

ABIGAIL L. SMITH

ADDRESS: Department of Statistics
2006 Sheridan Rd. Evanston, IL 60201
PHONE: 443-745-7187
EMAIL: als1@u.northwestern.edu

EDUCATION

- EXPECTED 2022 | Ph.D. Candidate in STATISTICS, **Northwestern University**, Evanston, IL
Evaluating the Impact of Entity Resolution Error in Network Inferences
Advisor: Dr. Bruce Spencer
- MAY 2017 | Masters of STATISTICAL PRACTICE, **Carnegie Mellon University**, Pittsburgh
- MAY 2016 | Bachelor of Science in MATHEMATICS (STATISTICS), **Carnegie Mellon University**, Pittsburgh
College Honors | Minors: Machine Learning, Biomedical Engineering

RESEARCH AND WORK EXPERIENCE

- SEPTEMBER 2018- | Assistant Chair at NORTHWESTERN RESIDENTIAL ACADEMIC INITIATIVES
International Studies Residential College
Facilitate academic programming and faculty engagement with undergraduate residents.
- JANUARY 2018- | Consultant for YOUNG RESEARCH GROUP
JUNE 2019 | *Longitudinal Design and Analysis for Child and Maternal Health*
- MARCH 2015- | Researcher at CARNEGIE MELLON DEPARTMENT OF STATISTICS
AUGUST 2017 | *Synthetic Ecosystems for Agent-Based Models*
Worked with Dr. Bill Eddy and the MIDAS team on `spew` package for synthetic populations
- AUGUST 2013- | Andrew Ambassador at CARNEGIE MELLON OFFICE OF ADMISSION
MAY 2016 | *Tour Guide and Admissions Representative*
Led campus tours, conducted student interviews and information sessions
- MAY 2014- | Summer Undergraduate Researcher at THE UNIVERSITY OF GEORGIA
AUGUST 2014 | *Population Biology of Infectious Diseases (REU)*
Developed deterministic and stochastic models for a phage-host system in the Drake Lab during this NSF-sponsored research opportunity.
- MAY 2014 | Summer Intern at JOHNS HOPKINS APPLIED PHYSICS LABORATORY
AUGUST 2014 | *Electronic Warfare Group*

TEACHING EXPERIENCE

- SEPTEMBER 2018- | Teaching Assistant at NORTHWESTERN DEPARTMENT OF STATISTICS
STAT 301 Data Science, STAT 202 Introduction to Statistics, STAT 232 Applied Statistics
Designed curriculum for STAT 301- Data Science, guest lectured STAT 202, and edited labs in R.
- JULY 2019- | Instructor at NORTHWESTERN PRISON EDUCATION PROGRAM
AUGUST 2019 | *Intro to Social Statistics and Data Literacy*
Designed and taught the course with two colleagues from NU Department of Statistics
- AUGUST 2016- | Teaching Assistant at CARNEGIE MELLON DEPARTMENT OF STATISTICS
MAY 2017 | *36-309 Experimental Design, 36-303 Sampling, Survey, and Society*
Led labs, met biweekly with groups for semester-long survey design projects

PUBLICATIONS

Miller, J., Fitzgerald, K., **Smith, A.** "Geophagy among a Cohort of Kenyan Women with Mixed HIV Status: A Longitudinal Analysis". *THE AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*, 22 July 2019.

Smith, A., Tolbert, H. “An Analysis of Existing Record Linkage Software for the Syrian Conflict Death Toll”. HUMAN RIGHTS DATA ANALYSIS GROUP. May 2017.

Smith, A. “Zika is Coming; and We Need Statistics”. CHANCE MAGAZINE (AMERICAN STATISTICAL ASSOCIATION), Vol 29.3, September 2016, p. 17-26.

PRESENTATIONS AND PROJECTS

Dunford, E., Hagar, N., Smith, A., Abbot, R. “qualify: A R Package for Transparent Data Generation”. *Summer Institute for Computational Social Science: Chicago* (2019).

Smith, A. “Incorporating Record Linkage Error in Network Inferences”. *Women in Statistics and Data Science* Seattle, WA. Oct 2019.

Ventura, S. **Smith, A.**, Gallagher, S., Richardson, L., Chang, A. “Zika is Coming; and We Need Statistics”. *Joint Statistical Meetings*. Baltimore, MD. July 2017.

Smith, A. “Modeling Cross-Border Ebola Transmissions; Agent-Based Models for Infectious Diseases”. *Meeting of the Minds Research Symposium*. Pittsburgh, PA. May 2015, 2016.

Smith, A., Drake, J., Kaul, R. “Mathematical Models for a T7 Phage-*E.coli* System with Vaccination Strategy Implementation”. *Emerging Researchers National Conference*. Washington, D.C. February 2015.

LEADERSHIP AND SERVICE EXPERIENCE

Women in Statistics Group: External Events Coordinator

Primary conference organizer and ambassador for Women in Data Science (WiDS): Chicago

R-Ladies Chicago and Chicago R Unconference

Served on the R-Ladies Chicago board, hosted several events to connect the R user community, contributed to open-source packages.

Graduate Women Across Northwestern (GWAN): Service Chair

Planned service opportunities for graduate women at Northwestern

Girls on the Run: Chicago

Coached/mentored girls ages 9-13 in an after-school 5k training program; coordinated race days

Carnegie Mellon Project Rwanda

President of initiative to bridge the gap between the CMU-Pittsburgh and CMU-Africa campuses; organized student-led trip to Kigali

ASSOCIATIONS

Institute for Policy Research Graduate Affiliate, Northwestern

American Statistical Association Member

SKILLS AND COURSES

Software: Advanced : R
 Proficient: Python, SAS, SQL