

Peter M. Jacobs

jacobs.269@osu.edu, (216)-375-5017

Home Address: 29555 Shaker Blvd. Pepper Pike, Ohio 44124

Education

Ohio State University Columbus

M.S Statistics

GPA 3.79/4.00

Expected Spring 2019

Ohio State University Columbus

B.S. Data Analytics - *Summa Cum Laude*

GPA 3.97/4.00

Spring 2017

Research

Data Mining Research Laboratory – Computer Science Department

February 2016 – April 2017

Research Assistant

Columbus, OH

- Implemented a custom designed semi-supervised image processing algorithm in python for flood mapping satellite images
- Developed a crowdsourcing leveraging web application for the algorithm, and deployed it to classrooms of Ohio State students to flood map three satellite images of disaster areas [Chennai 2015, Houston 2016, Lumberton, NC 2017]
- Presented the algorithm at the KDD 2016 Workshop on Interactive Data Exploration and Analytics
- Displayed the web application at the 2017 Denman Undergraduate Research Forum

Research Experience for Undergraduates in Data Analytics – University of Houston

June 2016 – August 2016

Researcher

Houston, TX

- Developed a classification algorithm for detecting stepping stone connections, an internet connection type used by hackers to conduct attacks
- Designed and conducted experiments to test the efficacy of the algorithm
- Presented research to University of Houston Computer Science faculty & graduate students through a poster session and a 15 minute talk, receiving a 'Top 3' Poster award

Employment

Statistics Department - Ohio State

August 2017 - Present

Graduate Teaching Assistant

Columbus, OH

Stat 1430 - Statistics for the Business Sciences

- Led twice weekly recitations with 70 students, communicating statistical concepts to students in a public speaking setting, as well as in a one-on-one setting

Amerimark

May 2015 – August 2015

E-Commerce Internship

Cleveland, OH

- Applied Generalized Linear Modeling techniques to identify factors directly related to daily quantities of customer orders
- Utilized SQL extensively to extract data from internal database and generate reports for E-Commerce Department

Psychology Department - Ohio State

August 2013-April 2014

Peer Expert

Columbus, OH

Psychology 2220 - Introductory Inferential Statistics Course

- Tutored students in various introductory inferential statistics concepts, gaining experience explaining complicated statistics concepts in easy to understand ways

Publications

- J. Liang, **P. Jacobs**, S. Parthasarathy. "Human-Guided Flood Mapping: From Experts to the Crowd". To appear in *Proceedings of the Web Conference (WWW'18)*, 2018.
- J. Liang, **P. Jacobs**, J. Sun, S. Parthasarathy. "SEANO: Semi-supervised Embedding in Attributed Networks with Outliers". To appear in *Proceedings of SIAM International Conference on Data Mining (SDM'18)*, 2018.

Awards and Honors

- National Science Foundation Graduate Research Fellowship Honorable Mention: Computational and Data-enabled Science

Programming Languages

- R, Python, SQL, Java, Ruby on Rails