Peter M. Jacobs

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

Education

Ohio State University Columbus	**GPA 3.68/4.00**
M.S. Statistics	Expected Spring 2019
Ohio State University Columbus	**GPA 3.97/4.00**
B.S. Data Analytics - *Summa Cum Laude*	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 crowdsource 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

Teaching

Statistics Department August 2018 – Present

Graduate Teaching Manager Columbus, OH

Stat 1430 – Statistics for the Business Sciences

- Developed and communicated policy and course information to the 900 students taking this course during the transition from hand written to online recitation submission format
- Monitored Graduate Teaching Assistants to ensure timely grading and appropriate workload

Statistics Department 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

Activities

Columbus Blue Jackets Club March 2013-April 2014

Founder and President Columbus, OH

- Created a student organization on campus, which involved finding a vice president, treasurer, and faculty advisor, as well as the creation of a constitution
- Established monthly communications with the Columbus Blue Jackets marketing team

Publications

- J. Liang, **P. Jacobs**, S. Parthasarathy. "Human-Guided Flood Mapping: From Experts to the Crowd". 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". 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