease Study, Department of Population Health, College of Veterinary Medicine, University of Georgia, Athens, GA, USA*

## Larval flows: estimating population connectivity of Hawaiian reef species

Emily Conklin<sup>1</sup>, Evan Barba<sup>1</sup>, Luz Ángela López de Mesa Agudelo<sup>2</sup>, Chris Bird<sup>2</sup>, Anna Neuheimer<sup>3</sup>, Rob Toonen<sup>1</sup>

*<sup>1</sup>Hawai'i Institute of Marine Biology, University of Hawai'i, Kāne'ohe, HI, USA; <sup>2</sup>Department of Life Sciences, Texas A&M University—Corpus Christi, Corpus Christi, TX, USA; <sup>3</sup>Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Aarhus, Denmark*

## Entangled assumptions: sea turtles and paper parks in a small-scale fishery

Allison Cutting<sup>1</sup>, Terre Satterfield, Rashid Sumaila, Luca Marsaglia, Manuel Cortez

*<sup>1</sup>University of British Columbia*

## Living alongside otters

Vinni Jain<sup>1</sup>, Krithi K. Karanth<sup>1</sup>, Mahi Puri<sup>2</sup>

*<sup>1</sup>Centre for Wildlife Studies; <sup>2</sup>University of Georgia*

## The impact of population control on Asian black bear populations in Nagano, Japan

Ririko Koido<sup>1,2</sup>, Misako Kuroe<sup>3</sup>, Hitoshi Kuga<sup>3</sup>, Naoki Ohnishi<sup>4</sup>, Ryosuke Kishimoto<sup>3</sup>, Yoshiaki Tsuda<sup>2</sup>

*<sup>1</sup>Doctoral program in Biology, University of Tsukuba, Tsukuba, Ibaragi, Japan; <sup>2</sup>Sugadaira Research Station, Mountain Science Center, University of Tsukuba, Ueda, Nagano, Japan; <sup>3</sup>Nagano Environmental Conservation Research Institute, Nagano, Nagano, Japan; <sup>4</sup>Tohoku research center, Forestry and Forest Products Research Institute, Morioka, Iwate, Japan*

## Characteristics of elasmobranch fisheries in Malvan provides insights for management

Shruthi Kottillil<sup>1,2</sup>, Trisha Gupta<sup>1</sup>, Muralidharan Manohar Krishnan<sup>1</sup>, Chetan Rao<sup>1</sup>, Kartik Shanker<sup>1,3</sup>

*<sup>1</sup>Dakshin Foundation, Bangalore, Karnataka, India; <sup>2</sup>TERI School of Advanced Studies (TERI SAS), New Delhi, India; <sup>3</sup>Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Karnataka, India*

## Review: phylogeography of elasmobranchs based on life history traits and biogeography

Sudha Kottillil<sup>1,2</sup>, Chetan Rao<sup>3</sup>, Brian Bowen<sup>4</sup>, Kartik Shanker<sup>2,3</sup>

*<sup>1</sup>TERI School of Advanced Studies, India; <sup>2</sup>Centre for Ecological Sciences, Indian Institute of Science, Karnataka, India; <sup>3</sup>Dakshin Foundation, Karnataka, India; <sup>4</sup>Hawai'i Institute of Marine Biology, Hawai'i*

## What makes a conservation-focused video effective?

Darius J. Mahdavi<sup>1</sup>, Daniel K. Riskin<sup>2</sup>, Shelby H. Riskin<sup>1</sup>

*<sup>1</sup>Department of Ecology and Evolutionary Biology, University of Toronto; <sup>2</sup>Department of Biology, University of Toronto Mississauga*

## Woodpeckers as indicators of bird diversity and habitat structure in managed forests

Tarun Menon<sup>1,2,3</sup>, Ghazala Shahabuddin<sup>1,4</sup>

*<sup>1</sup>Centre for Ecology Development and Research; <sup>2</sup>National Centre for Biological Sciences; <sup>3</sup>Indian Institute of Science; <sup>4</sup>Ashoka University*

## Collaborative socio-ecological research in community owned forests of Nagaland, India

Ramya Nair<sup>1</sup>, Alemba Yimkhiung<sup>1</sup>, Jona Yimkhiung<sup>1</sup>, Hankiumong Yimkhiung<sup>1</sup>, Kiyanmong Yimkhiung<sup>1</sup>, Retsucham Yimkhiung<sup>1</sup>, Rethsuthong Yimkhiung<sup>1</sup>, Yapmuli Yimkhiung<sup>1</sup>, Shekhumcha Yimkhiung<sup>1</sup>, Sahil Nijhawan<sup>2,3,4</sup>

*<sup>1</sup>Wildlife Protection Society of India, New Delhi, India; <sup>2</sup>Nature Conservation Foundation, Mysuru, India; <sup>3</sup>University College London, London, United Kingdom; <sup>4</sup>Zoological Society of London, London, United Kingdom*

## Climatic modelling predicts severe loss in range of endemic Himalayan toad

Vishal Kumar Prasad<sup>1,2</sup>, Desiree Andersen<sup>3</sup>, Ghazala Shahabuddin<sup>4,5</sup>, Amaël Borzée<sup>1</sup>

*<sup>1</sup>Laboratory of Animal Behaviour and Conservation, College of Biology and the Environment, Nanjing Forestry University, Nanjing, People's Republic of China; <sup>2</sup>Wildlife Institute of India, P.O. Box 18, Chandrabani, Dehradun - 248001, Uttarakhand, India; <sup>3</sup>Laboratory of Animal Communications, Ewha Womans University, Seoul, Republic of Korea; <sup>4</sup>Ashoka University, Rajiv Gandhi Education City, Sonapat - 131029, Haryana, India*

## Bird diversity in agricultural landscapes of Sikkim–Darjeeling, Himalaya, India

Bishal Thakuri, Bhoj Kumar Acharya

*Department of Zoology, School of Life Sciences, Sikkim University, Gangtok, Sikkim-737102, India*

# Presenters

## Speed talks

In alphabetical order  
by presenter's last  
name

### Assessing habitat suitability, diversity, and activity patterns of NJ bats

Amani Abdelsalam, Camilo A. Calderón-Acevedo, J. Angel Soto-Centeno

*Department of Earth and Environmental Sciences, Rutgers University-Newark, Newark, USA*

### Can urban parks be the suitable wingmen for protected areas?

Annalee Anderson<sup>1</sup>, Olivia Smith, Abbey McComb, Anant Deshwal

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### The importance of tiger corridors in conservation of vultures

Aakash Bhushan, Sandeep Chouksey, Aniruddha Dhamorikar, Rahul Talegaonkar, Upendra

Dubey, Malvika Colvin, Soumen Dey

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### Climate-driven range shifts of a rare specialist bee and its host plant

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### Benefit-cost analysis in adopting ecolabelling certification for oyster mariculture

David S. Cheplick<sup>1</sup>, Marzieh Motallebi, Michael Vassalos

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### Temporal differences in forest disturbances in relation to community conservation

Alexandria E. Cosby<sup>1</sup>, Bertrand Andriatsitohaina<sup>2,3</sup>, Brandon P.M. Edwards<sup>4</sup>, Mamy H.R.

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### Unoccupied Aerial Vehicle use to study breeding Clapper Rail in Delaware, USA

Hailey Glasko, Elisa Elizondo, Gregory Shriver

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### The enigma of lion and human coexistence in the Saurashtra landscape

Keshab Gogoi, Yadvendradev V. Jhala

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### How are sharks doing? An integrated risk assessment for effects of fishing

Alifa Bintha Haque<sup>1</sup>, Samantha Sherman<sup>2</sup>

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### Understanding global wildlife trade in the fashion industry

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### Overcoming the political divide to expand support for climate change policy

Scott Kleinberg

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### Natural dye potential of invasive plant species for commercial textile applications

Abigail LaCour<sup>1</sup>, Emily Akelaitis<sup>1</sup>, Lauren Blanck<sup>1</sup>, Jessica Alashoush<sup>1</sup>, Zoé Berger<sup>1</sup>, Samsad

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### Invasive mammals largely follow niche conservatism

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### Understanding the fishers to change the bottom trawl fishery in India

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### Estimating population abundance and age-structure of spinner dolphins off O'ahu

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### Legal changes in Protected Areas are an inconvenient truth for global biodiversity

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### Managing with logic in the Monarch Reserve

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### The possibility of using Nigerian Bird Atlas Project data for population monitoring

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### Genetic Reconstruction of the Invasion History of *Gambusia* spp. in India

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### Effectiveness of sacred forests in biodiversity conservation: a meta-analysis

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### Characterizing mammal diversity on North American Great Lakes islands

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**Towards an assisted reproductive technology (ART) platform in songbirds**

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**Invasive alien plant species and their influence in mammals habitat selection**

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**Patterns of adrenal stress hormones in WWII-era Antarctic blue whales and fin whales**

Allison Case<sup>1</sup>, Alyson Fleming<sup>2</sup>, Kathleen Hunt<sup>1,3</sup>, Janine L. Brown<sup>4</sup>, Matthew Savoca<sup>5</sup>, John Ososky<sup>6</sup>, Michael McGowen<sup>6</sup>

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**Amending Hungarian legislation by implementing seed transfer zones**

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**Monitoring adaptive silviculture for wildlife**

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**Siang river in Arunachal Pradesh splits red panda into two phylogenetic species**

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**Global patterns and drivers of human population densities within protected areas**

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**Flight capacity and extinction of birds in the Colombian Andes**

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**Reconstructing recent stress and reproductive history of Rice's whales using baleen**

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**Best-practice hDNA extraction methods for fluid-fixed Malagasy microhylid frogs**

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**Ecological stressors are associated with soil biodiversity in North American forests**

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**Affects of climate change on shorebird nesting phenology**

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### Multi-temporal habitat models using Machine learning in Google Earth Engine

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### Motion detecting camera traps for observing small nocturnal mammals in the Tropics

Tyler Savage<sup>1</sup>, Erin Avanzato, Kelly Bayruns, Zinnia Ruch, Jeffrey Klemens

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### Habitat use by sloth bear in Chitwan National Park, Nepal

Bharat Sharma<sup>1</sup>, S. Sathyakumar<sup>2</sup>

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### Citizen science and roadkill trends in the Korean herpetofauna

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### Propagule pressure of invasive *Lantana camara* is correlated with canopy cover

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### Ecology of *Uraeotyphlus caecilians* in the altered habitats of India's Western Ghats

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### Restoring one billion oysters to New York Harbor by 2035: a collaborative effort

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### The past, present and potential future of phosphorus management in the Everglades

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## 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.

