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. Student in STATISTICS, **Northwestern University**, Evanston, IL
	Advisor: Dr. Bruce Spencer
MAY 2017	Masters of STATISTICAL PRACTICE, **Carnegie Mellon University**, Pittsburgh | 3.9/4.0
MAY 2016	Bachelor of Science in MATHEMATICS (STATISTICS), **Carnegie Mellon University**, Pittsburgh
	College Honors | Minors: Machine Learning, Biomedical Engineering

Work Experience

SEPTEMBER 2018-

Assistant Chair at NORTHWESTERN RESIDENTIAL ACADEMIC INITIATIVES
International Studies Residential College

Co-advised the college's 11 executive board members and provided guidance on residence hall programming. Engaged faculty fellows from across the university in research talks and lunches with the undergraduate students.

MARCH 2015-
AUGUST 2017

Researcher at CARNEGIE MELLON DEPARTMENT OF STATISTICS
Synthetic Ecosystems and Agent-Based Modelling

Worked with Professor Bill Eddy in the Department of Statistics as part of the MIDAS (Models of Infectious Disease Agent Study) team to generate synthetic populations that will be used to develop agent-based models of infectious diseases, such as dengue fever and chikungunya. Mentored an undergraduate student.

AUGUST 2013-
MAY 2016

Andrew Ambassador at CARNEGIE MELLON OFFICE OF ADMISSION
Tour Guide and Admissions Representative

Led campus tours, conducted student interviews and information sessions, and answered emails from prospective students.

SUMMER 2014

Summer Undergraduate Researcher at THE UNIVERSITY OF GEORGIA
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.

SUMMER 2013

Summer Intern at JOHNS HOPKINS APPLIED PHYSICS LABORATORY
Electronic Warfare Group

Modeled missile defense systems using MATLAB, and performed identification/statistical analyses on jammer systems. Obtained a Secret Security Clearance.

Teaching Experience

SEPTEMBER 2018-

Teaching Assistant at NORTHWESTERN DEPARTMENT OF STATISTICS
STAT 202 Introduction to Statistics, STAT 232 Applied Statistics

Gave several lectures , held office hours, graded tests, and edited labs in R.

AUGUST 2016-
MAY 2017

Teaching Assistant at CARNEGIE MELLON DEPARTMENT OF STATISTICS
36-309 Experimental Design, 36-303 Sampling, Survey, and Society

Led SPSS labs, held office hours, met biweekly with groups for semester-long survey design projects, and graded homework and tests.

Presentations and Publications

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., 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.

Smith, A. "The Impact of the 2010 Haiti Earthquake on Families Using Statistics Without Borders Data". American Statistical Association Website. November 2015. http://bit.ly/2igMFEb.

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
Led philanthropic efforts and conference funding opportunities to engage with women in the statistics community 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
Buffett Institute for Global Studies Graduate Affiliate, Northwestern
American Statistical Association Member

Computer Skills and Relevant Coursework

Computer Skills:	Advanced : R, Python, LaTeX, Excel
	Proficient: SAS, C, matlab, SPSS
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, Special Topics: Replication, Demography