mmj38@cam.ac.uk mayajuman.github.io

EDUCATION

Ph.D. in Biological Sciences, Gates Cambridge Scholar University of Cambridge

2022 – (Expected 2026)

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

2020

PEER-REVIEWED PUBLICATIONS

- 10. Betke, B.A., **Juman, M.M.**, O'Shea, M., Fagre, A., Frank, H., Becker, D.J., Poisot, T. (*in review*) Why don't bats get sick from viruses? *Frontiers in Young Minds*.
- 9. **Juman, M.M.**, Restif, O., Becker, D.J. (*in review*) Paramyxoviruses in Old World fruit bats (Pteropodidae): an open database and synthesis of sampling effort, viral positivity, and coevolution. *PLOS Pathogens*. Preprint: https://doi.org/10.1101/2025.03.10.642350.
- 8. **Juman, M.M.**, Gibson, L., Suu-Ire, R.D., Languon, S., Quaye, O., Fleischer, G., Asumah, S., Jolma, E.R., Gautam, A., Sterling, S.L., Yan, L., Broder, C.C., Laing, E., Wood, J.L.N., Cunningham, A.A., Restif, O. (2024) Ecological and reproductive cycles drive henipavirus seroprevalence in the African Straw-Coloured Fruit Bat (*Eidolon helvum*). *Ecology and Evolution* 14: e70555.
- 7. Olson, L.E., **Juman, M.M.** (2024) Host taxonomy is critical in zoonotic disease surveillance and reporting. *Journal of Wildlife Diseases* 60: 554-555.
- 6. **Juman, M.M.**, Olson, L.E., Sargis, E.J. (2024) Craniometric variation and taxonomic boundaries in the Madras Treeshrew (Scandentia, Tupaiidae: *Anathana ellioti* Waterhouse, 1850) from India. *Journal of Mammalian Evolution* 31:4.
- 5. **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: 1431-1440.
- 4. **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.
- 3. **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: 1193-1203.
- 2. **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: 1054-1066.
- 1. 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: 229-244.

RESEARCH PRESENTATIONS (*TRAVEL AWARD RECIPIENT)

- 9. **Juman, M.M.**, McDonough, M.M., Ferguson, A.W., Han, B.A., Becker, D.J. Model-guided paramyxovirus discovery in museum bat collections. BatID 2025: International Symposium on the Infectious Diseases of Bats, Chicago (upcoming).
- 8. **Juman, M.M.***, McDonough, M.M., Ferguson, A.W., Han, B.A., Becker, D.J. Model-guided paramyxovirus discovery in museum bat collections. American Society of Mammalogists, West Lafayette, Indiana (upcoming).
- 7. **Juman, M.M.***, Han, B.A., Becker, D.J. Model-guided henipavirus discovery in museum bat collections. Hendra@30: Henipavirus International Conference, Geelong, Australia (12/9/2024).
- 6. **Juman, M.M.** Museums, Microbes, and the Machine: AI-driven pathogen surveillance in natural history collections. "Zoonotic Collecting": The Fourth Annual Conference of The Global War Against the Rat and the Epistemic Emergence of Zoonosis, St Andrews, Scotland (6/25/2024).
- 5. **Juman, M.M.**, Restif, O. Seasonal and spatial patterns of henipavirus seroprevalence in Straw-Coloured Fruit Bats (*Eidolon helvum*). British Ecological Society Annual Meeting, Belfast, Northern Ireland (12/15/2023).
- 4. **Juman, M.M.***, Millien, V., Olson, L.E., Sargis, E.J. Recent and rapid ecogeographical rule reversals in Northern Treeshrews. International Mammalogical Congress 13, Anchorage, AK (7/14/2023).
- 3. **Juman, M.M.***, Woodman, N., Miller-Murthy, A., Olson, L.E., Sargis, E.J. Taxonomic boundaries in Lesser Treeshrews. American Society of Mammalogists, virtual (6/18/2022).

- 2. **Juman, M.M.***, Olson, L.E., Sargis, E.J. Skeletal variation and taxonomic boundaries in the Pen-tailed Treeshrew. American Society of Mammalogists, virtual (6/15/2021).
- 1. **Juman, M.M.**, Woodman, N., Olson, L.E., Sargis, E.J. Hand proportions and taxonomic boundaries among Large Treeshrews. American Society of Mammalogists, Washington, D.C. (6/29/2019).

IUCN RED LIST ASSESSMENTS

Juman, M.M., Sargis, E.J., Talmale, S.S. (2024) Anathana ellioti. The IUCN Red List of Threatened Species.

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

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

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

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

FELLOWSHIPS AND RESEARCH GRANTS

| Accelerate-C2D3 (Cambridge Centre for Data-Driven Discovery) Extension Grant (£10,000) | 2025 |
|---|-------------|
| Graduate Research Grant, Selwyn College, University of Cambridge (£400) | 2024 |
| Graduate Field Work Grant, Department of Veterinary Medicine, University of Cambridge (£2,600) | 2024 |
| James L. Patton Award for Museum-Based Research, American Society of Mammalogists (\$5,000) | 2024 |
| Verena (Viral Emergence Research Initiative) Fellow-in-Residence Award (\$5,000) | 2024 |
| Accelerate-C2D3 (Cambridge Centre for Data-Driven Discovery) Research and Innovation Grant (£9,303) | 2023 |
| Gates Cambridge Scholarship (full PhD tuition + £21,000/year stipend) | 2022 - 2026 |
| NSF Graduate Research Fellowship (\$138,000, declined) | 2022 - 2027 |
| Fulbright U.S. Student Research Fellowship to Malaysia (\$18,000, postponed due to COVID-19) | 2021 - 2022 |
| Dean's Research Fellowship in the Sciences, Yale University (\$4,300) | 2019 |
| Alan S. Tetelman Fellowship for International Research in the Sciences, Yale University (\$3,600) | 2019 |
| Yale Summer Environmental Fellowship, Yale School of the Environment (\$2,000) | 2019 |
| Richter Summer Fellowship, Saybrook College, Yale University (\$1,000) | 2019 |
| Karen L. Von Damm Undergraduate Research Fellowship, Yale Earth & Planetary Sciences (\$3,784) | 2017 |

HONORS AND AWARDS

| Abcam Research Prize, Department of Veterinary Medicine, University of Cambridge (£250) | 2025 |
|---|------|
| Best Poster Award and Best Flash Talk Award, Department of Veterinary Medicine, University of Cambridge | 2025 |
| Travel Award, American Society of Mammalogists (\$800) | 2025 |
| Best Poster Award, Cambridge Infectious Diseases Annual Symposium | 2025 |
| Travel Award, American Society of Mammalogists (\$600) | 2023 |
| Travel Award, American Society of Mammalogists (\$400) | 2022 |
| Travel Award, American Society of Mammalogists (\$200) | 2021 |
| Y-Work Award for Outstanding Student Employees, Yale University | 2020 |
| Undergraduate Research Honorarium, American Society of Mammalogists (\$1,200) | 2019 |
| | |

TEACHING

| TEACHING | |
|---|------------------|
| Part II Zoology: Mammal Evolution and Comparative Anatomy, University of Cambridge | 2023, 2024, 2025 |
| Supervisor (led specimen-based small group teaching for third-year undergraduates, provided writi | ing feedback) |
| Pegasus Bridging Programme, Robinson College, University of Cambridge | September 2024 |
| Supervisor (led personalized museum tours for incoming undergraduates in college preparation pro | ogram) |
| Part I Pathology: Mathematical Biology, University of Cambridge | May 2023 |
| Demonstrator (assessed students' R code for a practical assignment on epidemiological modeling) | |
| 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) | |
| Yale College Writing Center, Yale University | 2017 - 2020 |
| ESL-Certified Writing Partner (held weekly drop-in hours and provided feedback to non-native Eng | lish writers) |

SCIENCE COMMUNICATION AND OUTREACH

| · · · · · · · · · · · · · · · · · · · | 2023, 2024, 202 |
|--|---|
| Activity organizer (designed and ran a "bat virus hunting" activity for families visiting the veterinary | , |
| Skype a Scientist | 2023 – Prese |
| Guest scientist (discuss research and STEM careers with K-12 science students in the U.S., Ireland, a | * / |
| Women of Color in Ecology and Evolutionary Biology Mentor Match (<u>wocineeb.org</u>) | 2023 – Prese |
| Mentor (run quarterly check-in meetings with undergraduate and graduate students from Singapore of | |
| Ecology and Evolutionary Biology Mentor Match (<u>eebmentormatch.com</u>) | 2022 – Prese |
| Mentor (provide personalized feedback to U.S. undergraduate students applying to graduate school a | |
| Letters to a Pre-Scientist | 2021 – Prese |
| STEM pen pal (write bilingual science-themed letters to middle schoolers in underserved U.S. school | districts) |
| Alumni Career Panels, American Museum of Natural History 6/22/2019, 9/10 | |
| Panelist (spoke about college admissions, academic career paths, and research with NYC high schoo | lers) |
| Yale Ecology & Evolutionary Biology Undergraduate Group | 2019 - 202 |
| Co-President and Peer Mentor (organized research panels, social events, and workshops for students | s) |
| 'Inkredible: A Cephalopodcast," published on Spotify (inkrediblepod.wordpress.com) | 20 |
| Hosted and produced an original podcast episode about biological ink, accompanied by a website. | |
| 'The Taming of the Treeshrew'' (<u>tamingofthetreeshrew.wordpress.com</u>) | 20 |
| Maintained a blog documenting collections-based research experiences at Yale and the Smithsonian. | |
| | |
| EMPLOYMENT | |
| COVID-19 Response Coordinator, Philadelphia Department of Public Health (full-time job) | 2020 – 202 |
| • Supervised a team of contact tracers and investigated high-risk COVID-19 clusters. | 2020 20. |
| Designed monthly software updates to streamline the collection and management of epidemiology | ical data |
| Designed monthly software abadies to streamline the collection and management of ebidemiologic | |
| | |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Comm | nissioner. |
| • Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Comm Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) | nissioner. 2016 – 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection | nissioner. 2016 – 202 |
| • Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Comm Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) | nissioner. 2016 – 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collectio Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. | nissioner. 2016 – 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED | nissioner. 2016 – 202 ns and researc |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research into | nissioner. 2016 – 202 ns and researc |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research into Lewis Drummond, University of Cambridge (direct supervisor for Part II research project) | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research international contents of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research internations) | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collectio Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research international Common Comm | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research interpretation of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research interpretation of the University (provided training in R-based multivariate analyses for senior thesis) | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Commodition of Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research interpretation of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research interpretation of the Commodition of the Com | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research international contents of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research international Handler, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS "Model-guided paramyxovirus discovery in museum bat collections" | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 aship) 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Commodule and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research into Lewis Drummond, University of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research international Handler, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS Model-guided paramyxovirus discovery in museum bat collections" Holleley Lab, Australian National Wildlife Collection (CSIRO) | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 1/28/202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research interactions Drummond, University of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research interactions Handler, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS "Model-guided paramyxovirus discovery in museum bat collections" Holleley Lab, Australian National Wildlife Collection (CSIRO) "Ecological and reproductive cycles drive henipavirus seroprevalence in Eidolon helvum" | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 aship) 202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research interactions Drummond, University of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research interactions Handler, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS Model-guided paramyxovirus discovery in museum bat collections" Holleley Lab, Australian National Wildlife Collection (CSIRO) 'Ecological and reproductive cycles drive henipavirus seroprevalence in Eidolon helvum" Peel Lab, Griffith University | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 1/28/202 11/19/202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research interaction of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research interaction of the Normal Static Handler, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS "Model-guided paramyxovirus discovery in museum bat collections" Holleley Lab, Australian National Wildlife Collection (CSIRO) "Ecological and reproductive cycles drive henipavirus seroprevalence in Eidolon helvum" Peel Lab, Griffith University "Model-guided paramyxovirus discovery in museum bat collections" | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 1/28/202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research interaction of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research interaction (Katie Handler, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS "Model-guided paramyxovirus discovery in museum bat collections" Holleley Lab, Australian National Wildlife Collection (CSIRO) "Ecological and reproductive cycles drive henipavirus seroprevalence in Eidolon helvum" Peel Lab, Griffith University "Model-guided paramyxovirus discovery in museum bat collections" Brook Lab, University of Chicago | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 1/28/202 1/19/202 9/5/202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Commour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research interactions Drummond, University of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research interactions Hausen of Panelle, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS Model-guided paramyxovirus discovery in museum bat collections" Holleley Lab, Australian National Wildlife Collection (CSIRO) Ecological and reproductive cycles drive henipavirus seroprevalence in Eidolon helvum" Peel Lab, Griffith University Model-guided paramyxovirus discovery in museum bat collections" Brook Lab, University of Chicago Recent and rapid ecogeographical rule reversals in Northern Treeshrews" | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 1/28/202 11/19/202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Commour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research interactions Drummond, University of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research interactions (and the provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS 'Model-guided paramyxovirus discovery in museum bat collections' Holleley Lab, Australian National Wildlife Collection (CSIRO) 'Ecological and reproductive cycles drive henipavirus seroprevalence in Eidolon helvum'' Peel Lab, Griffith University 'Model-guided paramyxovirus discovery in museum bat collections'' Brook Lab, University of Chicago 'Recent and rapid ecogeographical rule reversals in Northern Treeshrews'' Olson Lab, University of Alaska Fairbanks | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 1/28/202 11/19/202 9/5/202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research into Lewis Drummond, University of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research internative Handler, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS "Model-guided paramyxovirus discovery in museum bat collections" Holleley Lab, Australian National Wildlife Collection (CSIRO) "Ecological and reproductive cycles drive henipavirus seroprevalence in Eidolon helvum" Peel Lab, Griffith University "Model-guided paramyxovirus discovery in museum bat collections" Brook Lab, University of Chicago "Recent and rapid ecogeographical rule reversals in Northern Treeshrews" Olson Lab, University of Alaska Fairbanks "Viruses, variants, virulence: lessons from ecology and evolution" | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 1/28/202 1/19/202 9/5/202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research international property of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research international Handler, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS "Model-guided paramyxovirus discovery in museum bat collections" Holleley Lab, Australian National Wildlife Collection (CSIRO) "Ecological and reproductive cycles drive henipavirus seroprevalence in Eidolon helvum" Peel Lab, Griffith University "Model-guided paramyxovirus discovery in museum bat collections" Brook Lab, University of Chicago "Recent and rapid ecogeographical rule reversals in Northern Treeshrews" Olson Lab, University of Alaska Fairbanks "Viruses, variants, virulence: lessons from ecology and evolution" Philadelphia Department of Public Health | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 1/28/202 1/1/19/202 1/25/202 |
| Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Common Tour Guide and Collections Assistant, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the museum's collection Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. UNDERGRADUATE RESEARCH STUDENTS MENTORED Alice Patton, Princeton University (provided training in R-based mathematical modeling for research into Lewis Drummond, University of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses for research internated Handler, Yale University (provided training in R-based multivariate analyses for senior thesis) INVITED TALKS AND PANELS Model-guided paramyxovirus discovery in museum bat collections" Holleley Lab, Australian National Wildlife Collection (CSIRO) "Ecological and reproductive cycles drive henipavirus seroprevalence in Eidolon helvum" Peel Lab, Griffith University Model-guided paramyxovirus discovery in museum bat collections" Brook Lab, University of Chicago "Recent and rapid ecogeographical rule reversals in Northern Treeshrews" Olson Lab, University of Alaska Fairbanks "Viruses, variants, virulence: lessons from ecology and evolution" | nissioner. 2016 – 202 ns and research ernship) 202 2023 – 202 nship) 202 1/28/202 1/1/19/202 1/25/202 2/13/202 |

PROFESSIONAL SERVICE

Reviewer: Biological Conservation, Biological Journal of the Linnean Society, Health Science Reports, iScience, Journal of Mammalogy, Philippine Journal of Science, PLoS ONE, Proceedings of the Royal Society B, Scientific Reports

Member:

- IUCN Species Survival Commission Small Mammal Specialist Group (2024–)
- Journal of Mammalogy Instructions to Authors/Style Guide Committee (2024–)
- Viral Emergence Research Initiative (2024–)
- Cambridge Collections Connections Communities (CCC) Consortium (2025–)

Team Leader, Bat Pathogen Spillover Compendium, Johns Hopkins University

2023 – Present

• Work with a consortium of disease ecologists to review scientific papers on bat virus spillover for a publicly available, expert-curated database to be launched Spring 2025. Team lead for Bangladesh Nipah virus papers.

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

2022 - Present

- Validate and identify observations of Scandentia (treeshrews) in an open citizen science database.
- Founder and administrator of the Small Mammals of India microsite.

OTHER SKILLS AND EXPERIENCE

Museum work:

- Research internships: American Museum of Natural History (2014-2016, Herpetology); Smithsonian National Museum of Natural History (2018, Mammalogy); Yale Peabody Museum of Natural History (2018, Mammalogy)
- *Collection visits*: Smithsonian 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, 2024); 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:

- Queensland and New South Wales, Australia: Under-roost urine and fecal sampling of flying foxes for seasonal Hendra virus surveillance (November 2024).
- Chicago, USA: Mark-release-recapture urban ecology study of deer mice bacterial pathogens (September 2024).
- Southeast Alaska, USA: Collected hoary marmots and bumble bees from remote alpine regions for the University of Alaska Museum. Conducted orthopoxvirus surveillance in hoary marmot populations in collaboration with the Alaska State Department of Public Health and U.S. Centers for Disease Control (July 2022, July 2023).

Editorial work:

• *Editor-in-Chief*, The Scholar (*thescholar.online* and *Spotify*): Oversaw the production of the Gates Cambridge annual magazine, featuring articles, photos, videos, and podcasts by current students and alumni (2022–2023).

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

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

Laboratory: Cryogenic tissue subsampling, RNA extraction, RT-PCR, gel electrophoresis, Sanger sequencing

Professional affiliations:

- American Society of Mammalogists (2019–)
- British Ecological Society (2022–)