

# Maya Juman

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## EDUCATION

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

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**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

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**Juman, M.M.**, Woodman, N., Miller-Murthy, A., Olson, L.E., Sargis, E.J. (*accepted with minor revisions*) 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

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Juman, M.M., Woodman, N., Miller-Murthy, A., Olson, L.E., Sargis, E.J. Taxonomic boundaries in Lesser Treeshrews. **To be presented at the Meeting of the American Society of Mammalogists**, Tucson, AZ (6/17/2022).

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

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Gates Cambridge Scholarship (£207,280)	2022-2026
Fulbright U.S. Student Research Fellowship to Malaysia (\$18,000)	2021-2022
Travel Award (\$200), American Society of Mammalogists	2021
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

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

## SCIENCE COMMUNICATION

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

- 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](http://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](http://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

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- 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

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- 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

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- “Viruses, Variants, Virulence: Lessons from Ecology and Evolution”** 1/25/2022  
*Philadelphia Department of Public Health*
- Alumni Career Panel**, Science Research Mentoring Program 6/22/2019, 9/10/2021  
*American Museum of Natural History*

**“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**

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**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); University of Alaska Museum of the North (2022, Mammalogy)

**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 –)