

Cristina M. Gildee, Ph.D.

Pronouns: she/her

Department of Anthropology

University of Washington

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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 (*peer reviewed*)

**indicates undergraduate or graduate mentee*

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

Publications (*in preparation*)

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

Harward, A.*, **Gildee, C.M.**, Kramer, P.A. (in preparation). Pelvic tilt effects on hip forces in musculoskeletal modeling.

Hinton, H.M.*, **Gildee, C.M.**, Garcia, A. Trumble, B.C., Gurven, 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/s2cui/>)

Teaching Experience

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

Adjunct Lecturer – Anth& 100: Survey of Anthropology
Green River College, Auburn, Washington (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.**, Harward, A.*, Kramer, P.A. (*submitted*) "Pelvic tilt effects on hip forces in musculoskeletal modeling." Poster presentation at the Annual Meeting of the American Association of Biological Anthropologists, Denver, CO.
- Kramer, P.A., **Gildee, C.M.**, (*submitted*) "Testing the limits: the impact of extreme functional hip width on the muscular demands of walking." Poster presentation at the Annual Meeting of the American Association of Biological Anthropologists, Denver, CO.
- **Gildee, C.M.** (2025) "Anthropological Insights into Skeletal Aging: Leveraging Human Diversity for Geroscience" Podium presentation at the Annual George M. Martin Memorial Geroscience Symposium, Nathan Shock Center, University of Washington, Seattle, WA.
- **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.

Prior 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

Abigail Harward

University of Washington, Department of Anthropology

M.A., Biological Anthropology, University of Washington (2024)

Fellow – National Science Foundation Graduate Research Fellowship Program (awarded, 2022)

B.S., Anthropology – Human Evolutionary Biology, University of Washington (2020)
A.A. Green River College

Hannah M. Hinton

Washington University St. Louis, Department of Biology Graduate Program (*offered*)
Fellow – National Science Foundation Graduate Research Fellowship Program (awarded, 2025)
B.S., Anthropology – Human Evolutionary Biology, University of Washington (2023)

Isabel Wiebe

Washington National Primate Research Center – 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, Co-Host, and Public Relations Committee 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 (2020-Present)

Postdoctoral 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
- International Union, United Automobile, Aerospace and Agricultural Implement Workers of America (UAW Local 4121)