

Maya Juman

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EDUCATION

PhD in Biological Sciences, Gates Cambridge Scholar
Department of Veterinary Medicine, University of Cambridge, UK

Beginning October 2022

B.S. in Ecology & Evolutionary Biology, *magna cum laude*, with distinction (3.91/4.00)
Yale University, New Haven, CT, USA

May 2020

RESEARCH

Mammalian Evolutionary Morphology Lab, Yale University (Advisor: Dr. Eric Sargis) 2018 – Present

- Investigated treeshrew ecogeography through the collection and R-based analysis of morphometric museum data.
- Revised taxonomy, range, and conservation status of *Tupaia tana*, *Tupaia minor*, and *Ptilocercus lowii*.
- Ongoing projects include taxonomic revisions of South Asian treeshrews (*Tupaia belangeri* and *Anathana ellioti*).

Herpetology Department, American Museum of Natural History (Advisor: Dr. Sara Ruane) 2014 – 2017

- Explored ecological diversity and adaptive radiation in gemsnakes (Pseudoxypophinae) from Madagascar.
- Described a new species, *Mimophis occultus*, through an integrative analysis of genetic and morphological data.

PUBLICATIONS

Juman, M.M., Woodman, N., Miller-Murthy, A., Olson, L.E., Sargis, E.J. (*in press*) Taxonomic boundaries in Lesser Treeshrews (Scandentia, Tupaiidae: *Tupaia minor* Günther, 1876). *Journal of Mammalogy*.

Juman, M.M., Olson, L.E., Sargis, E.J. (2021) Skeletal variation and taxonomic boundaries in the Pen-tailed Treeshrew (Scandentia, Ptilocercidae: *Ptilocercus lowii* Gray, 1848). *Journal of Mammalian Evolution* 28(4): 1193-1203.

Juman, M.M., Woodman, N., Olson, L.E., Sargis, E.J. (2021) Ecogeographic variation and taxonomic boundaries in Large Treeshrews (Scandentia, Tupaiidae: *Tupaia tana* Raffles, 1821) from Southeast Asia. *Journal of Mammalogy* 102(4): 1054-1066.

Ruane, S., Myers, E.A., Lo, K., Yuen, S., Welt, R.S., **Juman, M.M.**, Futterman, I., Nussbaum, R.A., Schneider, G., Burbrink, F.T., Raxworthy, C.J. (2018) Unrecognized species diversity and new insights into colour pattern polymorphism within the widespread Malagasy snake *Mimophis* (Serpentes: Lamprophiidae). *Systematics and Biodiversity* 16(3): 229-244.

RESEARCH PRESENTATIONS

Juman, M.M., Woodman, N., Miller-Murthy, A., Olson, L.E., Sargis, E.J. Taxonomic boundaries in Lesser Treeshrews. **Presented at the Meeting of the American Society of Mammalogists**, virtual (6/18/2022).

Juman, M.M., Olson, L.E., Sargis, E.J. Skeletal variation and taxonomic boundaries in the Pen-tailed Treeshrew. **Presented at the Meeting of the American Society of Mammalogists**, virtual (6/15/2021).

Juman, M.M. Ecogeographic variation and taxonomic boundaries in Large Treeshrews (Mammalia, Scandentia) from Southeast Asia. **Mellon Forum Senior Thesis Presentation**, Saybrook College, Yale University (3/3/2020).

Juman, M.M., Woodman, N., Olson, L.E., Sargis, E.J. Hand proportions and taxonomic boundaries among Large Treeshrews. **Presented at the Meeting of the American Society of Mammalogists**, Washington, D.C. (6/29/2019).

Juman, M.M. Species boundaries among Large Treeshrews. **Yale-Smithsonian Summer Research Presentation**, Yale Peabody Museum of Natural History (11/2/2018).

Juman, M.M. and Futterman, I. Malagasy snake morphology. **Presented at Science Research Mentoring Program Symposium**, American Museum of Natural History (6/4/2015).

FELLOWSHIPS AND AWARDS

Gates Cambridge Scholarship (£207,280)	2022 – 2026
NSF Graduate Research Fellowship (\$138,000, <i>declined</i>)	2022 – 2025
Fulbright U.S. Student Research Fellowship to Malaysia (\$18,000, <i>postponed due to COVID-19</i>)	2021 – 2022
Travel Awards (\$200, \$400), American Society of Mammalogists	2021, 2022
Y-Work Award for Outstanding Student Employees (\$200), Yale University	2020
Undergraduate Honorarium (\$1,200), American Society of Mammalogists	2019
Dean's Research Fellowship in the Sciences (\$4,300), Yale University	2019
Alan S. Tetelman Fellowship for International Research in the Sciences (\$3,600), Yale University	2019
Yale Summer Environmental Fellowship (\$2,000), Yale School of the Environment	2019
Richter Summer Fellowship (\$1,000), Saybrook College	2019
Summer Internship Stipend (\$4,000), Yale-Smithsonian Partnership	2018
Karen L. Von Damm Undergraduate Research Fellowship (\$3,784), Yale Earth & Planetary Sciences	2017

TEACHING

S&DS S230: Data Analysis and Exploration , Yale University <i>Teaching assistant (held office hours, graded assignments, demonstrated R code)</i>	Summer 2020
ANTH S242: Human Evolutionary Biology , Yale University <i>Writing fellow (served as primary writing resource for 90 students)</i>	Summer 2020
BIOL 104: Ecology and Evolutionary Biology , Yale University <i>Guest lecturer (led virtual tour of Peabody Museum collections)</i>	April 24 2020
MCDB 105a: Biology, the World, and Us , Yale University <i>Guest lecturer (on Peabody Museum collections)</i>	April 15 2020
EVST 007: The New England Forest , Yale University <i>Guest lecturer (led tour of Peabody Museum collections)</i>	November 21 2019
Yale College Writing Center <i>ESL-Certified Writing Partner (held weekly drop-in tutoring hours open to all undergraduates, provided personalized writing feedback to non-native English speakers)</i>	2017 – 2020

SCIENCE COMMUNICATION

Species Page Contributor , India Biodiversity Portal (indiabiodiversity.org)	2022 – Present
<ul style="list-style-type: none">• Validate and identify observations of Scandentia (treeshrews) in an open citizen science database.• Edit and update species information, literature, and taxonomy for treeshrews and other small mammals.	

- Founder and administrator of the Small Mammals of India microsite, which aggregates and maps observations to raise awareness of Indian biodiversity and inform research and conservation efforts.

Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) 2016 – 2020

- Led behind-the-scenes tours to encourage public engagement with the Peabody's collections and research.
- Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project.
- Led and produced a remote tour during the COVID-19 pandemic for Yale's introductory biology course.

Podcast Host and Producer, "Inkredible: A Cephalopodcast," published on SoundCloud, Apple, and Spotify 2019

- Created an original episode about biological ink, accompanied by a website (inkrediblepod.wordpress.com).

Photographer, "Peabody Portraits," presented at Yale School of Art 2019

- Edited and compiled a portfolio of DSLR images of the Yale Peabody Museum's paleontology collections.

Writer, "The Taming of the Treeshrew" (tamingofthetreeshrew.wordpress.com) 2018

- Maintained a blog documenting collections-based research experiences at Yale and the Smithsonian.

STEM Representative, Yale Admissions Office (part-time job) 2017 – 2019

- Produced virtual content about research opportunities at Yale, including hosting a Peabody Museum tour for the Yale Admissions Snapchat account.
- Presented on STEM panels during admitted student weekends (with 1000+ students in attendance each year).

OUTREACH AND MENTORSHIP

Letters to a Pre-Scientist 2021 – Present

STEM pen pal (wrote science-themed letters in Spanish and English to middle schoolers in underserved school districts)

Yale Ecology & Evolutionary Biology Undergraduate Group 2019 – 2020

Co-president (organized research panels, social events, and funding application workshops for students)

Department of Ecology & Evolutionary Biology, Yale University 2019 – 2020

Peer Mentor (advised first-years and sophomores through individual meetings and group study breaks)

PUBLIC SERVICE

COVID-19 Response Coordinator, Philadelphia Department of Public Health (full-time job) June 2020 – Present

- Supervise a team of contact tracers and investigate high-risk COVID-19 clusters.
- Design monthly software updates to streamline the collection and management of epidemiological data.
- Synthesize and present weekly exposure patterns to Chief of Operations and Philadelphia Health Commissioner.

Health Center Advocacy Volunteer, Planned Parenthood New Haven (volunteer) 2017 – 2018

- Interviewed patients and family members about their experiences with healthcare as part of a campaign to engage and empower visitors.

National Crew Member, Student Conservation Association (volunteer) Summers 2015 and 2016

- Participated in month-long conservation crews at Cape Cod National Seashore and Hiawatha National Forest, restoring trails with other students while backcountry camping (funded by the National Park Service).

INVITED TALKS AND PANELS

"Viruses, Variants, Virulence: Lessons from Ecology and Evolution"

1/25/2022

Philadelphia Department of Public Health

Alumni Career Panel, Science Research Mentoring Program
American Museum of Natural History

6/22/2019, 9/10/2021

“Scientific and cultural uses of cephalopod ink”

2/13/2020

Yale Peabody Museum of Natural History (first undergraduate student invited to deliver a public gallery talk)

Science and Engineering Forum for Admitted Students

4/15/2017, 4/25/2017, 4/7/2018, 4/24/2018

Yale University

OTHER SKILLS AND EXPERIENCE

Museum work:

- *Research internships:* American Museum of Natural History (2014-2016, Herpetology); U.S. National Museum of Natural History (Summer 2018, Mammalogy); Yale Peabody Museum of Natural History (Summer 2018, Mammalogy)
- *Collection visits:* U.S. National Museum of Natural History (2019); Harvard Museum of Comparative Zoology (2019); Yale Peabody Museum of Natural History (2019); Field Museum of Natural History (2019); Natural History Museum, London (2019); American Museum of Natural History (2019)
- *Employment:* Yale Peabody Museum of Natural History (2016-2020, Invertebrate and Vertebrate Paleontology Collections Assistant); University of Alaska Museum of the North (2022, Mammalogy Research Technician)

Field work:

- *Juneau, AK, USA:* Collected hoary marmots and bumble bees from remote alpine regions for the University of Alaska Museum (July 2022).
- *Black Rock Forest, NY, USA:* Trapped, tagged, and measured painted turtles for long-term population study (August 2014).

Reviewer: PLoS ONE (2022)

Languages: English, Spanish (proficient), Hindi (read/write), Malayalam (read/write)

Software: R, Python, ArcGIS, JMP, EMu, FileMaker, Structure, BEAST, BPP, ImageJ, Adobe InDesign and Photoshop

Professional Affiliations: American Society of Mammalogists (2019 –)