

# Cristina M. Gildee, Ph.D.

*Pronouns: she/her*

Department of Anthropology

University of Washington

Seattle, WA 98195

[cgildee@uw.edu](mailto:cgildee@uw.edu)

---

## 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**

Biological Mechanisms of Healthy Aging Program (NIH/NIA T32 AG066574)

(2025-present)

Department of Anthropology, University of Washington

Principal Investigator: Dr. Patricia Ann Kramer

### **Pre-Doctoral Research Associate**

Biological Mechanisms of Healthy Aging Program (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)**

---

**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](https://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](https://doi.org/10.1002/ajhb.70030)**

---

## Publications

---

\*indicates undergraduate or graduate mentee

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

## Manuscripts

---

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

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

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

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. *American Journal of Human Biology*.

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/s2cuj/>)

## Teaching Experience

---

**Instructor of Record** – ANTH 205: Biological Anthropology  
Green River College, Auburn, Washington (Winter, 2026)

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

**Instructor of Record** – ANTH 100: Survey of Anthropology  
Green River College, Auburn, Washington (Winter, 2026; 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 centered around human cadavers; developed lab assignments and exam questions for the 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 and graded lab assignments and exam questions for the 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, graded all assignments and exams for the 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 and graded lab assignments and exam questions for the 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 and graded all lab assignments and exam questions for the course. ~30 students.

---

## Research Presentations

\* = undergraduate mentee co-author

- **Gildee, C.M.**, Harward, A.\*, Kramer, P.A. (2025). “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.** (2025). "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" Invited lecture for ANTH534: Current Issues in Medical Anthropology & Global Health, University of Washington, Seattle, WA.
- **Gildee, C.M.** (2025). "Anthropological Insights into Skeletal Aging: Leveraging Human Diversity for Geroscience" Invited 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., Zaehringer, 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 (2023-2025)**

Biological Mechanisms of Healthy Aging Program (NIH/NIA T32 AG066574)  
Department of Pathology, University of Washington

### **Pre-Doctoral Training Fellowship (2023-2025)**

Jerome H. Debs II Endowed Chair in Orthopaedic Traumatology  
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"  
Student Technology Fund Grant, University of Washington

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

"Updating and Expanding 3D Scanning and Printing Capabilities"  
Student Technology Fund Grant, University of Washington

---

## **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) - \$10,000**

University of Washington

**Eck Student Support Grant (2019) - \$5,000**

Department of Anthropology, University of Washington

**Committee on Diversity Undergraduate Research Symposium Travel Award (2019) - \$500**

American Association of Biological Anthropologists

**Academic Excellence Award (2018-19) - \$8,000**

University of Washington

---

**Mentorship**

**Elena-Genevieve Harris**

University of Washington, Department of Anthropology

B.A., Anthropology – Medical Anthropology & Global Health, University of Washington, Class of 2025

**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

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

Postdoctoral Member; Biological Anthropology Representative (2025-present)

Graduate Student Member; Biological Anthropology Representative (2021-2025)

**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

---

**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)