Nina Galanter

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EDUCATION

University of Washington, Seattle, WA, Ph.D., Biostatistics, June 2024 (Expected)

Grinnell College, Grinnell, IA, B.A., Mathematics, May 2018

HONORS AND AWARDS

Merit Award, University of Washington Department of Biostatistics
Seattle, WA, April 2019

ARCS Foundation Scholar, ARCS Foundation
Seattle, WA, April 2019

Honors in Mathematics, Grinnell Department of Mathematics and Statistics
Grinnell, IA, May 2018

Linn Smith Prize in Mathematics, Grinnell Department of Mathematics and Statistics
Grinnell, IA, April 2018

Phi Beta Kappa Member, Phi Beta Kappa Beta Chapter of Iowa
Grinnell, IA, April 2017

Goldwater Scholarship, Barry Goldwater Scholarship and Excellence in Education Foundation
Saint Peter, MN, March 2017

Pamela Ferguson Prize in Mathematics, Grinnell Department of Mathematics and Statistics
Grinnell, IA, February 2017

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

RESEARCH EXPERIENCE

Student Researcher, Institute for Pure and Applied Mathematics (IPAM)
Hong Kong, June 2017 – August 2017

Analyzed the effect of communication frequency on distributed machine learning models through the IPAM Research in Industrial Projects for Students Hong Kong program, supervised by a Hong Kong University of Science and Technology (HKUST) professor and a Microsoft Research Asia sponsor.

Collaborated with US and HKUST students, reviewed literature, utilized Microsoft machine learning toolkits, wrote a research report for our sponsor, and presented findings at national conferences.

Student Researcher, Department of Mathematics, NC State University
Raleigh, NC, May 2016 – August 2016

Conducted machine learning research on US Environmental Protection Agency (EPA) toxicology data for an NC State professor and an EPA mentor.

Worked as part of a four student team, wrote programs using MATLAB, wrote a research paper, and presented findings to the EPA and at a national conference.

Student Researcher, Mathematics and Statistics Department, University of North Carolina Greensboro
Greensboro, NC, May 2015 – July 2015

Conducted research modeling territorial animal behavior using game theory and graph theory supervised by a University of North Carolina Greensboro professor.

Collaborated with another student, wrote programs using MATLAB, wrote and published two research papers, and presented findings at national conferences.

TEACHING EXPERIENCE

Teaching Assistant, Department of Biostatistics, University of Washington
Seattle, WA, September 2019 – Present

Teaching assistant for the Fall 2019 Biostatistics 310: Biostatistics for the Health Sciences course at the University of Washington.

Hold office hours for students, co-lead two weekly discussion sessions, and grade homework and exams.

Grader, Department of Mathematics and Statistics, Grinnell College
Grinnell, IA, August 2017 – May 2018

Graded about two homework assignments per week for sections of the Statistical Modeling (Fall) and Introduction to Data Science (Spring) courses at Grinnell.

Created and implemented a grading rubric for each assignment.

Class Mentor, Department of Mathematics and Statistics, Grinnell College
Grinnell, IA, August 2015 – December 2015

Assistant to a 24 student section of the Applied Statistics course at Grinnell.

Provided guidance during class activities, helped students use Minitab, and held review sessions before exams.

OTHER RELEVANT WORK EXPERIENCE

VISTA Data Coordinator, Alexian Brothers Housing and Health Alliance (ABHHA)
Chicago, IL, June 2018 – July 2019

Assisted with the implementation of an expanded database system for ABHHA client data which included writing training materials for the system.

Created external and internal reports to support ABHHA's programs, which serve individuals living with mental illness, HIV, substance use disorders, and other chronic diseases who are at risk of homelessness.

PRESENTATIONS

Efficient Communication in Distributed Machine Learning
Lecture presented at:
Nebraska Conference for Undergraduate Women in Mathematics, Lincoln, NE, January 27, 2018
Grinnell Mathematics and Statistics Student Seminars, Grinnell, IA, February 6, 2018
Poster presented at:
Joint Mathematics Meetings, San Diego, CA, January 12, 2018

Machine Learning for the Classification of Toxicological Effects
Lecture presented at:
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
Lecture presented at:
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 Conference for Undergraduate Women in Mathematics, Lincoln, NE, January 31, 2016

The Territorial Raider Model with Strategic Movement and Multi-Group Interactions
Poster presented at:
International Symposium on Biomathematics and Ecology Education and Research, Normal, IL, October 9, 2015
Joint Mathematics Meetings, Seattle, WA, January 8, 2016

PUBLICATIONS

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

PROFESSIONAL SERVICE AND AFFILIATIONS

Senator, Graduate and Professional Student Senate, University of Washington
Seattle, WA, September 2019 – Present

Member, American Statistical Association
September 2019 – Present

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

Member, Mathematics Student Educational Policy Committee, Grinnell College
Grinnell, IA, August 2016 – December 2016

COMPUTER EXPERIENCE

Programming Languages: R, MATLAB, LaTeX, Java, C, VBA

Software: JAGS, Microsoft Access