

ABIGAIL L. SMITH

ADDRESS: Department of Statistics
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EDUCATION

- EXPECTED 2022 | Ph.D. Candidate in STATISTICS, **Northwestern University**, Evanston, IL
Incorporating Record Linkage 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". 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

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, Python
Proficient: SAS, SPSS, SQL
Beginner: C

Relevant Courses : Statistical Methods for Epidemiology, Applied Linear Models, Time Series, Multilevel/Hierarchical Models, Principles of Computer Science, Data Mining, Innovating for Underserved Communities, Experimental Design, Machine Learning, Probability Theory, Advanced Survey/Sampling, Social Network Analysis