

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.

Conference Partners:

Yale SCHOOL OF
THE ENVIRONMENT



Hawai'i Institute of Marine Biology
UNIVERSITY OF HAWAI'I



Conference Contributors:

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Society for Conservation Biology
Applied Biomathematics, Inc.

October 3-7, 2022
American Museum
of Natural History

Student Conference on Conservation Science New York

Table of Contents

Acknowledgments	4
General Information	4
Code of Conduct	5
Conference Agenda	6
Monday	6
Tuesday	7
Wednesday	8
Thursday	9
Friday	11
Plenary	12
Presenter Information	13
Advisers, Reviewers, and Mentors	17

Full presentation abstracts are available on the SCCS-NY website: 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).

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Nadav Gazit
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Ana Luz Porzecanski

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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 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.
- The CBC reserves the right to prohibit attendance at any future meeting or conference organized by the CBC.

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 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

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 81st 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**
77th 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 Christie¹, Julia Silva Seixas², William Norfolk³, Rebecca L. Poulson⁴, R. Scott Razier³, Erin Lipp³, Sonia M. Hernandez^{2,4}*¹Odum School of Ecology, University of Georgia, Athens, GA, USA; ²Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA, USA; ³College of Public Health, University of Georgia, Athens, GA, USA; ⁴Southeastern 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 Conklin¹, Evan Barba¹, Luz Ángela López de Mesa Agudelo², Chris Bird², Anna Neuheimer³, Rob Toonen¹*¹Hawai'i Institute of Marine Biology, University of Hawai'i, Kāne'ohe, HI, USA; ²Department of Life Sciences, Texas A&M University—Corpus Christi, Corpus Christi, TX, USA; ³Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Aarhus, Denmark***Entangled assumptions: sea turtles and paper parks in a small-scale fishery**Allison Cutting¹, Terre Satterfield, Rashid Sumaila, Luca Marsaglia, Manuel Cortez*¹University of British Columbia***Living alongside otters**Vinni Jain¹, Krithi K. Karanth¹, Mahi Puri²*¹Centre for Wildlife Studies; ²University of Georgia***The impact of population control on Asian black bear populations in Nagano, Japan**Ririko Koido^{1,2}, Misako Kuroe³, Hitoshi Kuga³, Naoki Ohnishi⁴, Ryosuke Kishimoto³, Yoshiaki Tsuda²*¹Doctoral program in Biology, University of Tsukuba, Tsukuba, Ibaragi, Japan; ²Sugadaira Research Station, Mountain Science Center, University of Tsukuba, Ueda, Nagano, Japan; ³Nagano Environmental Conservation Research Institute, Nagano, Nagano, Japan; ⁴Tohoku research center, Forestry and Forest Products Research Institute, Morioka, Iwate, Japan***Characteristics of elasmobranch fisheries in Malvan provides insights for management**Shruthi Kottillil^{1,2}, Trisha Gupta¹, Muralidharan Manohar Krishnan¹, Chetan Rao¹, Kartik Shanker^{1,3}*¹Dakshin Foundation, Bangalore, Karnataka, India; ²TERI School of Advanced Studies (TERI SAS), New Delhi, India; ³Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Karnataka, India***Review: phylogeography of elasmobranchs based on life history traits and biogeography**Sudha Kottillil^{1,2}, Chetan Rao³, Brian Bowen⁴, Kartik Shanker^{2,3}*¹TERI School of Advanced Studies, India; ²Centre for Ecological Sciences, Indian Institute of Science, Karnataka, India; ³Dakshin Foundation, Karnataka, India; ⁴Hawai'i Institute of Marine Biology, Hawai'i***What makes a conservation-focused video effective?**Darius J. Mahdavi¹, Daniel K. Riskin², Shelby H. Riskin¹*¹Department of Ecology and Evolutionary Biology, University of Toronto; ²Department of Biology, University of Toronto Mississauga***Woodpeckers as indicators of bird diversity and habitat structure in managed forests**Tarun Menon^{1,2,3}, Ghazala Shahabuddin^{1,4}*¹Centre for Ecology Development and Research; ²National Centre for Biological Sciences; ³Indian Institute of Science; ⁴Ashoka University***Collaborative socio-ecological research in community owned forests of Nagaland, India**Ramya Nair¹, Alemba Yimkhiung¹, Jona Yimkhiung¹, Hankiumong Yimkhiung¹, Kiyanmong Yimkhiung¹, Retsucham Yimkhiung¹, Rethsuthong Yimkhiung¹, Yapmuli Yimkhiung¹, Shekhumcha Yimkhiung¹, Sahil Nijhawan^{2,3,4}*¹Wildlife Protection Society of India, New Delhi, India; ²Nature Conservation Foundation, Mysuru, India; ³University College London, London, United Kingdom; ⁴Zoological Society of London, London, United Kingdom***Climatic modelling predicts severe loss in range of endemic Himalayan toad**Vishal Kumar Prasad^{1,2}, Desiree Andersen³, Ghazala Shahabuddin^{4,5}, Amaël Borzée¹*¹Laboratory of Animal Behaviour and Conservation, College of Biology and the Environment, Nanjing Forestry University, Nanjing, People's Republic of China; ²Wildlife Institute of India, P.O. Box 18, Chandrabani, Dehradun - 248001, Uttarakhand, India; ³Laboratory of Animal Communications, Ewha Womans University, Seoul, Republic of Korea; ⁴Ashoka 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

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 Anderson¹, Olivia Smith, Abbey McComb, Anant Deshwal

¹Bradley University

The importance of tiger corridors in conservation of vultures

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

Dubey, Malvika Colvin, Soumen Dey

Central India Landscape, WWF-India, New Delhi, India

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

Mark A. Buckner, Bryan N. Danforth

Cornell University, Department of Entomology, Ithaca, New York, USA

Benefit-cost analysis in adopting ecolabelling certification for oyster mariculture

David S. Cheplick¹, Marzieh Motallebi, Michael Vassalos

¹Washington Sea Grant

Temporal differences in forest disturbances in relation to community conservation

Alexandria E. Cosby¹, Bertrand Andriatsitohaina^{2,3}, Brandon P.M. Edwards⁴, Mamy H.R.

Maheritafika^{2,5}, Mamy Razafitsalama², Travis S. Steffens^{1,2}

¹University of Guelph, Guelph, ON, Canada; ²Planet Madagascar, Guelph, ON, Canada; ³Université de Mahajanga, Mahajanga, Madagascar; ⁴Carleton University, Ottawa, ON, Canada; ⁵University of Antananarivo, Antananarivo, Madagascar

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

Hailey Glasko, Elisa Elizondo, Gregory Shriver

University of Delaware, Newark, DE, USA

The enigma of lion and human coexistence in the Saurashtra landscape

Keshab Gogoi, Yadvendradev V. Jhala

Wildlife Institute of India, Dehradun, 248002, India

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

Alifa Bintha Haque¹, Samantha Sherman²

¹Nature-based Solutions Initiative, Department of Zoology, University of Oxford, Oxford, UK; ²Department of Biological Sciences, Earth to Oceans Research Group, Simon Fraser University, Burnaby, British Columbia, Canada

Understanding global wildlife trade in the fashion industry

Siyeyun Kim

EcoHealth Alliance; University of Washington

Overcoming the political divide to expand support for climate change policy

Scott Kleinberg

Pace University

Natural dye potential of invasive plant species for commercial textile applications

Abigail LaCour¹, Emily Akelaitis¹, Lauren Blanck¹, Jessica Alashoush¹, Zoé Berger¹, Samsad

Jahan¹, Angela Sidoti¹, Becky Flax², John Milligan¹, Marlena Washington¹, Anne Bower¹

¹Thomas Jefferson University, College of Life Sciences, Philadelphia, PA, USA; ²Thomas Jefferson University, School of Design and Engineering, Philadelphia, PA, USA

Invasive mammals largely follow niche conservatism

Biswa Bhusana Mahapatra^{1,2}, Aravind N.A.¹

¹Ashoka Trust for Research in Ecology and the Environment (ATREE), Bengaluru, Karnataka, India; ²Manipal Academy of Higher Education (MAHE), Manipal, Karnataka, India

Understanding the fishers to change the bottom trawl fishery in India

Roshni Mangar^{1,2}, Amanda Vincent^{1,2}, Sarah Foster^{1,2}

¹Project Seahorse Laboratory ²Institute of Oceans and Fisheries

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

Liah McPherson, Fabien Vivier, Lars Bejder

Marine Mammal Research Program, Hawaii Institute of Marine Biology, University of Hawai'i at Manoa, Manoa, HI, USA

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

Clarice Mendes, Jayme Prevedello

Landscape Ecology Lab, Rio de Janeiro State University, Rio de Janeiro, Brazil

Managing with logic in the Monarch Reserve

Miramanni Mishkin

Universidad Nacional Autonoma de Mexico

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

James Paul Oni

Ogba Zoo and Natural Park, Nigeria

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

Nobinraja M.^{1,2}, Ravikanth G.¹

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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

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

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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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Avian assemblages across an urban gradient on the Jos Plateau

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Acoustic deterrents (“pingers”) in reducing mortality of Endangered River dolphins

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Antelope responses to anthropogenic influences may allow their long-term persistence

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Using Local Ecological Knowledge to inform pangolin conservation in Thailand

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

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Exploring people's relationships with nature through private land conservation

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Biogeographic and β -diversity patterns for southern Africa's native freshwater fish

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Wildbook: artificial intelligence, conservation technology, and you

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

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Traditional Ecological Knowledge of Koiari Indigenous People to conserve the Raggiana

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Invasive armored catfish: a major problem in freshwater conservation

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Biogeography and ecology of Squamata associated with karst formation

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

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

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Habitat use by sloth bear in Chitwan National Park, Nepal

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Influence of livestock grazing on summer distribution of blue sheep *Pseudois nayaur*

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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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The role of community committee in the sustainable management of caterpillar fungi

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The effect of helicopter noise pollution on birds on Governors Island

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Tibetan herders' motivations for monitoring snow leopards in Sanjiangyuan, China

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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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