
Summary of Qualifications

- Published “big-data” analysis research on social media, information diffusion, and social computing
- Experience with Machine Learning, Natural Language Processing, and Network Analysis
- Professional and academic experience with database construction and maintenance, web-app frameworks, and information visualization
- Professional experience programming in Python and Java; comfortable with agile development in Windows and UNIX

Northwestern University

September 2015 – Present

PhD Student in Technology and Social Behavior (joint program in Computer Science and Communications)

University of Washington

September 2010 – December 2014

Double degree in Human Centered Design and Engineering (B.S.) and History (B.A.), cumulative GPA of 3.64

Selected Conference Publications

- Robinson, J., **Maddock, J.**, Starbird, K. (2015). Examining the Role of Human and Technical Infrastructure in Improvisation during Emergency Response. *2015 ISCRAM 2015*.
- **Maddock, J.**, Starbird, K., Al-Hassani, H., Sandoval, D., Orand, M., & Mason, R.M. (2015). Characterizing Online Rumoring Behavior Using Multi-Dimensional Signatures. *CSCW 2015*.
- Starbird, K., **Maddock, J.**, Orand, M., Achterman, P., & Mason, R.M. (2014). Rumors, False Flags, and Digital Vigilantes: Misinformation on Twitter after the 2013 Boston Marathon Bombing. *iConference 2014*, 654-662. (Best Note award)

Awards

HCDE Research Scholarship (2014), Capstone Design Award (2014), Mary Gates Research Scholar (2014), Sleizer Scholar History Award (2014, 2013), Power History Prize (2013), Dean 's List (2014-2012)

Current and Previous Employment

Graduate Researcher, Northwestern University, Chicago

September 2015 – present

- Investigate collaboration dynamics
- Collect and analyze multilingual Wikipedia datasets using “big-data” network analysis techniques

Research Intern, Microsoft Research India, Bangalore, India

May – August 2015

- Built multilingual identification system for mixed-language (codemixed) Twitter data
- Used Machine Learning and Natural Language Processing techniques
- Wrote Python and Java Code

HCDE Researcher, emCOMP and SoMe Labs, University of Washington, Seattle

August 2013 – March 2015

- Explored the spread of misinformation on Twitter in crisis situations
- Maintained dataset using relational (MySQL) and non-relational (MongoDB) databases
- Programed Python scripts and created data visualizations with Tableau
- Developed tools for Twitter data collection and storage using Python, Django, and RabbitMQ
- Contributed to research team’s written publications and presented research

Teaching Assistant, University of Washington, Seattle

September – March 2014

- Taught Information Visualization and Social Media and Data Mining
- Graded quizzes, labs, and projects; provided feedback and tutoring to students
- Configured Development Environments in Windows and Unix
- Explored technologies for course additions (R, MongoDB)

Software Engineering Intern, Earth Economics, Tacoma

April – August 2013

- Coded and tested back-end ruby on rails infrastructure
- Designed and implemented front end web-app interface
- Worked in agile development environment

Additional Projects and Hobbies

- User Researcher and Designer for Three Good Things Facebook App
- Researcher for Technologies for Resource-Constrained Environments South African Milk Banking Project
- University of Washington Cycling Team Officer and Webmaster
- Studied Abroad; Fluent in Spanish