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

EMPLOYMENT

Northwestern University Evanston, Illinois

- Teaching Assistant   September 2017 – Current
  - Classes: Introductory Statistics Survey Sampling
  - Graded homeworks and exams in addition to holding office hours.
  - Worked with attendance and coordinated with students who needed extra help.
  - Coded the classes lab assignments into MyOpenMath software for ease of access for the students.
  - Integrated R examples in the class with book exercises and homework assignments.

- Tutor for Athletics Department   September 2018 – Current
  - Topics: Statistics and R
  - Worked with students in the athletic department on classes that deal with statistics or R.
  - Prepared study material, worked through homework, and developed R coding skills with the students on a weekly basis throughout the quarter.

Ozark Technical Community College Springfield, Missouri

- Tutor at Speckman Tutoring and Learning Center   August 2013 – May 2016
  - Subjects: Mathematics, Online, Study Skills, and Mentoring
  - Held drop-in style tutoring to help students work through problem sets, on a variety of topics in mathematics.
  - Held one-on-one tutoring to help students, generally first-generation students, adjust to college through time management and organization.

- Disabled Support Services Assistant   August 2014 – May 2016
  - Worked with visually impaired student in their math or physic classes by sitting in on the class with them and working through problem sets and exams.

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

- **Critique of Estimating the Replicability of Psychological Science**- This in joint work in developing the formal definition of replicability and methods to assess replication.

- **Change Point Analysis Methods**- Early work in the theory and application of change points in time series or sequential analysis. Future application work with data from emergency department visit before and after Affordable Care Act implementation.

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

■ **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   2018 – 2019
Goal of the group is to develop a space for women in statistics through seminar speakers, discussions, and collaborations with larger female statistics groups. Organized meetings and invited speakers to come to the department to discuss their research.

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, Nonparametic, Meta Analysis, and Generalized Linear Models

COMPUTING SKILLS
■ Proficient in statistical software R
■ Familiarity with Python, Stata, SAS, and MATLAB
■ Familiarity with Microsoft Office including Excel, Word, and PowerPoint
■ Familiarity in QuickBooks