

## JACQUELINE GARNETT

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### EDUCATION

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- In progress*    **PhD**    **Biological Anthropology**, Washington University in St. Louis (WashU)  
Dissertation: *Investigating Dietary Ecology and Dental Evolvability in Primates*  
Advisor: Dr. D. Strait  
Committee: Dr. D. Adams, Dr. C. Prang, Dr. C. Sanz, Dr. E. Wroblewski
- 2022            **MA**    **Biological Anthropology**, WashU  
Advisor: Dr. D. Strait
- 2019            **BSc**    **Integrated Science (Biology)**, McMaster University, *summa cum laude*  
Thesis: *A 2-Dimensional Analysis of Pliopithecoid Dental Morphology*  
Advisors: Dr. D. Begun, Dr. C. Harvey  
Minor in Anthropology

### RESEARCH EXPERIENCE

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- 2020-present    **Doctoral Researcher, Evolutionary Morphology Lab.** Dept. of Anthropology, WashU  
Developed an automated photogrammetry protocol to create 1200+ high quality 3D models of primate specimens. Collected geometric morphometric data and used multivariate statistical analyses to assess patterns of morphological integration, modularity, and evolvability across a comparative sample of primates.
- 2018-2019      **Undergraduate Thesis**, School of Interdisciplinary Science, McMaster University and Dept. of Anthropology, University of Toronto  
Assessed shape variation and taxonomic affinity of Pliopithecoid lower occlusal morphology using morphometric data.
- 2018            **Research Assistant, Aquatic Behavioural Ecology Lab.** Dept. of Psychology, Neuroscience, and Behaviour, McMaster University  
Dissected 100+ round goby (*Neogobius melanostomus*) specimens for a population monitoring project and systematically surveyed 250+ articles to collect data on accessory gland presence in teleost fishes for use in a large-scale comparative phylogenetic study.
- 2018            **Intern, Human Origins Program**, Smithsonian National Museum of Natural History  
Reviewed 120+ articles to document hominin fossil discoveries between 1997-2018 for database. Collected information for webpage on *Homo naledi* to promote public education.
- 2017            **Research Assistant, Wetland and Landscape Ecology Lab.** Dept. of Biology, McMaster University  
Monitored snapping turtle (*Chelydra serpentina*) populations across fragmented marshland habitats to assess the impact of human disturbance. Led community science initiatives by training volunteers to conduct turtle nesting surveys.

## FELLOWSHIPS

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- 2025-2026 **Pivot 314 Fellowship**, WashU.
- Advised policy specialists on research findings and public communication strategies regarding a study linking environmental contamination to cancer incidence in St. Louis.
  - Synthesized evidence, analyzed data, and translated scientific information for public audiences and state legislators through factsheets and other resources.
- 2023-2024 **Graduate Fellowship in Educational Development**, Center for Teaching & Learning (CTL), WashU
- Developed and extended university-wide educational programming for graduate students, including the development of workshops for international students, writing blog posts to highlight excellence in pedagogical practices at WashU, and conducted a survey to evaluate graduate-level teaching training.

## EXTERNAL GRANTS, SCHOLARSHIPS, AND AWARDS

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- 2024 **Doctoral Dissertation Research Improvement Grant, National Science Foundation.** Investigating the relationship between diet and evolvability in the dentition of non-human primates. BCS-2419582 (\$21,591 USD).
- 2024 **Research Grant, Leakey Foundation.** Investigating the Relationship Between Dietary Ecology and Dental Evolvability in Primates. S202410513 (\$19,986 USD).
- 2020 **Canada Graduate Scholarships – Master’s Program, Social Sciences and Humanities Research Council.** Using Geometric Morphometrics to Assess Patterns of Character Integration Across Primate Crania (\$17,500 CAD).  
*Declined award to pursue PhD at WashU.*

## INTERNAL GRANTS, SCHOLARSHIPS, AND AWARDS

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2021-2025	<b>Conference Travel Awards</b> , Dept. of Anthropology, WashU	\$3,300 USD
2021-2024	<b>Summer Research Awards</b> , Dept. of Anthropology, WashU	\$3,000 USD
2023-2024	<b>Richard Smith Research Awards</b> , Dept. of Anthropology, WashU	\$5,500 USD
2024	<b>H. Kathleen Cook Graduate Student Prize</b> , Dept. of Anthropology, WashU	\$200 USD
2024	<b>1<sup>st</sup> Place, Social Sciences, Graduate Research Symposium</b> , WashU	\$250 USD
2023	<b>Newman Exploration Travel Fund</b> , WashU Libraries, WashU	\$6,700 USD
2023	<b>George R. Throop Endowment Award</b> , Dept. of Classics, WashU	\$600 USD
2022	<b>2<sup>nd</sup> Place, Arts &amp; Sciences, Graduate Research Symposium</b> , WashU	\$150 USD
2020	<b>Supplemental Training Award</b> , Dept. of Anthropology, WashU	\$300 USD
2019	<b>Student Opportunity Grant</b> , McMaster University Science Society	\$240 CAD
2019	<b>Global Experience Award</b> , McMaster University	\$1,000 CAD
2018	<b>Senate Scholarship</b> , McMaster University	\$800 CAD
2015	<b>Honour Award</b> , McMaster University	\$1,000 CAD

## MUSEUM EXPERIENCE

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- 2024-2025 American Museum of Natural History. New York City, NY. Visiting Researcher. Visiting collection to collect dissertation data on Atelidae and Cercopithecidae dental morphology via photogrammetric 3D scanning. Measured and photographed 950+ specimens. Oct 3-Dec 18, 2024; Jan 4-11, 2025.
- 2024 Smithsonian National Museum of Natural History. Washington, DC. Visiting Researcher. Visiting collection to collect dissertation data on Atelidae and Cercopithecidae dental morphology via photogrammetric 3D scanning. Measured and photographed 250+ specimens. Sep 3-Oct 2, 2024.
- 2023 Kansas University Biodiversity Institute and Natural History Museum. Lawrence, KS. Visiting Researcher. Visited collections for pilot study to develop photogrammetric protocol and conduct preliminary comparative morphometric analyses between *Ateles geoffroyi* and *Alouatta palliata*. Photographed 49 specimens. May 15-19, 2023.
- 2022 Peabody Museum of Archaeology and Ethnology. Cambridge, MA. Visiting Researcher. Visited collections for pilot research on dental trait variation and covariation in hominins and chimpanzees (*Pan troglodytes*). Photographed 300+ casts and specimens. Jun 6-10, 2022.
- 2020 Canadian Museum of Nature. Ottawa, Canada. Volunteer, Research and Collections Division (Library & Archives). Recorded metadata for collections database. Mar 2020.

## FIELD EXPERIENCE

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- 2019 **Field Assistant, Salitreña Cave Project.** University of Winnipeg, the National Museum of Belgrade and Belgrade University. Excavated, identified, and catalogued stone tool and skeletal material.
- 2019 **Field Assistant, Stelida Naxos Archaeological Project.** McMaster University. Excavated, identified, and catalogued stone tool and skeletal material. Assisted in site mapping and documentation, as well as flotation.

## SUPPLEMENTARY TRAINING

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- 2024 Introduction to 3D Digital Morphology and Morphometrics with Slicermorph Workshop at Evolution 2024. Montreal, QC. Jul 26, 2024.
- 2023 Introduction to Photogrammetry course by Transmitting Science. Instructors: Dr. V. Díez Díaz, Dr. H. Mallison. Virtual. Apr 18-28, 2023.
- 2021 Morphological Phylogenetics: Principles, Applications, and Techniques course by Transmitting Science. Instructors: Dr. T. Simões and Dr. O. Vernygora. Virtual. Feb 15-26, 2021.
- 2021 Introduction to Macroevolutionary Analyses Using Phylogenies course by Transmitting Science. Instructor: Dr. J. Cantalapiedra. Virtual. Jan 25-29, 2021.

## PRESENTATIONS

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### \*Mentored undergraduate students

- Pereira Ferzola, L.\*, **Garnett, J.**, Strait, D. (2025). Diet and Evolution in Central and South American Primates (Atelidae). *WashU Undergraduate Research Symposium*. Poster Presentation.
- Garnett, J.** (2025). Automating Photogrammetry Using Simple Tools. *Am. J. Phys. Anthropol.* S79: 186. Poster Presentation.
- Tilghman, K. & **Garnett, J.** (2024). Generative AI Teaching Activities: An Online Repository for Instructors. *The Humanities in the AI Future Symposium*, WashU. Oral presentation.
- Garnett, J.**, Insacco, G., Patania, I. (2024). Maximizing the Impact of Public Outreach: A Case Study in Sicilian Paleolithic Archaeology. *WashU Graduate Research Symposium*. Poster Presentation. **(1<sup>st</sup> place, Social Sciences)**
- Garnett, J.**, Insacco, G., Patania, I. (2024). Maximizing the Impact of Public Outreach: A Case Study in Sicilian Paleolithic Archaeology. *Paleoanthropology Society*. Poster Presentation.
- Garnett, J.**, Strait, D.S. (2022). Hypotheses of Dental Integration and their Impact on Hominin Cladistic Analyses. *WashU Graduate Research Symposium*. Poster Presentation. **(2<sup>nd</sup> place, College of Arts & Sciences)**
- Garnett, J.**, Strait, D.S. (2022). Hypotheses of Dental Integration and their Impact on Hominin Cladistic Analyses. *Am. J. Phys. Anthropol.* S73: 177. Poster Presentation.
- Garnett, J.**, Strait, D.S. (2021). The impact of dental integration on cladistic analyses of hominin phylogeny: a preliminary study. *Canadian Association for Biological Anthropology Meeting*. Poster Presentation.
- Holmes, A., **Garnett, J.**, & Begun, D. (2020). A morphometric analysis of Pliopithecoid maxillary molar cusp peripheralization. *Am. J. Phys. Anthropol.* S69: 123. Poster Presentation.
- Garnett, J.**, Holmes, A., Harvey, C., & Begun, D. (2019). A 2-D analysis of pliopithecoid dental morphology. *Synthesis Symposium*. Oral Presentation.
- Garnett, J.**, Holmes, A., & Begun, D. (2019). Linear analysis of pliopithecoid dental morphology. *American Association of Biological Anthropology Meeting*. Poster Presentation.
- Garnett, J.**, Holmes, A., & Begun, D. (2019). Linear analysis of pliopithecoid dental morphology. *McMaster Anthropology Symposium*. Oral Presentation.
- Garnett, J.**, Miller, J. & Balshine, S. (2018). A comparative phylogenetic study of accessory glands in teleost fishes. *Synthesis Symposium*. Oral Presentation.
- Garnett, J.**, Takahashi, M., & Harvey, C. (2017). The influence of r/K selection theory on invasion ecology. *Synthesis Symposium*. Poster Presentation.

## TEACHING EXPERIENCE

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### Teaching Assistantships

FL 2023	ANTH 100: Earth's Future: Causes & Consequences of Global Climate Change, WashU
SP 2023	ANTH 3283: Introduction to Global Health, WashU
FL 2022	ANTH 150A: Introduction to Human Evolution, WashU
SP 2022	ANTH 3621: The Anthropology of Human Birth, WashU
FL 2021	ANTH 3860: Sports, Health, and Society, WashU
YR 2018-19	ISCI 3A18: Integrated Science III – Science Literacy, McMaster University

## GUEST LECTURES

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- 2025 *Beyond the Academy: Science Communication for Engineers*. ENGR 5505: Publication Writing (co-taught with H. Kinzer)
- 2024 *Communicating Research Results with Posters*. Anthropology Undergraduate Honors Seminar (co-taught with E. Gomez-Gomez)
- 2022 *Hominin Phylogeny and Taxonomy*. ANTH 150: Introduction to Human Evolution

## INVITED TALKS AND PRESENTATIONS

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- 2025 *Science Communication and the New Age of Scientific Research*. Temple Anshe Shalom
- 2025 *Research in the Evolutionary Morphology Lab*. ANTH 3556: What Makes A Meal: Anthropological Explorations of Food Production, Consumption, and Performance
- 2025 *Applying for the Newman Exploration Travel Fund*. ANTH 5202: Professionalization for Anthropologists
- 2025 *External Grant Applications*. ANTH 5202: Professionalization for Anthropologists

## WORKSHOPS LED

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- 2025 *JarGONE: Communicating Complex Science with Clarity*, ProSPER Monthly Meeting
- 2024 *Teaching as an International Scholar*, CTL, WashU

## OPEN EDUCATIONAL RESOURCES

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**Garnett, J.** [Teaching Evolutionary Principles with AI Image Generators](#) (2024). *Generative AI Teaching Activities*. Included in WashU Scholarly Repository, Biology Commons, and Evolution Commons. 132 downloads since Apr 4, 2024.

## PROFESSIONAL DEVELOPMENT IN TEACHING AND PEDAGOGY

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- 2023 **Teaching with Artificial Intelligence** course by Auburn University.
- 2022-2023 **Exploring Practices in the Classroom (EPIC) Learning Community**, CTL, WashU Program exploring cross-disciplinary and evidence-based pedagogy.
- 2021-2023 **Professional Development in Teaching Program (Practitioner)**, CTL, WashU Professional development program developing teaching strategies and pedagogical research, with mentored experiences in teaching philosophy and practice.

## SCIENCE COMMUNICATION TRAINING

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- 2025 [ComSciConSciWri Workshop](#), Joint Meeting of the National Association of Science Writers and the Council for the Advancement of Science Writing. Nov 6-10, 2025.
- 2025 [Certificate in Communicating Science for Policy](#), National Science Policy Network
- 2025 [Catalyzing Advocacy in Science and Engineering Workshop](#), American Association for the Advancement of Science. Apr 6-9, 2025.
- 2023 [Certificate in Science Communication](#). Science Communication Online Programme, CIERA, Northwestern University
- 2022 **Why, How, and When: Introduction to Storytelling** course by National Geographic

## PUBLIC OUTREACH

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- 2022-present **Skype A Scientist**, Volunteer, Virtual  
Volunteer for organization that connects scientists to K12 classrooms to learn about science and research. Connected with 5 classrooms and over 50 students across the United States, delivering talks and interactive Q&A sessions with students.
- 2024-2025 **Letters to a Pre-Scientist**, Volunteer, Pen-pal  
Letters to a Pre-Scientist connects students to STEM professionals to broaden students' awareness of what STEM professionals look like and do at work to inspire students to explore futures in STEM.
- 2023-2025 **Early Occupation of Sicily Project**, Outreach Assistant, Augusta, Italy; St. Louis, MO  
Designed a series of three educational panels on paleontology, archaeology, and anthropology in collaboration with staff at Museo Civico Di Storia Naturale in Comiso, Italy. Designed an interactive library exhibit on archaeology and anthropology alongside staff at WashU's Olin Library.
- 2023, 2025 **University City STEAM Expo**, Volunteer, St. Louis, MO  
Led interactive activities related to paleoanthropology and primatology to engage with families during an outreach event for a local school district. 350+ attendees.
- 2025 **Port Discovery Children's Museum**, Volunteer, Baltimore, MD  
Engaged with museum visitors with activities related to primatology and anthropology. Outreach with AABA Education Committee.
- 2024 **Natural History Museum of Los Angeles County**, Volunteer. Los Angeles, CA  
Designed handout on plant and animal biodiversity for use during outreach with AABA Education Committee.
- 2024 **Cahokia Public Library Science Club**, Volunteer, St. Louis, MO  
Assisted with activities teaching chemistry to children aged 8-15. 12 attendees.
- 2023 **Discovery Museum**, Volunteer, Reno, NV  
Engaged with museum visitors with activities related to primatology and anthropology. Outreach with AABA Education Committee. 100+ attendees.
- 2022-2023 **Campus Y Safe Trick-or-Treat**, Volunteer, St. Louis, MO  
Led interactive activities related to paleoanthropology and primatology to engage engage with families during outreach event on WashU campus. 100+ attendees.
- 2022 **Taste of Science, St. Louis Chapter**, Volunteer, St. Louis, MO  
Volunteered with scientific outreach organization that connects the public with local scientists & researchers through community-based events, helping to organize public lectures on astronomy and primatology to public audiences. 30+ attendees.
- 2017 **McMaster Alumni Association Event**, Volunteer, Hamilton, Canada  
Presented ongoing research in the Dept. of Biology to a public audience, 10+ attendees.
- 2016 **Let's Talk Science**, Volunteer, Hamilton, Canada  
Led educational STEM activities to 25+ students in K12 classrooms in Hamilton, ON.

## PUBLIC WRITING & MULTIMEDIA

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**Garnett, J.** (2025). [Pandemic Prevention Starts Now: Three Tools to Fight the Next Health Threat](#). *Council for the Advancement of Science Writing New Horizons Newsroom*. ComSciCon-SciWri 2025.

**Garnett, J.** (2024). [How Instructors are Using a Digital Town Square to Build a Learning Community](#). *WashU CTL*.

**Garnett, J.** (2024). [Social Annotation Lets Students Learn in Their Own Way](#). *WashU CTL*.

**Garnett, J.** (2023). [Roots/Routes: A Thousand-Year-Old Story of Migration](#). *WashU Libraries*.

**Garnett, J.** (2022). [Sometimes Science is Sandbag Jenga](#). *Simple Beginnings Blog*.

**Garnett, J.** (2021). [The Cookbook of Life](#). *Simple Beginnings Blog*.

**Garnett, J.** (2021). [The Cookbook of Life](#). *Simple Beginnings Blog*.

Barker, B., **Garnett, J.**, Sitarz, U., Stewart, J., Takahashi, M. (2017). [Sulphites or Sulph-Yikes?](#) In *Terroir. An Integrated Wine Science Publication*. McMaster University Integrated Science Program.

**Garnett, J.** & Smith, J. (2017). [The History of Scientific Thought Surrounding Human Evolution](#). In *The History of the Earth Volume 7*. McMaster University Integrated Science Program.

## PROFESSIONAL AND INSTITUTIONAL SERVICE

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2022-present	Education Committee, American Association of Biological Anthropologists
2025	Pivot 314 Fellowship Information Session Invited Panelist, WashU
2025	Graduate Student Affairs Advisory Board, WashU
2024-2025	Graduate Curriculum Committee, Dept. of Anthropology, WashU
2024	Graduate Student Interview Team Representative, Center for Career Engagement, WashU
2023-2024	Public Relations Officer, Graduate Student and Postdoc Advisory Council, CTL, WashU
2023	Graduate Student Teaching Orientation Instructor, WashU
2023	Judge, Graduate Research Symposium, WashU
2022-2023	Member, Graduate Student and Postdoc Advisory Council, CTL, WashU
2022-2023	Peer Mentor, Dept. of Anthropology, WashU
2020-2021	Antiracist Initiatives Committee on Research Ethics, Dept. of Anthropology, WashU
2016-2019	Undergraduate Mentor, McMaster University
2017-2018	Integrated Science Society Representative, McMaster University

## EXTRAPROFESSIONAL ACTIVITIES

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2024-2025	<p><b>Director of Science Communication, ProSPER</b> (Promoting Science Policy, Education, and Research), WashU.</p> <ul style="list-style-type: none"> <li>Acted as editor for the ProSPER blog; published a submission on <a href="#">homelessness</a> and provided feedback on a submission on the history of nuclear waste contamination in St. Louis.</li> <li>Coordinated workshops with other on-campus organizations to help graduate students improve writing and presentation skills for both scientific and non-scientific audiences.</li> <li>Organized and facilitated a panel discussion on careers in science communication, as well as book club discussions on pop science books related to road ecology and indigenous science, wisdom, and botany.</li> </ul>
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## MEDIA COVERAGE

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Leakey Foundation Grantee Spotlight (2025). [How diet impacts primate evolution](#)

Association of Women in Science (AWIS) Magazine (2025). [How AWIS Members are Using AI](#)

The Ampersand (2024). [Garnett wins Leakey Foundation grant](#)

WashU Libraries (2023). [The 2023 Winners of the Newman Exploration Travel Awards](#)

## STUDENT MENTORSHIP

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### **Evolutionary Morphology Lab, Dept. of Anthropology, WashU**

Luana Pereira Ferzola

Sabrina Huang

Sofia Rosenzweig

## PROFESSIONAL MEMBERSHIPS

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American Association for the Advancement of Science

American Association of Biological Anthropologists

Association for Women in Science

National Science Policy Network

Society for the Study of Evolution