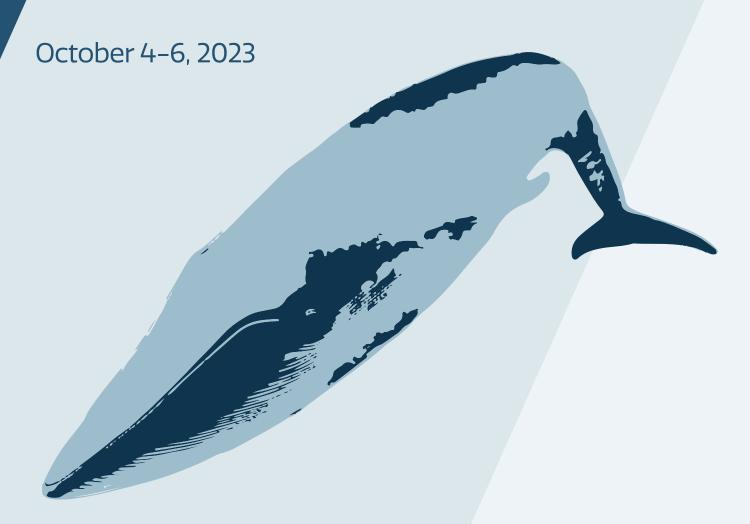
American Museum of Natural History

Center for Biodiversity and Conservation

The Marshall M. Weinberg

STUDENT CONFERENCE ON CONSERVATION SCIENCE NEW YORK



The Marshall M. Weinberg

STUDENT CONFERENCE ON CONSERVATION SCIENCE — NEW YORK



Major funding for the 2023 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.

Conference Partner:

Yale school of the environment

Conference Prize Contributors: American Museum of Natural History

Oryx—The International Journal of

Conservation; Fauna & Flora International

Yale University Press

For access to the online conference platform (including pre-recorded presentation videos, digital versions of posters, presenter Q&A, and mentor feedback), please visit: https://resources.cbc.amnh.org/sccsny/participant

Join the conversation on Twitter: #SCCSNY2023

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

Follow us on Twitter: @CBC_AMNH

LinkedIn: <u>linkedin.com/showcase/center-for-biodiversity-and-conservation/</u>

Please fill out our evaluation form by October 10th:

All responses are kept anonymous. Your comments and feedback will help us improve future conferences. We appreciate your time and we hope you enjoyed SCCS–NY 2023!

bit.ly/SCCSevaluation



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 2023 (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 2023 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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Technology Coordinators:

Pete Ersts AMNH IT Support Team **AMNH AV 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.

In Memory: Eleanor J. Sterling

This year, the Center for Biodiversity and Conservation (CBC) is honored to dedicate the SCCS-NY conference to the memory of Dr. Eleanor J. Sterling, a trail-blazing conservationist and an innovative scientist of global influence. Eleanor was a visionary leader at AMNH, guiding and growing the conservation programs of the CBC for more than 20 years. Eleanor worked to advance conservation through teaching and mentoring. research, on-the-ground conservation, public outreach, and policy. Among these many accomplishments, perhaps Eleanor's most significant contribution was her devoted mentorship of others. She changed the minds and lives of staff, interns, students, mentees, and partners around the world. SCCS-NY was launched in 2010 under Eleanor's leadership, and her generosity, vision, influence, and brilliance will continue to shape this conference for years to come.



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 2023 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, height, weight, 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 or email sccs@amnh.org. Screenshots or any evidence of the concern is helpful but not required.

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
- 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.

COVID-19 and Community Care at SCCS-NY

We want our on-site events to be as safe and comfortable as possible for participants, staff, and the public.

We strongly recommend on-site participants wear masks and test regularly. KN95 or similar masks and COVID-19 rapid antigen tests will be available at the Kaufmann Desk, and we will have hand sanitizer stations throughout conference spaces. We will have optional low-capacity tables during lunches, and containers (upon request) to facilitate taking your meal outdoors, if preferred.

If you have attended any portion of the conference, and then test positive for COVID-19 during or immediately following the conference, you are expected to report this to the conference staff at sccs@amnh.org. If you need to cancel your participation (in-person or virtual), or switch to virtual participation, please contact the conference staff at sccs@amnh.org. Cancellations due to a positive COVID-19 diagnosis will be eligible for registration reimbursement.

You can find additional guidelines for all American Museum of Natural History guests at the Museum's Health and Safety page: amnh.org/plan-your-visit/covid-19-visitors-staff. If you have questions, concerns, or would like to discuss any accommodation needs, please email sccs@amnh.org.

8:30am	Registration / Light Breakfast and Coffee	Kaufmann Desk Blum Classroom
9:00am	Virtual Workshops	
	 Step Up Your Poster Game: Designing Research Posters with Adobe Illustrator A Hands-On Introduction to Spatial Analysis What Am I Doing with My Life? Career Planning for Conservation Researchers and Practitioners Power Relations in Conservation: From Concepts to Practical Applications 	
12:00pm	Registration, Break, and Boxed Lunches	Blum Classroom
12:30pm	On-site Workshops	Meet at Kaufmann Desk
	 Leadership Styles: Identify Your Strengths as a Conservation Leader Landscape Analysis Using Google Earth Engine Interactive, Reproducible, and Accessible Species Distribution Modeling for Conservation With Wallace Data Graphics for Conservation: Show the Data! Applications of Museum Collections and Phylogenomics to Biodiversity Conservation Optimizing Urban Sustainability Co-Benefits for Biodiversity Conservation in New York City: An Interdisciplinary Charrette 	
3:30pm	Break	
3:45pm	Collection Tours	Meet at Kaufmann Desk
5:30pm	Welcome Event / Meet & Greet Coat check closes at 6:15pm	Hall of Human Origins
6:30pm	SciCafe: Protecting our Crowded Planet	Hall of the Universe, Lower Level
	Dr. Nyeema C. Harris Knobloch Family Associate Professor of Wildlife and Land Conservation, Yale School of the Environment	

Thursday, October 5th

9:00am	Registration / Light Breakfast and Coffee	77 th Street Lobby Futter Gallery
9:30am	Plenary: Building an Impactful Career as an "ologist"	Kaufmann Theater
	Dr. Nyeema C. Harris Knobloch Family Associate Professor of Wildlife and Land Conservation, Yale School of the Environment	
10:25am	Break	
10:35am	Talk Session: Conservation in Support of Coexistence	Kaufmann Theater
	Bianca Santos An intersectional analysis of fishers' social-ecological resilience in Palau	
	Sikha Hariharan A tale of two abutting states in India: Differences in approaches to NTFP extraction	
	Cárol Sierra Durán Bats and food security: Insectivorous bats as pest controllers in Mexican rice fields	
	Camille Ross Incorporating prey information into North Atlantic right whale management tools	
11:30am	Break	
11:50am	Talk Session: Advancing the Conservation of Vulnerable Species	Kaufmann Theater
	Pavel Enríquez-Moncayo Chloroplast phylogeny and hybridization of the Galapagos endemic genus <i>Scalesia</i>	
	Ana Maria Saldarriaga Captive population of <i>Crocodylus intermedius</i> : A genetic reservoir to save the species	
	Jasmine Lu Ear mite infection disrupts otic microbial networks in tumor–susceptible island foxes	
12:40pm	Break: Transition to Lunch	
1:00pm	Mentor Cafés and Lunch	School Lunch Rooms, Lower Level

2:45pm Speed Talk Session: Filing in Knowledge Gaps in Conservation 1

Kaufmann Theater

Ariella Kornreich

Rehabilitation outcomes of avian building collision patients

Jessica Espinosa

Can nesting in boxes help endangered roseate terns adjust to sea level rise?

Hiromi Yagui Briones

Restoring invertebrate biodiversity through translocations using grasshoppers

Heather Kostick

Evaluating and understanding biodiversity of cemeteries in Philadelphia, PA, USA

Jessica Kaur

Potential commercial dye application for berries from invasive plant species

Adrianna Muniz

Is there evidence of local adaptation in common milkweed?

Kim Hughes

Diet of bobcats (Lynx rufus) fatally affected by fragmentation in Connecticut, USA

3:35pm Speed Talk Session: Filing in Knowledge Gaps in Conservation 2

Kaufmann Theater

Robin Singleton

Animal management and sacrificial power

Valeria Navarro

Genetic diversity & structure of A. aculeata using DNA microsatellites in Costa Rica

Eva Hernandez-Janer

Wild orangutans and ecological disturbances: Insights from stable isotope analysis

Aamer Khan

Measures of adrenal and gonadal hormones among captive red pandas in Indian zoos

Christopher Gemelli

Photogiraffes: Can opportunistically collected photos create a census for giraffes?

Rijamanalina Harizo Georginnot

First inventory of lemur community in the classified forest of Andilamena, Madagascar

Angela Larios

Asian elephant conservation reducation in Thailand

Tabor Whitney

Non-invasive biomarkers as a conservation tool to assess habitat degradation

5:00pm Poster Session + Pizza Party

Astor Turret & Hall of Primitive Mammals, 4th Floor

9:00am Registration / Light Breakfast and Coffee

Kaufmann Desk Futter Gallery

9:30am Speed Talk Session: Understanding Species' Needs Across the Globe

Kaufmann Theater

James Herlan

Patterns of abundance, size, and dispersion of pocilloporid coral at Rapa Nui

Shilpi Sarkar

Diversity study of marine crabs from coastal region of Bangladesh

Devendra Singh

Diversity of bats from urban and non-urban regions of Uttarakhand Himalaya

Eric Osei-Kwarteng

Hippo conservation status along the Black Volta River in Northern Ghana

Annalee Anderson

Factors affecting common nighthawk distribution in Central Illinois

Igram ul Hag

Breeding biology and conservation issues of Ibisbill in Kashmir Himalaya, India

Desamarie Antonette Fernandez

Spatiotemporal ecology of the collared mongoose in Palawan Island, Philippines

10:25am Talk Session: Monitoring and Modeling Species Across Ecosystems

Kaufmann Theater

Eric Wuesthoff

Intact and regenerating forests differ in primate communities and seed dispersal

Vallari Sheel

Interactions of urban tree and vertebrate species in New Delhi and Bengaluru, India

Kyle Oliveira

Comparison of northwest Atlantic C. carcharias data sources in presence-only models

Annapurna Post-Leon

Identification of functional drought refugia for bigcone Douglas-fir

11:20am Break

Friday, October 6th

Kaufmann Theater 11:40am **Talk Session: Interdisciplinary Conservation Practice** Miaomiao Tian Non-criminal legal responses remedy wildlife through conservation litigation in China Isidoro Hazbun Ancestral tides: Indigenous Knowledge and Protected Area innovation in the Caribbean **Natalie Robinson** Do informative social media captions impact perceptions of human-primate interactions? Ann-Marie Jacoby Historical reconstruction of common bottlenose dolphins in the Potomac River, USA 12:40pm Break: Transition to Lunch School Lunch Mentor Cafés and Lunch 1:00pm Rooms, Lower I evel Kaufmann Theater Speed Talk Session: Humans and Wildlife 2:45pm Simran Prasad Human injury and death: a global review on understudied aspects of wildlife conflict **Brianna Cook** Landscape of fear in mammals in response to anthropogenic hunting patterns Anish Paul Rosettes in a matrix: comparing leopard densities in forests vs production landscapes Shloka Janapaty A new estimate of biocrust contribution to global carbon and nitrogen flux Irmak Erdem The flight capacity of birds in the Ecuadorian Andes influences the patches occupied Zeeshan Khalid Wildlife trafficking goes digital: scale of illegal wildlife trade in Pakistan 3:30pm **Break** Kaufmann Theater 3:45pm **Careers Panel: Exploring Diverse Paths in Conservation** Hall of Mexico and **Awards and Closing Reception** 5:00pm Central America.

2nd Floor

Plenary Speaker

Dr. Nyeema C. Harris

Knobloch Family Associate Professor of Wildlife and Land Conservation, Yale School of the Environment

Building an Impactful Career as an "ologist"

In an era of rapid environmental change, science plays a critical role in securing a sustainable future. What questions are asked but equally important in the science enterprise is how science is conducted and by whom. As an applied ecologist in academia, I reflect on transformative milestones during my training trajectory and how those experiences influenced building my own research program. With impact as the guiding principle, I demonstrate how I intersect my identity and value system into my professional portfolio. Ultimately, career success in science requires the scientists to operate with authenticity, passion, and commitment.

Careers Panel: Exploring Diverse Paths in Conservation

Ingrid Haeckel

Conservation and Land Use Specialist, Hudson River Estuary Program, NYSDEC/ Cornell University Ingrid works with municipal and regional partners to integrate biodiversity conservation into community planning and land use policy. She began her career at Hudsonia Ltd., where she worked on a variety of biodiversity mapping and habitat assessment projects. Ingrid earned her MA degree in Geography with an emphasis in ethnobotany at the University of Texas at Austin. She was an award–winning presenter at the very first SCCS–NY in 2010!

Ashik Rahaman

Research Analyst, K. Lisa Yang Center for Conservation Bioacoustics, Cornell University Ashik focuses on large-scale data analysis and integration of technological advancements in conservation, and currently works on acoustic monitoring of right whales in Massachusetts Bay. Ashik also coordinates education and outreach efforts to communicate research findings to a wide range of stakeholder groups.

Hara Woltz

Artist and Scientist

Hara addresses the destruction and conservation of ecological systems through visual media. Field research is integral to the creation of her work, and her solo and collaborative projects investigate the relationships between humans, the environment, and other living organisms. Hara has worked on a number of global ecological and design projects, including habitat restoration for native species in New Zealand, giant tortoise and Waved Albatross habitat assessment and restoration in Galápagos, Ecuador, and collaborated with the CBC on biological and cultural resilience programs in Solomon Islands, Melanesia.

Moderator:

Mary Blair

Director, Biodiversity Informatics Research, American Museum of Natural History Mary studies the conservation biology of primates and other mammals, and has more than 15 years of field research experience in Latin America and Asia, studying the evolutionary processes that generate biodiversity to inform the spatial prioritization of conservation actions, including under climate change. Her research integrates spatial modeling and molecular genetics alongside knowledge from diverse sources and perspectives in a biocultural conservation framework, which explicitly starts with and builds upon local and Indigenous values, knowledge, and needs while recognizing the interplay between the cultural and biological parts of a system.

Poster Presenters

Toyin Adekanmbi

University of Prince Edward Island

Yara Alshwairikh

Yale University

Lucia Anderson

Penn State University

Pratush Brahma

University of Florida

Sara Bucior

Stony Brook University

Irma Cardenas

St. Francis College

David Cevallos

Charles Darwin Foundation

Lily Davenport

Barnard College

Victoria DeLuccia

Staten Island Zoo

Zhijun Ding

Denison University

Anna Eichert

American Museum of Natural History

Dylan Epstein-Gross

Princeton University

Maria Isabella Escobar

University of Santo Tomas

Mai Fahmy

Fordham University

Liliana Flores

The City College of New York

Hermary Gonzales

University of Wisconsin

Julian Gottfried

Princeton University

Lindsey Hauff

Rutgers University

Alexander Heine

Princeton University

Mack Hughes

University of Alaska Fairbanks

Vedant Janapaty

Silver Creek High School

Eva Jordan

Princeton University

Mae Kennedy

Princeton University

Charlotte Kunesh

Princeton University

Tenzing Lama

Third Pole Conservancy

Siqi Liang

Duke University

Kyra LoPiccolo

The Pennsylvania State University

Molly McCargar

Fordham University

Christina McCosker

University of Maine

Tyler McMahon

Bradley University

Mariana Mendes

Universidade de São Paulo

Fatima Meza Prudencio

St. Francis College

Lara Monteiro

University of Vermont

Priyanka Negi

H.N.B. Garhwal University

Jizhady Paez

Saint Peter's University

Medha Pandey

Fordham University

Colin Peterson

University of Georgia

Alyssa Quan

University of Georgia

Poster Presenters

Danilo Rocenovic

Saint Peter's University

Katharine Rush

Fordham University

Anne Sabol

Florida International University

Dipesh Sharma

University of Quebec at Rimouski

Sabmeet Singh

Maharaja Ganga Singh University

Sophie Spink

Barnard College

Danielle Sublett

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Emily Zhu

Stony Brook University

Marquez White

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Nicholas Friedenberg

Corteva Agriscience R&D

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Fordham University & American Museum of Natural

History

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Christian Rivera

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Brian Shmaefsky

Lone Star College - Kingwood

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Molloy University

Anne Toomey

Pace University

Mike Treglia

The Nature Conservancy

Laura Twersky

Saint Peter's University

Connie Van der Byl

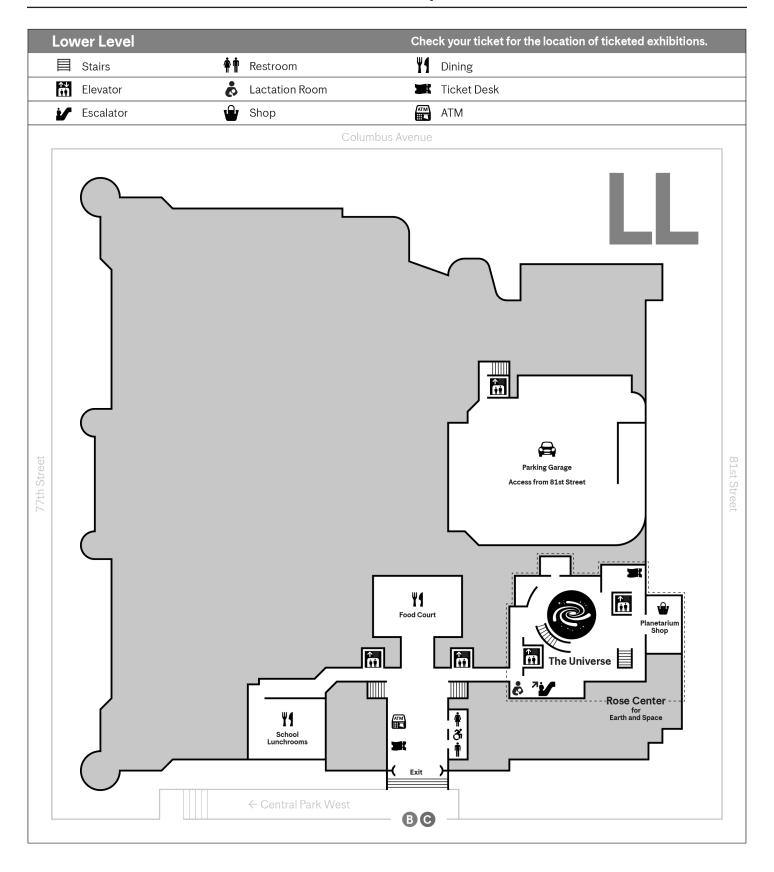
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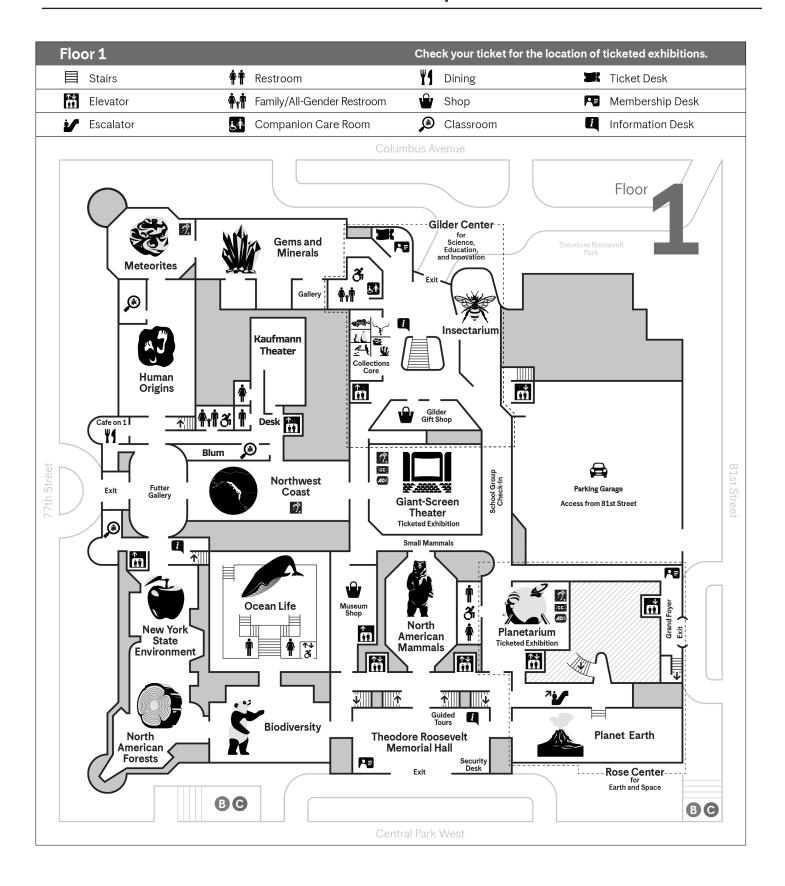
Jorge Velasquez

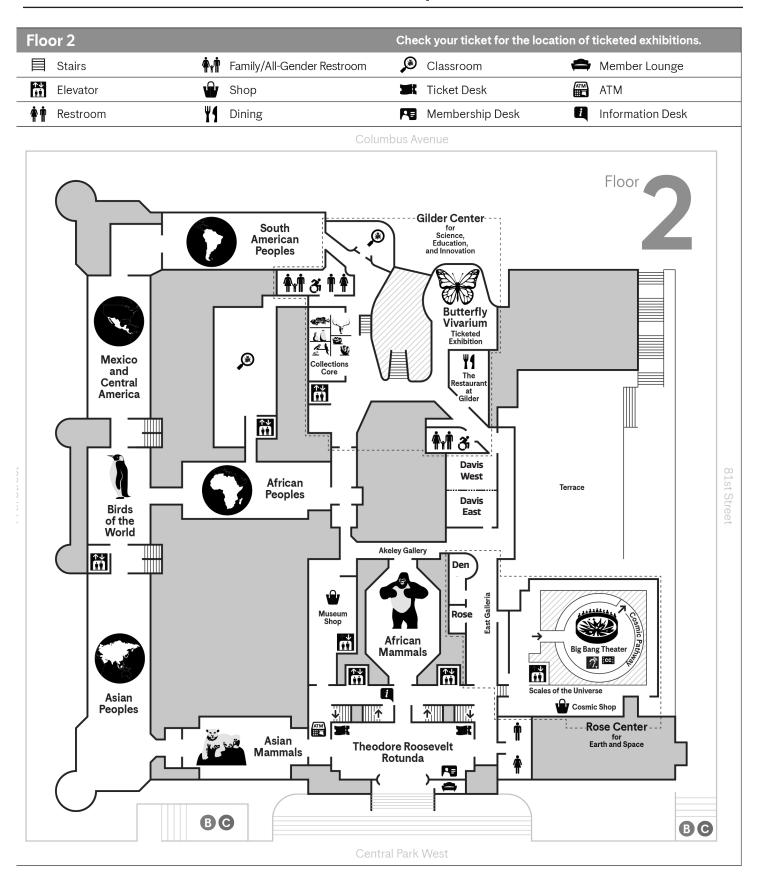
National Audubon Society

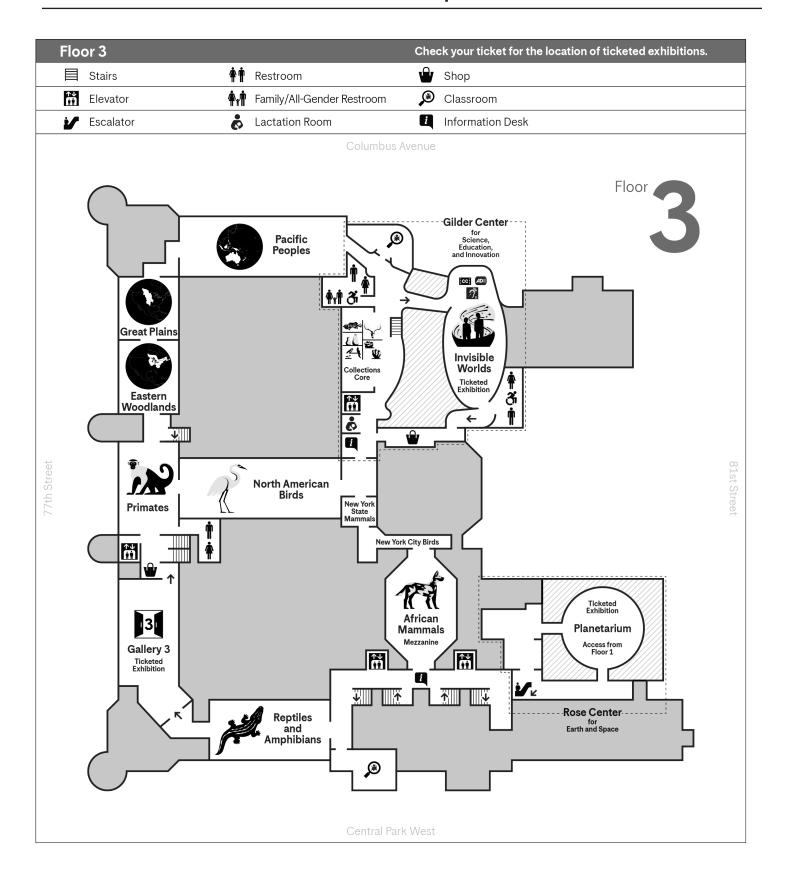
Erin Vogel

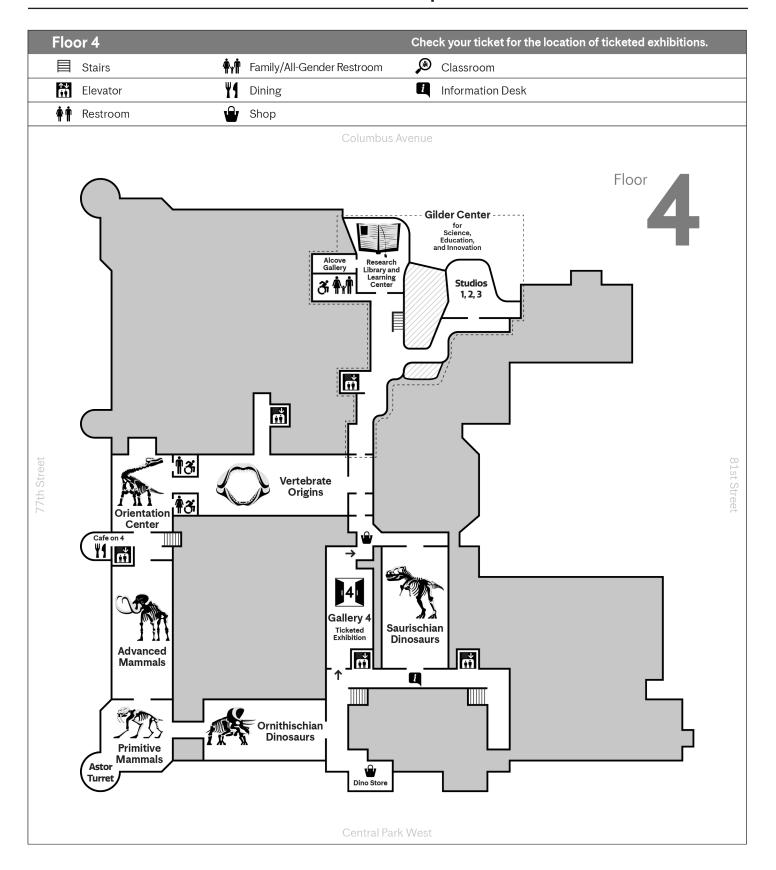
Rutgers University











About SCCS-NY Content

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.

The Center for Biodiversity and Conservation

Understanding life on Earth and how to sustain it for the future is the fundamental challenge of our time. The American Museum of Natural History is devoted to understanding our universe, our planet, and our role as humans. Through its Center for Biodiversity and Conservation (CBC), the Museum acts on that understanding and advances our collective endeavor of learning to live in harmony with nature. Our work aims to bring strong evidence—from multiple sources of knowledge and perspectives—to bear on complex conservation challenges, and to foster collaboration on robust, innovative, and equitable solutions. The challenge is both scientific and social, so we work by connecting different strands of knowledge in our research, connecting people to knowledge, and connecting people to each other.