

Mena Whalen

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EDUCATION

Northwestern University Evanston, Illinois

- Current Ph.D. student in Department of Statistics September 2016– Current
 - Adviser: Prof. Bruce Spencer

Missouri State University Springfield, Missouri

- B.S. in Mathematics emphasis in Statistics August 2013 – May 2016
 - Minor in Computer Science
 - Cumulative GPA: 3.76 / 4.00

PROFESSIONAL

Northwestern University Evanston, Illinois

- Teaching Assistant September 2017 – Current
 - Classes: Introductory Statistics, Survey Sampling, and Data Visualization
- Curriculum Developer January 2018 – Current
 - Develop and code course material on an online platform for Introductory Statistics, Survey Sampling, and Data Visualization
- Athletics Department Tutor September 2018 – June 2019
 - Topics: Statistics and R

Cook County Department of Corrections Chicago, Illinois

- Volunteer Instructor Summer 2019
 - Development of course materials and creating lecture notes for Intro Statistics and Data Literacy at CCDOC facilitated through Northwestern Prison Education Program

IES Summer Training Institute: Cluster Randomized Trials Evanston, Illinois

- Consultant/ Facilitator Summer 2019

Ozark Technical Community College Springfield, Missouri

- Speckman Tutoring and Learning Center Tutor August 2013 – May 2016
 - Subjects: Mathematics, Online, Study Skills, and Mentoring
- Disabled Support Services Assistant August 2014 – May 2016
 - Worked with visually impaired student in their math or physics classes

ACIS Computers Springfield, Missouri

- Executive Assistant August 2014 – May 2016
 - Worked front office, assisted customers and ran transactions in store.
 - Managed large account payments occurring on a monthly basis as well as general daily billing needs.
 - Lead social media presence for the store and created documentation for routine processes throughout the company.

Office of the Legal Defender Phoenix, Arizona

- Administrative Assistant June 2014 – August 2014
 - Delivered inter-department documents daily to courthouse and other court system buildings.
 - Organized cases set to go to trial in computer system and department filing system.

RESEARCH

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- **Change Point Analysis Methods-** Using a multidimensional time series to understand the impact of the Affordable Care Act implementation on emergency department visits by locations in Illinois.
Topics: Change Point Analysis, Clustering
- **Critique of Estimating the Replicability of Psychological Science-** Clarifying subjective ideas about replication, and methods to assess it.
Topics: Replication, Meta Analysis
- **Nonprobability Sampling of Metabolites-** Early work in the theory and application of nonprobability samples with future work with data from metabolites.

Topics: Nonprobability sampling, small area estimation, networks

▪ **Previous Research- *Dynamics and Bifurcations of a Cholera Epidemiology Model***

•Use of partial differential equations to study points of Cholera outbreak in a simple system. •Presented at Kappa Mu Epsilon 40th National Biennial Convention 2015 and MSU College of Natural and Applied Sciences Undergraduate Research Day 2015.

WORKING GROUP Statistical Methods in Social Sciences (SMSS)

▪ Meets biweekly to learn about methodological advances with applications in social and public policy. Areas of active research include replication, adaptive interventions, and single-case designs.

LEADERSHIP

Women in Statistics at Northwestern

▪ President - Founder 2018 – 2020
Goal of the group is to develop a space for women in statistics through seminar speakers, discussions, and collaborations with other female statisticians. The group hosts statistical seminars with discussions to follow about female mentorship, academic research, work - life balance, and other topics.

Women in Data Science (WiDS)

▪ Regional Ambassador 2018 – 2020
This group aims to inspire and educate data scientists worldwide, regardless of gender, and to support women in the field. The conference is hosted annually at Stanford with regional conferences planned locally by regional ambassadors.

Kappa Mu Epsilon – Mathematics Honor Society

▪ President 2015- 2016
Organized meetings that promote further education in mathematics between the math department and the larger math community.
▪ Public Relations Chair 2014- 2015
Informed the public about seminars, while developing a social media presence.

PROFESSIONAL AFFILIATIONS

American Statistical Association

Institute for Policy Research at Northwestern

Alpha Chi Omega

COURSE WORK

Northwestern Statistics and Economics Department

▪ Statistical Theory and Methodology Sequence, Survey Sampling, Regression, Design of Experiments, Multivariate Analysis, Bioinformatics and Computational Biology, Probability Theory Sequence, Applied Bayesian Analysis, History of Statistics, Applied Econometrics, Nonparametric, Meta Analysis, and Generalized Linear Models

COMPUTING SKILLS

▪ Proficient in statistical software R and Microsoft Office Products
▪ Familiarity with Python, Stata, SAS, and MATLAB
▪ Familiarity in QuickBooks

VOLUNTEER WORK

▪ **Northwestern Prison Education Program**
▪ **Big Brothers Big Sisters Chicago**