

ELIJAH WATSON

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Professional Summary

I am a population health scientist trained in biological anthropology, social epidemiology, and demography. My research integrates social and biological theory with population-based cohort data, biomarkers, and quantitative methods for descriptive and causal inference to elucidate how social inequities and environmental exposures shape health and aging across the life course.

Education

Ph.D. Biological Anthropology, Northwestern University, Evanston, IL *Expected June 2026*
Committee: Christopher Kuzawa (advisor), Sera Young, Thomas McDade, Lucia Petito
M.P.H. Epidemiology, Northwestern Feinberg School of Medicine, Chicago, IL *Exp. June 2026*
M.A. Anthropology, Northwestern University, Evanston, IL *June 2023*
B.A. Anthropology, UNC Chapel Hill, Chapel Hill, NC *June 2019*

Northwestern University Certificates

Society Biology and Health Certificate *Expected June 2026*
Management for PhDs, Northwestern Kellogg School of Management *August 2025*

- Highly selective, intensive certificate program for STEM PhD students surveying core MBA content in leadership, marketing, finance, accounting, strategic decision making, and negotiation

Awards

Grants

- F31 Ruth L. Kirschstein Predoctoral Individual National Research Service Award (NRSA) | (\$88,110)** *2024-2026*
 - National Institutes of Health / National Institute on Aging
 - F31AG084273 ([Link](#) to NIH Reporter)
 - Title: “*Socioeconomic status across the life course and epigenetic age acceleration in adulthood: Evidence from two generations of a Filipino birth cohort study*”
- National Science Foundation Graduate Research Fellow (GRFP) | \$138,000** *2020*
- UNC Frances L. Phillips Travel Scholarship:** Awarded to support travel to the Galapagos Islands and South Africa for fieldwork and experiential learning to inform future research on food and water insecurity | (\$9,500) *2019*
- UNC Undergraduate Research Consultant Team Grant | (\$10,000)** *2019*
 - Pilot study on food and water security on Isabela Island, Galápagos (*collaboration with Universidad San Francisco de Quito & UNC Galápagos Science Center*)
- UNC Gillian T. Cell Senior Thesis Research Grant** *2018*
- UNC Summer Internship Grant** *2018*

Scholarships and Awards

- **E.E. Hunt, Jr. Student Award for Outstanding Podium Presentation**, Human Biology Association 2024
- **Tuition Scholarship**, Short course on causal inference, Department of Epidemiology, Harvard T. H. Chan School of Public Health 2022
- **Travel Award**, Interdisciplinary Association of Population Health Scientists 2022
- **Society, Biology, and Health Cluster Fellow**, Northwestern University 2021
- **Honigmann Undergraduate Thesis Award**, UNC Dept. of Anthropology 2019
- **Travel Award, Harvard T. H. Chan School of Public Health, Center for Communicable Disease Dynamics** | Conference to Increase Diversity in Mathematical Modeling & Public Health 2019

Publications

Peer-reviewed Manuscripts

- **Elijah Watson**, Delaney Glass, and Lucia Petito. (2025). Toward New Directions in Human Biology: A Roadmap for Anthropological Causal Inference with Observational Data. *American Journal of Human Biology*. ([link](#))
- Chihua Li, Rebecca Stebbins, Grace Noppert, Constanza Carney, Chunyu Liu, Ashley Sapp, **Elijah Watson**, and Allison Aiello. (2024). Peripheral Immune Function and Alzheimer's Disease: A Living Systematic Review and Critical Appraisal. *Molecular Psychiatry*. ([link](#))
- Margaret Butler, Britney Smart, **Elijah Watson**, Shreya Narla, and Lauren Keenan-Devlin. (2023). Breastfeeding durations differ at the intersection of race/ethnicity and educational attainment in a nationally representative sample from the US. *Journal of Human Lactation*. ([link](#))
- Melissa Manus, **Elijah Watson**., Sahana Kuthyar, Delia Carba, Nikola Belarmino, Thomas McDade, Christopher Kuzawa, and Katherine Amato. (2023). Prenatal household size and composition are associated with infant fecal bacterial diversity in Cebu, Philippines. *American Journal of Biological Anthropology*. ([link](#))
- Amanda Thompson, Khristopher Nicholas, **Elijah Watson**, Enrique Terán, and Margaret Bentley. (2019). Water, food, and the dual burden of disease in Galápagos, Ecuador. *American Journal of Human Biology*. ([link](#))

Manuscripts under Review

- Thomas W. McDade, Sofia Carrera, Calen P. Ryan, **Elijah Watson**, Linda S. Adair, Nanette R. Lee, Delia B. Carba, Julie L. MacIsaac, Kristy Dever, Michael S. Kobor, Christopher W. Kuzawa. "Chronic inflammation and multiple dimensions of aging among women in the Philippines." Submitted to *Nature Aging*.
- Delaney J. Glass, Jeffrey G. Snodgrass, Choeeta Chakrabarti, Kateryna Maltseva, Katya Xinyi Zhao, **Elijah Watson**, François Dengah, and Seth Sagstetter "Counterfactual Logic

Improves Ethnographic Explanation: Bridging Anthropological and Interdisciplinary Perspectives on Causality.” Submitted to *American Anthropologist*.

Manuscripts in Preparation

- **Elijah Watson**, Thomas McDade, Lucia Petito, Michael Kobor, Calen Ryan, Nanette Lee, Linda Adair, and Christopher Kuzawa. “Prenatal Stress Signals, Postnatal Nutritional Hardship, and Midlife Biological Aging: Quasi-Experimental Evidence from the 1983–86 Philippine Political–Economic Crisis”
 - Dissertation Job Market Paper (*Full draft available upon request*)
- **Elijah Watson**, Thomas McDade, Michael Kobor, Calen Ryan, Nanette Lee, Linda Adair, and Christopher Kuzawa. “Epigenetic Age Acceleration Predicts Functional Aging, Biomarkers, and Socioeconomic Status Among Middle-Aged Filipino Women: A Longitudinal Validation of Epigenetic Clocks in a Non-Western Population”
 - Dissertation Chapter (*Full draft available upon request*)
- **Elijah Watson**, Thomas McDade, Lucia Petito, Michael Kobor, Calen Ryan, Nanette Lee, Linda Adair, and Christopher Kuzawa. “Childhood Wealth, Educational Attainment, and Midlife Epigenetic Aging: Evidence from Four Decades of a Philippine Birth Cohort Study”
 - Dissertation Chapter (*in progress*)
- **EJ Watson**. “Effects of schooling on the risk of intimate partner violence among women in the Philippines: Quasi-experimental evidence from the Demographic & Health Surveys and an educational policy reform.”

Presentations and Talks

Upcoming Talks

- **EJ Watson**, Thomas McDade, Lucia Petito, Michael Kobor, Calen Ryan, Nanette Lee, Linda Adair, and Christopher Kuzawa. “Prenatal Stress Signals, Postnatal Nutritional Hardship, and Midlife Biological Aging: Quasi-Experimental Evidence from the 1983–86 Philippine Political–Economic Crisis”
 - Oral Presentation, UCLA/USC Workshop on Determinants of Adult Mortality, Morbidity, and Healthy Aging in LMICs, March 2026
 - Invited colloquium speaker, Department of Data and Decision Sciences, Emory University, April 2026
 - Oral Presentation, Population Association of America conference, May 2026

Oral Presentations

- Invited lecture, *Montgomery Lecture Series*, Center for Medical Humanities and Bioethics, Northwestern University Feinberg School of Medicine (Jan 2026): “Embodied truths and the stories bodies tell: Prenatal exposure to the 1983 Filipino economic crisis and epigenetic age acceleration four decades later.” 2025

- **EJ Watson**, Thomas McDade, Lucia Petito, Michael Kobor, Calen Ryan, Nanette Lee, Linda Adair, and Christopher Kuzawa. “Timing of pre- and postnatal exposure to the 1983 Filipino economic crisis and epigenetic age acceleration four decades later: Evidence from the Cebu Longitudinal Health and Nutrition Survey.” Flash Talk at the 2025 Formal Demography Workshop, University of California, Berkeley. 2025
- **EJ Watson**, Delaney Glass, Lucia Petito. “Toward New Directions in Human Biology: A Roadmap for Causal Inference with Observational Data.” Human Biology Association. Baltimore, MD. 2025
- **EJ Watson**. “It’s Biomedical Standard Time somewhere: Epigenetic clocks as a causal mechanism linking social and environmental exposures to health.” EpiCause 2024: Causality in Epidemiology’ meeting at the Institute of Philosophy and Scientific Method. Johannes Kepler University of Linz, Austria. 2024
- **EJ Watson**, TW McDade, CP Ryan, NR Lee, JL MacIsaac, K Dever, P Atashzay, MS Kobor, CW Kuzawa. “Evaluating the convergent and predictive validity of epigenetic age acceleration measured from common epigenetic clocks in Cebu, Philippines.” Human Biology Association. Los Angeles, CA. (Awarded the E.E. Hunt, Jr. Student Award for Outstanding Podium Presentation). 2024

Selected Poster Presentations

- **EJ Watson**. “Effects of schooling on the risk of intimate partner violence among women in the Philippines: Quasi-experimental evidence from the Demographic & Health Surveys and an educational policy reform.” Interdisciplinary Association for Population Health Sciences. Pittsburgh, PA. 2025
- **Watson, EJ**, LC Petito, TW McDade, SL Young, CW Kuzawa. “Intergenerational educational attainment and mental health in young adulthood among a Filipino birth cohort.” Society for Epidemiologic Research. Portland, OR. 2023
- **Watson, EJ**, AK Johnson, C. Scott Smith, M Newcomb, R Saber, JM Schrock, DT Ryan, AR Demonbreun, B Mustanski, R D’Aquila, EM McNally, TW McDade. “Neighborhood racialized economic segregation and SARS-CoV-2 seropositivity among a Chicago adult community-based sample.” Society for Epidemiologic Research. Chicago, IL. 2022

Lectures, Talks, and Panels

- “Causal Inference with Observational Data,” Guest lecture, University of Toronto, Department of Anthropology. *October 2025*.
- “Statistical versus causal inference.” (Remote). Invited panelist for a round table discussion hosted by the Frontiers in Social Evolution (FINE) Seminar. 2022
- “A primer on using directed acyclic graphs for causal inference.” Workshop presentation for Northwestern’s Evolutionary & Ecological Approaches to Health research group meeting. 2022

Other Research Experience

Field Researcher

- **UNC Center for Galápagos Studies & Galápagos Science Center** Isabela Island, Galapagos 2019

Internships

- **Carolina Population Center**. UNC Chapel Hill 2018
- **Scalabrini Centre of Cape Town, South Africa** 2017
 - Refugee/Migrant Employment Access Programme Intern

Research Assistantships

- **UNC Gillings School of Global Public Health, Department of Epidemiology** 2018

Teaching Experience

Instructor of Record, Northwestern University, Evanston, IL 2025 & 2026

- **“Climate Change and Sustainability in Health Care”** – Winter 2025 & 2026
 - Elective seminar for (10) first year medical students at the Northwestern Feinberg School of Medicine
 - Coordinated and facilitated seminars and lecturer for 2 out of 5 sessions

Teaching Assistant, Northwestern University Evanston, IL

- **“Intermediate Epidemiology”** | BIostat 401 2023
 - Taught by Dr. Amy Johnson and Dr. Andrew Naidech (MPH/MS course)
 - Lectured on “Causal Inference with Directed Acyclic Graphs”
- **“Introduction to Epidemiology”** | BIostat 301 2023
 - Taught by Peter Serrano, MPH (MPH/MS course)
- **“The Social Determinants of Health”** | Global Health 222 2023
 - Taught by Dr. Charlayne Mitchell (undergraduate course)
- **“Introduction to Global Health”** | Public Health/Global Health 390 2022
 - Taught by Dr. Bill Leonard (combined undergraduate/MPH course)

Workshop Instructor, Northwestern University Evanston, IL

- **R for Social Data Science** 2024
 - Designed and led a 5-session workshop (4–5 attendees weekly) on reproducible data science (R, tidyverse, RStudio, Quarto, GitHub).

Mentorship

- **Silas Colombara, Undergraduate Research Mentee** 2023 – Present
 - “Childhood Household Wealth Trajectories and Adult Mental Health in the Cebu Longitudinal Health and Nutrition Survey”

Trainings

Workshops and Short Courses

- **Berkeley Workshop in Formal Demography**, University of California, Berkeley 2025
- **Causal Inference with Time-Varying Exposures**, Society for Epidemiologic Research workshop 2023
- **Introduction to Parametric and Semi-parametric Estimators for Causal Inference**, Society for Epidemiologic Research workshop 2023
- **Writing Reproducible Research in R with Quarto**, Society for Epidemiologic Research workshop 2023
- **Key Topics in Causal Inference**, CAUSALab, Department of Epidemiology, Harvard T. H. Chan School of Public Health 2022
- **Mixtape Sessions: Causal Inference**, taught by Dr. Scott Cunningham 2022

Op-eds

- “Opinion: Climate studies, National Institutes of Health Under Attack” [Asheville Citizen Times](#) 2025

Service and Outreach

- **Boys & Girls Clubs of Chicago / Northwestern Science in Society Program**
 - Science Club Mentor, Pedersen-McCormick Boys & Girls Club 2023 – 2024
- **Northwestern Feinberg School of Medicine, Program in Public Health**
 - Curriculum Committee 2025 – Present
- **Interdisciplinary Association for Population Health Science**
 - Student Committee, Webinar Co-Chair 2023 – Present

Professional Society Memberships

- Human Biology Association
- Interdisciplinary Association for Population Health Science
- Population Association of America
- Society for Epidemiologic Research

Skills

- Statistical analysis using R (advanced), Stata (proficient), SAS (basic)
- Quarto/RMarkdown
- Git/GitHub
- Causal inference with observational data
 - Biostatistical approaches (g-computation, IPTW, causal mediation analysis)
 - Econometric approaches (instrumental variables, natural experiments)
 - Machine learning approaches (Targeted Maximum Likelihood Estimation)