

# Nina Galanter

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Updated March 2024

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## EDUCATION

### University of Washington, Seattle, WA

Ph.D., Biostatistics, December 2024 (Expected)

Advisors: Marco Carone and Alex Luedtke

### Grinnell College, Grinnell, IA

B.A., Mathematics, May 2018

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## HONORS AND AWARDS

### University of Washington

National Science Foundation Graduate Research Fellowship, March 2021

Department of Biostatistics Merit Award, April 2019

ARCS Foundation Scholar, April 2019

### Grinnell College

Grinnell College Linn Smith Prize in Mathematics, April 2018

Honors in Mathematics, May 2018

Phi Beta Kappa Member, April 2017

Goldwater Scholarship, March 2017

Grinnell College Pamela Ferguson Prize in Mathematics, February 2017

Phi Beta Kappa Beta Chapter of Iowa Sophomore Book Award, April 2016

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## RESEARCH EXPERIENCE

### Graduate Student Researcher, (Unfunded) June 2023 – Present

Vaccine and Infectious Disease Division, Fred Hutch Cancer Research Center, Seattle, WA

Supervisor: Jim Boonyaratanakornkit, Ph.D.

### Graduate Student Researcher, (Unfunded) September 2021 – Present

Department of Biostatistics, University of Washington, Seattle, WA

Supervisor: Susan Shortreed, Ph.D.

### Graduate Research Assistant, March 2020 – September 2021

Department of Biostatistics, University of Washington, Seattle, WA

Supervisor: Susan Shortreed, Ph.D.

### Student Researcher, June 2017 – August 2017

Institute for Pure and Applied Mathematics RIPS Program, Hong Kong

Supervisor: Albert Ku, Ph.D.

**Student Researcher**, May 2016 – August 2016

Department of Mathematics, North Carolina State University, Raleigh, NC

Supervisor: Hien Tran, Ph.D.

**Student Researcher**, May 2015 – July 2015

Mathematics and Statistics Dept., University of North Carolina Greensboro, Greensboro, NC

Supervisor: Jan Rychtář, Ph.D.

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**TEACHING EXPERIENCE****University of Washington**

Instructor

Biostatistics 311: Regression Methods in the Health Sciences Spring 2023

Statistics Directed Reading Program Mentor

Optimal Treatment Rules Winter and Spring 2022

Survival Analysis Winter and Fall 2023

Teaching Assistant

Biostatistics 537: Survival Data Analysis in Epidemiology Winter 2023

Biostatistics 310: Biostatistics for the Health Sciences Winter 2022, Winter 2020, Fall 2019

Facilitator

Biostatistics 582: Biostatistics Student Seminar Academic Years 2022-2023, 2023-2024

**Grinnell College**

Grader

Mathematics 295: Introduction to Data Science Spring 2018

Mathematics 310: Statistical Modeling Fall 2017

Course Mentor

Mathematics 209: Applied Statistics Fall 2015

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**OTHER EXPERIENCE****Trainee**, September 2019 – September 2020

Biostatistics, Epidemiologic, and Bioinformatic Training in Environmental Health, Seattle, WA

**VISTA Data Coordinator**, June 2018 – July 2019

Alexian Brothers Housing and Health Alliance, Chicago, IL

## PRESENTATIONS

### Presentations

Inference for Optimal Treatment Rules under Stratum-wise Constraints for Discrete Rules

Joint Statistics Meetings, Toronto, ON, August 10, 2023

University of Washington Biostatistics Student Seminar, Seattle, WA, February 15, 2022

Variable Selection for Estimation of Interpretable Treatment Rules under Confounding

University of Washington Biostatistics Student Seminar, Seattle, WA, November 2, 2022

Variable Selection for Estimation of Interpretable Treatment Rules under Confounding

University of Washington Biostatistics Student Seminar, Seattle, WA, November 2, 2022

Can the potential benefit of individualizing treatment be assessed using trial summary statistics alone?

Joint Statistics Meetings, Washington DC, August 9, 2022

University of Washington Biostatistics Student Seminar, Seattle, WA, February 2, 2022

Efficient Communication in Distributed Machine Learning

Nebraska Conf. for Undergraduate Women in Mathematics, Lincoln, NE, January 27, 2018

Grinnell Mathematics and Statistics Student Seminars, Grinnell, IA, February 6, 2018

Machine Learning for the Classification of Toxicological Effects

Grinnell Mathematics and Statistics Student Seminars, Grinnell, IA, September 14, 2016

Joint Mathematics Meetings, Atlanta, GA, January 7, 2017

Machine Learning, Nash Equilibria, and Derangements: The Territorial Raider Game

Grinnell Mathematics and Statistics Student Seminars, Grinnell, IA, October 6, 2015

UNCG Regional Mathematics and Statistics Conference, Greensboro, NC, November 7, 2015

Joint Mathematics Meetings, Seattle, WA, January 8, 2016

Nebraska Conf. for Undergraduate Women in Mathematics, Lincoln, NE, January 31, 2016

### Posters

Efficient Communication in Distributed Machine Learning

Joint Mathematics Meetings, San Diego, CA, January 12, 2018

The Territorial Raider Model with Strategic Movement and Multi-Group Interactions

Intl. Symposium on Biomath. and Ecology Edu. and Research, Normal, IL, October 9, 2015

Joint Mathematics Meetings, Seattle, WA, January 8, 2016

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## PUBLICATIONS

**Galanter, N.**, Carone, M., Kessler, R.C., Luedtke, A. (In Press). Can the potential benefit of individualizing treatment be assessed using trial summary statistics alone? *American Journal of Epidemiology*

<https://arxiv.org/abs/2211.00163>

Wu, J., **Galanter, N.**, Shortreed, S. M., Moodie, E. E. M. (2022). Ranking tailoring variables for constructing individualized treatment rules: an application to schizophrenia. *Journal of the Royal Statistical Society: Series C*.

<https://rss.onlinelibrary.wiley.com/doi/10.1111/rssc.12533>

**Galanter, N.**, Silva, D., Jr., & Rowell, J., Rychtář, J. (2017). Resource Competition Amid Overlapping Territories: The Territorial Raider Model Applied to Multi-Group Interactions. *Journal of Theoretical Biology*.

<http://dx.doi.org/10.1016/j.jtbi.2016.10.007>

**Galanter, N.**, Silva, D., Jr., Rychtář, J., & Rowell, J. (2016). The Territorial Raider Game and Graph Derangements. *Discrete Applied Mathematics*.

<http://dx.doi.org/10.1016/j.dam.2016.03.016>

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## PROFESSIONAL SERVICE

### University of Washington

Member, Biostatistics Curriculum Committee, September 2023 – Present

Member, Biostatistics Equity, Diversity, and Inclusion Committee, September 2019 – Present

Member, Biostatistics Activities and Events Squad, February 2019 – Present

Facilitator, Statisticians Education Reading Group, January 2022 – June 2023

Co-leader, Statisticians and Biostatisticians of Underrepresented Genders, October 2020 – June 2023

Member, Admissions Committee, September 2022 – March 2023

Senator, Graduate and Professional Student Senate, Sept. 2019 – June 2020; Sept. 2021 – June 2022

### Grinnell College

President, Mathematics Student Educational Policy Committee, August 2017 – May 2018

Member, Mathematics Student Educational Policy Committee, August 2016 – December 2016

### Reviewer

Biometrics

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