

Jim Maddock

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EDUCATION

Northwestern University, Evanston IL *2015 - present*

Technology and Social Behavior (PhD in Computer Science and Communications)

Dissertation: Socio-technical Systems for Identifying Latent Knowledge Gaps, *supported by the Wikimedia Foundation*

University of Washington, Seattle WA *2010 - 2014*

Human Centered Design and Engineering (BS), History (BA)

PROFESSIONAL EXPERIENCE

Graduate Researcher and Instructor, Northwestern University *September 2015 - present*

Investigate collaboration in large online communities, such as Wikipedia, Twitter, Reddit, and the Zooniverse, using mixed methods techniques.

Research Intern, Mozilla *June - September 2019*

Designed and conducted qualitative and quantitative studies for the Mozilla Emerging Technologies Team. Studied voice interaction.

User Experience Research Intern, Google *June - September 2018*

Conducted foundational and evaluative user diary research for the Google Maps and Google Assistant teams. Ran usability studies, co-design studies, diary studies, and conducted field work.

Research Intern, Microsoft Research India *May - August 2015*

Used machine learning techniques to detect and analyze multilingual text. Developed applications using Java and Python for collecting, processing, and analyzing social media data

Researcher and Teaching Assistant, University of Washington *August 2013 - March 2015*

Explored the spread of misinformation on Twitter in crisis situations. Maintained SQL and Mongo databases. Wrote Python scripts and created data visualizations with Tableau. Developed research tools using Google AppEngine. Taught Information Visualization and Social Media and Data Mining.

Software Engineering Intern, Earth Economics *April - August 2013*

Developed and tested back-end Ruby on Rails infrastructure. Designed and implemented front end web-app interface. Worked in agile development environment.

FELLOWSHIPS, GRANTS, AND AWARDS

NSF Graduate Research Fellowship Program *2017 - 2020*

Pre-Doctoral Ford Fellowship Honorable Mention *2017, 2016*

NSF Graduate Research Fellowship Program Honorable Mention *2016*

HCDE Research Scholarship, Capstone Design Award, Mary Gates Research Scholar *2014*

Sleizer Scholar History Award, Power History Prize *2014, 2013*

TEACHING

Computing Everywhere Instructor, Northwestern University *2016 - 2018*

Communication and Technology TA, Northwestern University *Fall 2018*

Social Media and Data Mining TA, University of Washington *Winter 2014*

Information Visualization TA, University of Washington *Fall 2013*

PUBLISHED PAPERS, REVIEWED IN FULL

- STARBIRD, K., SPIRO, E., EDWARDS, I., ZHOU, K., MADDOCK, J., AND NARASIMHAN, S. Could This Be True?: I Think So! Expressed Uncertainty in Online Rumoring. In *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems* (New York, NY, USA, 2016), CHI '16, ACM, pp. 360–371
- ROBINSON, J. J., MADDOCK, J., AND STARBIRD, K. Examining the role of human and technical infrastructure during emergency response. In *12th International Conference on Information Systems for Crisis Response and Management* (2015), Information Systems for Crisis Response and Management, ISCRAM
- MADDOCK, J., STARBIRD, K., AL-HASSANI, H. J., SANDOVAL, D. E., ORAND, M., AND MASON, R. M. Characterizing online rumoring behavior using multi-dimensional signatures. In *Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work & Social Computing* (2015), ACM, pp. 228–241
- STARBIRD, K., MADDOCK, J., ORAND, M., ACHTERMAN, P., AND MASON, R. Rumors, False Flags, and Digital Vigilantes: Misinformation on Twitter After the 2013 Boston Marathon Bombing. In *iConference 2014 Proceedings* (Berlin, Germany, Mar. 2014), pp. 654 – 662

POSTER, WORKSHOPS, AND NON-ARCHIVAL PUBLICATIONS

- MADDOCK, J., SHAW, A., AND GERGLE, D. Talking About Talk: Coordination in Large Online Communities. In *The 67th Annual Conference of the International Communication Association* (San Diego, CA, US, 2017)
- MADDOCK, J., SHAW, A., AND GERGLE, D. Talking About Talk: Coordination in Large Online Communities. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems* (New York, NY, USA, 2017), CHI EA '17, ACM, pp. 1869–1876
- MADDOCK, J., GERGLE, D., AND STARBIRD, K. Two is Better than One: A Mixed Methods Approach to Human Centered-Data Science. In *Workshop on Human Centered Data Science at The 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing* (San Francisco, CA, USA, 2016)
- WALLS, L., MADDOCK, J., STARBIRD, K., AND SPIRO, E. What Should Count?: A Quantitative Approach to Scoping Rumors in Social Media. In *11th International Conference on Social Media & Society* (Toronto, Ontario, Canada, 2015)
- STARBIRD, K., SPIRO, E., ARIF, A., CHOU, R., NARASIMHAN, S., MADDOCK, J., SHANAHAN, K., AND ROBINSON, J. Expressed Uncertainty and Denials as Signals of Online Rumoring. In *The 2015 Collective Intelligence Conference* (Santa Clara, CA, USA, 2015)
- MADDOCK, J., AND STARBIRD, K. Using Historical Twitter Data for Research: Ethical Challenges of Tweet Deletions. In *Workshop on Ethics at the 2015 Conference on Computer Supported Cooperative Work and Social Computing* (Vancouver, B.C., 2015)