
ELLEN GRAHAM

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Department of Biostatistics, University of Washington

Hans Rosling Center for Population Health, 3980 15th Avenue NE, Box 351617, Seattle, WA 98195-1617

EDUCATION

University of Washington, Seattle, WA

Sept. 2021 - Present

Ph.D. Candidate, Biostatistics

Advisor: Andrea Rotnitzky, Ph.D.

Macalester College, Saint Paul, MN

Sept. 2017 - May 2021

B.A., Applied Mathematics and Statistics

Summa cum laude, Highest Honors

RESEARCH POSITIONS

Intern and Consultant

June 2025 - Present

Machine Learning and Inference Research, Netflix

Los Gatos, CA

Supervisors: Nathan Kallus, Ph.D., Yonatan Gur, Ph.D.

Developed and implemented modern debiased machine learning techniques to improve the estimation and inference of causal effects related to pricing strategy.

Research Assistant

Sept. 2021 - June 2023

Seattle Children's Hospital

Seattle, WA

Supervisor: Amalia Magaret, Ph.D.

Analyzed the impact of measurement error in clinical outcomes for trials of cystic fibrosis therapies.

Data Science Consultant

May 2021 - Sept. 2021

R for the Rest of Us

Seattle, WA

Provided data science consulting to local governments and NGOs.

Research Assistant

May 2020 - Aug. 2020

Biocomplexity Institute, University of Virginia

Arlington, VA

Supervisor: Gizem Korkmaz, Ph.D.

Collaborated with local governments to develop data-driven solutions to community challenges.

Research Assistant

May 2019 - Aug. 2019

Macalester College

Saint Paul, MN

Supervisor: Brianna Heggseth, Ph.D.

Researched clustering methods for longitudinal data with categorical outcomes, focusing on mobile health and cancer care applications.

TEACHING EXPERIENCE

Tutor

University of Washington

Seattle, WA

Advanced Theory of Statistical Inference I, II, and III

Sept. 2024 - June 2025

Statistical Inference for Biometry I, II

Sept. 2024 - Mar. 2025

Teaching Assistant

University of Washington

Seattle, WA

Advanced Theory of Statistical Inference III	Mar. 2024 - June 2024
Advanced Regression Methods for Dependent Data	Jan. 2024 - Mar. 2024
Introductory Laboratory Based Biostatistics	June 2023 - Aug. 2023

Research Mentor

University of Washington	Seattle, WA
Directed Reading Program: Introduction to Longitudinal Data Analysis	Sept. 2023 - Dec. 2023
Directed Reading Program: Practice and Philosophy of Data Cleaning	Sept. 2022 - Dec. 2022

Teaching Assistant

Macalester College	Saint Paul, MN
Advanced Data Science	Jan. 2021 - May 2021
Linear Algebra	Sept. 2020 - Dec. 2020
Computational Linear Algebra	Jan. 2020 - May 2020
Introduction to Statistical Modeling	Jan. 2019 - May 2019
Introduction to Data Science	Sept. 2018 - Dec. 2018

AWARDS, HONORS, FELLOWSHIPS

University of Washington

NSF Graduate Research Fellowship	Sept. 2023 - Sept. 2026
Gertrude M. Cox Scholarship	April 2022

Macalester College

Phi Beta Kappa	May 2021
Kaplan Award for Achievement in Data Science	May 2021
Clare Boothe Luce Scholar	May 2019 - Aug. 2019
Dewitt Wallace Distinguished Scholarship	Sept. 2017 - May 2021

PROFESSIONAL AND UNIVERSITY SERVICE

University of Washington, Department of Biostatistics

UAW 4121 Executive Board	May. 2025 - Present
Chair Search Committee	June 2024 - Mar. 2025
Member, Biostatistics Activity and Events Squad (BAES)	Sept. 2021 - March. 2025
UAW 4121 Head Steward	Oct. 2024 - May. 2025
UAW 4121 Department Steward	Sept. 2023 - Sept. 2024
Coordinator, Statisticians and Biostatisticians of Underrepresented Genders (SBUG)	Sept. 2023 - Aug. 2024
Member, Equity, Diversity, and Inclusion (EDI) Committee	Sept. 2021 - Dec. 2022

Journal Refereeing

Journal of the Royal Statistical Society: Series B
Biometrics
Observational Studies
IEEE Transactions on Information Theory

BIBLIOGRAPHY

Refereed Journal Publications

1. **Graham, E.**, Carone, M., & Rotnitzky, A.. Towards a Unified Theory for Semiparametric Data Fusion with Individual-Level Data. *Annals of Statistics*, in press
<https://arxiv.org/abs/2409.09973>

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2. **Graham, E.**, Heltshe, S. L., & Magaret, A. S. (2024). Baseline-dependent improvement in CF studies, plausibility of bias. *Contemporary Clinical Trials Communications*, 42, 101378.
<https://doi.org/10.1016/j.conctc.2024.101378>
 3. Magaret, A. S., **Graham, E.**, Caverly, L. J., Cromwell, E. A., Paynter, A., Rosenfeld, M., Thornton, C. S., & Goss, C. H. (2024). Impact of day-to-day variation in FEV1 on measures of change: A conceptual description. *Journal of Cystic Fibrosis*, 23(5), 943-946.
<https://doi.org/10.1016/j.jcf.2024.07.005>

Preprints and Under Review

1. Hopkins, G., Teichman, S., **Graham, E.**, & Willis, A.D. (2025). Nonparametric Identification and Estimation of Ratios of Multi-Category Means under Preferential Sampling. ArXiv.
<https://arxiv.org/abs/2510.23920>

PRESENTATIONS

1. Data Fusion for Prospective and Retrospective Studies.
JSM, Portland - Contributed Aug. 2024
American Causal Inference Conference (ACIC), Seattle - Contributed May 2024

PROFESSIONAL AFFILIATIONS

American Statistical Association
International Biometrics Society (WNAR)