

ZOE L. REHNBERG

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(March 2021)

EDUCATION

2016 - 2022	Ph.D. in Statistics, <i>University of Michigan - Ann Arbor</i> (expected) Advisor: Johann Gagnon-Bartsch
2016 - 2019	M.A. in Statistics, <i>University of Michigan - Ann Arbor</i>
2012 - 2016	B.A. in Mathematics, <i>Washington University in St. Louis</i> Honors: <i>summa cum laude</i> ; high distinction in mathematics

RESEARCH INTERESTS

Developing methodology for the analysis of high-throughput biological and pharmacogenomic data, particularly in the presence of systematic measurement error.

TEACHING

GRADUATE STUDENT INSTRUCTOR

Winter 2019	STATS 480: Survey Sampling Techniques , upper undergraduate level.
Fall 2018	STATS 403: Introduction to Quantitative Research Methods , upper undergraduate level.
Winter 2018	STATS 280: Honors Introduction to Statistics and Data Analysis , an advanced first course in statistics.
Fall 2017	STATS 413: Applied Regression Analysis , upper undergraduate level.
Winter 2017	STATS 425: Introduction to Probability , lower undergraduate level.
Fall 2016	STATS 250: Introduction to Statistics and Data Analysis , a first course in statistics.

OTHER TEACHING ACTIVITIES

- **University of Michigan Big Data Summer Institute (2018, 2019)**

Graduate student mentor for advanced undergraduate students in a six-week research project focused on the analysis of cancer drug sensitivity data.

- **Graduate Student Instructor Mentor (January 2018 - April 2019)**

Mentor for all Department of Statistics graduate student instructors teaching advanced undergraduate or graduate statistics classes.

PREPARING TO TEACH

- **Graduate Teacher Certificate Program**

Completed through the University of Michigan Center for Research on Learning and Teaching in May 2021 (expected).

- **Seminar on Preparing Future Faculty Certificate (May - June 2020)**

Completed the five-week Rackham School of Graduate Studies and the Center for Research on Learning and Teaching's nationally-recognized program designed to help prepare doctoral candidates for the academic job search and success in their subsequent faculty positions.

- **Preparing to Teach Workshop (May 2020)**

Completed the two-day workshop to prepare graduate students for a role as undergraduate faculty responsible for teaching statistics and data science. Connected to the 2020 Conference on Teaching Statistics (eCOTS).

- **Professional Development Diversity, Equity, and Inclusion Certificate**

Completed the year-long certificate program to prepare to work in a diverse environment while fostering a climate of inclusivity in May 2021 (expected).

MENTORING

Undergraduate Students

Zhihao Guo	January 2019 - May 2019
Nicole Kim	January 2020 - May 2020
Benjamin Rappoport	January 2020 - May 2020
Vivian Wong	January 2021 - present
Kathy Huo	January 2021 - present

PRESENTATIONS

February 2021	Empirical Maximum Likelihood Normalization for Drug Screening Data. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor, MI. Contributed poster.
March 2020	Irreproducibility in Large-Scale Drug Sensitivity Data. ENAR 2020 Spring Meeting, Nashville, TN (attended virtually). Contributed talk.
February 2020	Irreproducibility in Large-Scale Drug Sensitivity Data. Michigan Student Symposium for Interdisciplinary Statistical Sciences, Ann Arbor, MI. Contributed poster.
November 2019	Irreproducibility in Large-Scale Drug Sensitivity Data. Michigan Institute for Data Science Symposium, Ann Arbor, MI. Contributed talk.
July 2019	Characterizing Irreproducibility in Drug Sensitivity Data from a Large Pharmacogenomic Study. Joint Statistical Meetings, Denver, CO. Contributed talk.
June 2019	Irreproducibility in Drug Sensitivity Data from a Large Pharmacogenomic Study. WNAR/IMS/JR Annual Meeting, Portland, OR. Invited talk.

SERVICE

- **Statistics Justice, Equity, Diversity, and Inclusion Working Group (2020 - present)**

A founding member of the graduate student working group that focuses on justice, equity, diversity, and inclusion needs within the Department of Statistics.

- **Michigan Student Symposium for Interdisciplinary Statistical Sciences Organizing Committee (2019 - 2020)**

Representative for the Department of Statistics on the organizing committee for the annual graduate student-run interdisciplinary symposium.

- **Statistics Ph.D. Student Council (2018 - present)**

A founding member of the Council and a member of the Curriculum Committee and Recruitment & Admissions Committee.

Council Co-Chair from January 2020 to December 2020.

AWARDS

- **Best Poster Presentation (February 2021)**

Awarded in recognition of the best poster presentations at the Michigan Student Symposium for Interdisciplinary Statistical Sciences.

- **Best Poster Presentation (February 2020)**

Awarded in recognition of the best poster presentations at the Michigan Student Symposium for Interdisciplinary Statistical Sciences.

- **Outstanding Teaching Team Award (2018 - 2019)**

Awarded in recognition of excellence in teaching by the Department of Statistics at the University of Michigan.

- **Honorable Mention for Teaching Award (2017 - 2018)**

Awarded in recognition of excellence in teaching by the Department of Statistics at the University of Michigan.

- **NSF Graduate Research Fellowship, honorable mention (2018)**

- **Outstanding First Year Ph.D. Student Award (2017)**

Awarded in special recognition for being an outstanding first year Ph.D. student by the Department of Statistics at the University of Michigan.

- **Martin Silverstein Award (2016)**

Awarded to the top undergraduate student in probability and statistics at Washington University in St. Louis.

PROGRAMMING SKILLS

- R
- Python
- C++

OTHER INTERESTS

My other interests include running, hiking, playing soccer, gardening, knitting, and reading for my book clubs.