

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., 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

PROFESSIONAL POSITIONS

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 - August 2020

Biocomplexity Institute, University of Virginia

Arlington, VA

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

Research Assistant

May 2019 - August 2019

Macalester College

Saint Paul, MN

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

TEACHING EXPERIENCE

Teaching Assistant

University of Washington

Seattle, WA

Advanced Theory of Statistical Inference III

March 2024 - June 2024

Advanced Regression Methods for Dependent Data

Jan. 2024 - March 2024

Introductory Laboratory Based Biostatistics

June 2023 - August 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	<i>Jan. 2021 - May 2021</i>
Linear Algebra	<i>Sept. 2020 - Dec. 2020</i>
Computational Linear Algebra	<i>Jan. 2020 - May 2020</i>
Introduction to Statistical Modeling	<i>Jan. 2019 - May 2019</i>
Introduction to Data Science	<i>Sept. 2018 - Dec. 2018</i>

AWARDS, HONORS, FELLOWSHIPS

University of Washington

NSF Graduate Research Fellowship	<i>Sept. 2023-Sept. 2026</i>
Gertrude M. Cox Scholarship	<i>April 2022</i>

Macalester College

Phi Beta Kappa	<i>May 2021</i>
Kaplan Award for Achievement in Data Science	<i>May, 2021</i>
Clare Boothe Luce Scholar	<i>May 2019 - August 2019</i>
Dewitt Wallace Distinguished Scholarship	<i>Sept. 2017 - May 2021</i>

PROFESSIONAL SERVICE

Manuscript Reviewer

Journal of the Royal Statistical Society: Series B
Biometrics
Observational Studies

UNIVERSITY SERVICE

University of Washington, Department of Biostatistics

Department Chair Search Committee	<i>May 2024 - Present</i>
Biostatistics Activities and Events Squad	<i>Sept. 2022 - Present</i>
Statisticians and Biostatisticians of Underrepresented Genders Coordinator	<i>Sept. 2022 - Sept. 2024</i>
Peer Mentor	<i>Sept. 2022 - Present</i>
Equity, Diversity, and Inclusion Committee	<i>Sept. 2021 - Dec. 2022</i>

BIBLIOGRAPHY

Refereed Journal Publications

1. **Graham, E.**, Heltshel, 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>
2. 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>

Under Revision/Under Review/Preprint

1. **Graham, E.**, Carone, M., & Rotnitzky, A. (2024). Towards a Unified Theory for Semiparametric Data Fusion with Individual-Level Data. ArXiv.
<https://arxiv.org/abs/2409.09973>

PRESENTATIONS

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

PROFESSIONAL AFFILIATIONS

American Statistical Association
International Biometric Society (WNAAR)

SKILLS

Computer Languages	R, Python, C++
Other applications	LaTeX, Git