

Maya Juman

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EDUCATION

Ph.D. in Biological Sciences, Gates Cambridge Scholar
Department of Veterinary Medicine, University of Cambridge, UK

Fall 2022 – Present

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

May 2020

PEER-REVIEWED PUBLICATIONS

Juman, M.M., Olson, L.E., Sargis, E.J. (*submitted*) Craniometric variation and taxonomic boundaries in the Madras Treeshrew (Scandentia, Tupaiidae: *Anathana ellioti* [Waterhouse, 1850]) from India. *Journal of Mammalian Evolution*.

Juman, M.M., Woodman, N., Miller-Murthy, A., Olson, L.E., Sargis, E.J. (2022) Taxonomic boundaries in Lesser Treeshrews (Scandentia, Tupaiidae: *Tupaia minor* Günther, 1876). *Journal of Mammalogy* 103(6): 1431-1440.

Juman, M.M., Millien, V., Olson, L.E., Sargis, E.J. (2022) Recent and rapid ecogeographical rule reversals in Northern Treeshrews. *Scientific Reports* 12: 19689.

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., Burbink, 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., Restif, O. Seasonal and spatial patterns of henipavirus seroprevalence in Straw-colored Fruit Bats (*Eidolon helvum*). **To be presented at the British Ecological Society Annual Meeting**, Belfast, UK (12/14/2023).

Juman, M.M., Millien, V., Olson, L.E., Sargis, E.J. Recent and rapid ecogeographical rule reversals in Northern Treeshrews. **Presented at the International Mammalogical Congress**, Anchorage, AK (7/14/2023).

Juman, M.M., Restif, O. Seasonal and spatial patterns of henipavirus seroprevalence in Straw-coloured Fruit Bats (*Eidolon helvum*). **Presented at the Cambridge Infectious Diseases Symposium** (4/4/2023), **Cambridge Disease Dynamics Unit Seminar** (5/18/2023), and the **Bat One Health Consortium** (6/26/2023).

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).

IUCN RED LIST ASSESSMENTS

Juman, M.M., Sargis, E.J. (*accepted*) *Tupaia belangeri*. The IUCN Red List of Threatened Species 2023.

Juman, M.M., Sargis, E.J. (*accepted*) *Tupaia minor*. The IUCN Red List of Threatened Species 2023.

Juman, M.M., Sargis, E.J. (*accepted*) *Ptilocercus lowii*. The IUCN Red List of Threatened Species 2023.

Juman, M.M., Sargis, E.J. (*accepted*) *Tupaia tana*. The IUCN Red List of Threatened Species 2023.

FELLOWSHIPS, GRANTS, AND AWARDS

Accelerate-C2D3 (Cambridge Centre for Data-Driven Discovery) Research and Innovation Grant (£9,303) 2023
Harnessing AI to unlock natural history collections for zoonotic surveillance

Gates Cambridge Scholarship (full PhD tuition + £20,000/year stipend) 2022 – 2026

NSF Graduate Research Fellowship (\$138,000, *declined*) 2022 – 2025

Fulbright U.S. Student Research Fellowship to Malaysia (\$18,000, *postponed due to COVID-19*) 2021 – 2022

Travel Awards (\$200, \$400, \$600), American Society of Mammalogists 2021, 2022, 2023

Y-Work Award for Outstanding Student Employees, Yale University 2020

Undergraduate Research 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

Part I Pathology: Mathematical Biology, University of Cambridge Easter Term 2023
Demonstrator (assessed students' R code for a practical assignment on epidemiological modeling)

Part II Zoology L1: Mammalian Evolution and Comparative Anatomy, University of Cambridge Lent Term 2023
Supervisor (led specimen-based small group teaching for third-year undergrads, provided writing feedback)

S&DS S230: Data Analysis and Exploration, Yale University Summer 2020
Teaching assistant (held office hours, graded assignments, demonstrated R code)

ANTH S242: Human Evolutionary Biology, Yale University Summer 2020
Writing fellow (served as primary writing resource for 90 students)

BIOL 104: Ecology and Evolutionary Biology, Yale University 4/24/2020

MCDB 105a: Biology, the World, and Us, Yale University 4/15/2020

EVST 007: The New England Forest, Yale University
Guest lecturer (led in-person and virtual tours of Peabody Museum collections)

11/21/2019

Yale College Writing Center 2017 – 2020
ESL-Certified Writing Partner (held weekly drop-in tutoring hours open to all undergraduates, provided writing feedback to non-native English speakers)

SCIENCE COMMUNICATION

Species Page Contributor, India Biodiversity Portal (indiabiodiversity.org) 2022 – Present

- 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.

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 (e.g. museum tours for Yale Snapchat account).
- Presented on STEM panels during admitted student weekends (with 1000+ students in attendance each year).

OUTREACH AND MENTORSHIP

Cambridge Science Festival March 2023

Activity organizer (designed and ran a "bat virus hunting" activity for families visiting the veterinary school)

Ecology and Evolutionary Biology Mentor Match 2022 – Present

Mentor (provide personalized feedback to undergraduate students applying to graduate school and fellowships)

Letters to a Pre-Scientist 2021 – Present

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

Alumni Career Panels, American Museum of Natural History 6/22/2019, 9/10/2021, 9/30/2022

Panelist (spoke about college admissions, academic career paths, and research opportunities with NYC high school students enrolled in the museum's Science Research Mentoring Program)

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) 2020 – 2022
- Supervised a team of contact tracers and investigate high-risk COVID-19 clusters.
 - Designed monthly software updates to streamline the collection and management of epidemiological data.
 - Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Commissioner.

INVITED TALKS AND PANELS

- “Recent and rapid ecogeographical rule reversals in Northern Treeshrews”** 12/7/2022
Olson Lab, University of Alaska Fairbanks
- “Viruses, Variants, Virulence: Lessons from Ecology and Evolution”** 1/25/2022
Philadelphia Department of Public Health
- “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)

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, 2023); 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 (2022–, Mammalogy Research Technician)

Field work:

- *Southeast Alaska, USA*: Collected hoary marmots and bumble bees from remote alpine regions for the University of Alaska Museum (July 2022, July 2023).
- *Black Rock Forest, NY, USA*: Trapped, tagged, and measured painted turtles for long-term population study (August 2014).

Editor:

- *Editor-in-Chief*, The Scholar, Gates Cambridge Council (thescholar.online and [Spotify](https://open.spotify.com/show/18333333333333333333)): Oversaw the production of the Gates Cambridge community’s annual magazine, which includes articles, photo essays, videos, and podcast contributions from current scholars and alumni (2022–2023).

Reviewer: iScience (2023), Journal of Mammalogy (2023), PLoS ONE (2022), Philippine Journal of Science (2022)

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

Software: R, Python, ArcGIS, EMu, FileMaker, ImageJ, Adobe InDesign and Photoshop

Professional Affiliations: American Society of Mammalogists (2019–), British Ecological Society (2022–)