

Cristina M. Gildee, PhD

Pronouns: she/her

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Education

Ph.D., Biological Anthropology, 2025

University of Washington, Seattle, WA

Thesis: *Skeletal Adaptation: Life History Constraints and Implications for Aging Research*

Committee: Dr. Patricia Ann Kramer (chair), Dr. Melanie Martin, and Dr. Dan T.A. Eisenberg

M.A. Biological Anthropology, 2021

University of Washington, Seattle, WA

B.S. Biological Anthropology, 2019

Human Evolutionary Biology

Medical Anthropology & Global Health

University of Washington, Seattle, WA

Research Positions

Postdoctoral Scholar-Fellow (NIH/NIA T32 AG066574)

2025-present

Department of Anthropology, University of Washington

Principal Investigator: Dr. Patricia Ann Kramer

Pre-doctoral Research Associate (NIH/NIA T32 AG066574)

2022-2025

Department of Anthropology, University of Washington

Principal Investigator: Dr. Patricia Ann Kramer

Lead Graduate Research Assistant

(2022-2023)

Sleep and Homelessness Project, University of Washington

Principal Investigators: Dr. Horacio de la Iglesia, Dr. Melanie Martin, Dr. Zack Almquist

Funded by the University of Washington Population Health Initiative Tier 1 Pilot Research Grant

Graduate Research Assistant

(2021-2022)

Department of Orthopaedics and Sports Medicine, University of Washington

Principal Investigator: Dr. Patricia Ann Kramer

Funded by Jerome H. Debs II Endowed Chair Fellowship

Graduate Research Assistant

(2019-2021)

Primate Evolutionary Biomechanics Laboratory (PEBL), University of Washington

Principal Investigator: Dr. Patricia Ann Kramer

Funded in part by the Office of Graduate Student Equity & Excellence Fellowship

Undergraduate Research Assistant

(2018-2019)

Primate Evolutionary Biomechanics Laboratory (PEBL), University of Washington

Principal Investigator: Dr. Patricia Ann Kramer

Undergraduate Research Assistant

(2018-2019)

Harborview Foot and Ankle Clinic, University of Washington Medical Center

Principal Investigator: Dr. Patricia Ann Kramer

Supervisor: Kalyani Rajopadhye, P.T., M.H.S., O.C.S.

Publications

**indicates undergraduate mentee co-author*

Gildee, C.M., & Kramer, P.A. (*submitted*). Testing the limits: the impact of extreme functional hip width on the muscular demands of walking. *Plos One*

Gildee, C.M., & Kramer, P.A. (2025). Bone Mineral Density Variation Across Anatomical Regions: Insights From the National Health and Nutrition Examination Survey. *American Journal of Biological Anthropology*, 187(4), e70103. doi.org/10.1002/ajpa.70103

Gildee, C.M., & Kramer, P.A. (2025). Association between parity and bone mineral density in the National Health and Nutrition Examination Survey. *American Journal of Human Biology*, 37(1), e70030. doi.org/10.1002/ajhb.70030

Rice, A., Casiraghi, L. P., **Gildee, C.**, Almquist, Z. W., Hagopian, A., Martin, M. A., & de la Iglesia, H. O. (2025). Sleep in People Experiencing Homelessness Under Different Conditions and Seasons. *bioRxiv*, 2025-01. doi.org/10.1101/2025.01.23.634551

Gildee, C.M., Tennyson, R.L., Eisenberg, D.T.A. (*in preparation*). Telomere Length and Bone Remodeling: Implications for Aging Research.

Hinton, H.M.*, **Gildee, C.M.**, Martin, M.A. (*in preparation*). “Fecal neopterin levels during infancy and their association with growth.”

Tennyson, R.L., Nanda, A.N.*, **Gildee, C.M.**, Rainsberger, K.*, Eisenberg, D.T.A. (*in preparation*). “Physical activity moderates the association between childhood psychosocial stress and adult telomere length in NCAA student-athletes and non-athlete college students.” (*Preregistration and results*: <https://osf.io/s2cuji/>)

Teaching Experience

Lecturer – BIO A 469: Human Skeletal Adaptation: Implications for Health & Aging
University of Washington, Seattle (Autumn 2025)

Teaching Associate – BIOL 310: Survey of Human Anatomy
Instructor: Dr. Casey Self
University of Washington, Seattle (Autumn 2022)
Designed and facilitated weekly lab-based teaching sessions; developed lab assignments and exam questions for an undergraduate-level course. ~40 students.

Teaching Assistant – BIO A 201: Principles of Biological Anthropology
Instructor: Dr. Andrea Duncan
University of Washington, Seattle (Autumn 2021)
Responsibilities: Designed and facilitated weekly lab-based teaching sessions; developed lab assignments and exam questions for an undergraduate-level course. ~100 students.

Teaching Assistant – BIO A 355/BIOL 385: Evolutionary Medicine and Public Health
Instructor: Dr. Dan T.A. Eisenberg
University of Washington, Seattle (Spring 2021)
Responsibilities: Facilitated weekly reading group discussion sessions online; assisted in developing exam questions for an undergraduate-level course. ~100 students.

Teaching Assistant – BIO A 344: Applied Biomechanics of Human Movement
Instructor: Dr. Patricia Ann Kramer
University of Washington, Seattle (Winter 2021)
Responsibilities: Facilitated weekly lab-based teaching sessions online; reviewed lab assignments and exam questions for an undergraduate-level course. ~30 students.

Teaching Assistant – BIO A 454/455: Laboratory Methods in Hormones and Behavior
Instructor: Dr. Melanie Martin
University of Washington, Seattle (Autumn 2020)
Responsibilities: Facilitated weekly lab-based teaching sessions online; reviewed lab assignments and exam questions for an undergraduate-level course. ~30 students.

Research Presentations

* = undergraduate mentee co-author

- **Gildee, C.M., Kramer, P.A.** (2025). "Racialized group and lifestyle differences predict fracture risk similarly to bone mineral density." Poster presentation at the Annual Meeting of the American Association of Biological Anthropologists, Baltimore, MD.
- **Gildee, C.M., Kramer, P.A.** (2024). "Association between parity and bone mineral density in NHANES." Flash Talk at the Annual Meeting of the Human Biology Association, Los Angeles, CA.

- **Gildee, C.M.,** Kramer, P.A. (2024). "Differences in regional bone mineral density with age in NHANES." Podium Presentation at the Annual Meeting of the American Association of Biological Anthropologists, Los Angeles, CA.
- *Hinton, H., **Gildee, C.M.,** Rice, A., Almquist, Z., Hagopian, A., de la Iglesia, H., Martin, M.A. (2024). "Health markers among people experiencing homelessness." Poster presentation at the Annual Meeting of the American Association of Biological Anthropologists, Los Angeles, CA.
- **Gildee, C.M.,** Martin, M.A., Tennyson, R.L., Brindle, E., Pan, T.D. (2023). "Does pre-analytical variation in dried blood spot collection impact C-reactive protein measurement?" Poster presentation at the Human Biology Association Annual Meeting, Reno, NV.
- *Hinton, H., **Gildee, C.M.,** Garcia, A., Trumble, B., Gurven, M., Martin, M.A. (2023). "Tsimane fecal neopterin levels decline during infancy." Poster presentation at the Annual Meeting of the American Association of Biological Anthropologists, Reno, NV.
- **Gildee, C.M.,** Hammerberg, A.G., Kramer, P.A. (2022). "Ground reaction force and contact time improve energetic expenditure prediction." Poster presentation at the Annual Meeting of the American Association of Biological Anthropologists, Denver, CO.
- **Gildee, C.M.,** Ochoa, M., Zaehring, H., Feuerriegel, E.M., Kramer, P.A. (2020). "Ankle kinematics during bipedal incline walking with burden." Accepted presentation at the Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, CA (Meeting canceled).
- **Gildee, C.M.,** Feuerriegel, E.M., Rajopadhye, K., Kramer, P.A. (2019). "Reliability of goniometer measurements to determine ankle dorsiflexion: Implications for assessment of gastrocnemius equinus." Poster presentation at the Annual American Association of Physical Anthropologists Meeting, Cleveland, OH.

Fellowships

Pre-Doctoral Traineeship – NIH/NIA T32 AG066574 (2023-2025)

Biological Mechanisms of Healthy Aging Program, Department of Pathology, University of Washington

Pre-Doctoral Training Fellowship – Jerome H. Debs II Endowed Chair in Orthopaedic Traumatology (2023-2025)

Department of Orthopaedics, University of Washington

Graduate Student Equity and Excellence (GSEE) Fellowship (2019-2020)

University of Washington

Research Awards

Pre-dissertation Pilot Research Award (2021-2022) - \$3,428

“A Variable Terrain Treadmill: Development and Validation”

Department of Anthropology, University of Washington

Student Technology Award (2021) - \$9,144

“Primate Evolutionary Biomechanics Lab Computing Refresh”

University of Washington, Seattle

Student Technology Award (2019) - \$29,044

“Updating and Expanding 3D Scanning and Printing Capabilities”

University of Washington, Seattle

Honors and Awards

College of Arts and Sciences Dean’s Graduate Medal (2025)

University of Washington

Graduate and Professional Student Senate Travel Award (2023, 2022)

University of Washington

Provost’s Ph.D. Fellowship Grant (2020-2021)

University of Washington

Eck Student Support Grant (2019)

Department of Anthropology, University of Washington

Committee on Diversity Undergraduate Research Symposium Travel Award (2019)

American Association of Biological Anthropologists

Academic Excellence Award (2018-19)

University of Washington, Seattle

Mentorship

Hannah M. Hinton

Graduate Student, Washington University St. Louis, Department of Biology

Fellow, National Science Foundation Graduate Research Fellowship Program (2025)

B.S., Anthropology – Human Evolutionary Biology, University of Washington (2023)

Izzy Wiebe

WaNPRC, Research Technician I

B.S., Anthropology – Human Evolutionary Biology, University of Washington (2023)

Service Work

Graduate Student Representative (2024-2025)

Department of Anthropology, University of Washington

Biological Anthropology Sub-Discipline Student Representative

Biological Anthropology Tenure-Track Faculty Search Committee (2023-2024)

Department of Anthropology, University of Washington

Graduate Student Member

The Sausage of Science Podcast (2022-Present)

Human Biology Association

Co-producer and Public Relations Committee Junior Service Fellow

Interdisciplinary Directives for Excellence in Anthropological Studies (IDEAS) Committee (2021-Present)

Formerly the “Diversity Committee”

Department of Anthropology, University of Washington

Graduate Student Member; Biological Anthropology Representative

Transfer Student Event (September 2021)

University of Washington

Graduate Student Guide

Human Biology of Stress and Sports Research Team (HBSS) (2020-Present)

Graduate Student Mentor

Harborview Foot and Ankle Clinic, University of Washington Medical Center (2018)

Volunteer Researcher

Supervisor/Trainer: Kalyani Rajopadhye, P.T., M.H.S., O.C.S.

Languages

English (Fluent)

Spanish (Non-fluent)

German (Non-fluent)

Memberships

- American Association of Biological Anthropologists (AABA)
- Human Biology Association (HBA)
- American Anthropological Association (AAA)
- American Aging Association (AGE)
- Association for Feminist Anthropology
- Association of Black Anthropologists
- Associated Students of the University of Washington (ASUW)
- International Union, United Automobile, Aerospace and Agricultural Implement Workers of America (UAW Local 4121)