

Isaac L. Johnson

Ph.D. Student
Department of Computer Science
Northwestern University

isaacj@u.northwestern.edu
<http://www.isaacjoh.com>

Research Areas

Human-Centric Algorithms, Algorithmic Auditing, Social Computing, Geography and GIScience

Education

Northwestern University, Evanston, IL Sept 2016 - Present

- Doctor of Philosophy in Computer Science
- Advisor: Dr. Brent Hecht

University of Minnesota, Twin Cities May 2016

- Master of Science in Computer Science
- Advisor: Dr. Brent Hecht
- Cumulative GPA: 3.85 / 4.00

University of Pittsburgh, Pittsburgh, PA April 2012

- Bachelor of Arts in Environmental Studies
- Cumulative GPA: 4.00 / 4.00

Conference Papers

[PACM IMMUT / UbiComp 2017] **Johnson, I.**, Henderson, J., Perry, C., Schöning, J., and Hecht, B. Beautiful...but at What Cost? An Examination of Externalities in Geographic Vehicle Routing. *Proceedings of the ACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (PACM IMMUT / UbiComp '17)*. Vol. 1, No. 2, Article 15.

[ICWSM 2017] McMahon, C., **Johnson, I.**, and Hecht, B. The Substantial Interdependence of Wikipedia and Google - A Case Study on the Relationship between Peer Production Communities and Intelligent Technologies. *AAAI International Conference on Web and Social Media 2017*.

[CHI 2017] **Johnson, I.**, McMahon, C., Schöning, J., and Hecht, B. The Effect of Population and "Structural" Biases on Social Media-based Algorithms – A Case Study in Geolocation Inference Across the Urban-Rural Spectrum. *ACM Conference on Human Factors in Computing Systems 2017*.

[CHI 2017] **Johnson, I.**, Schwanda Sosik, V., and Ballard, K. Stranger Searching in a Strange Land: The Impact of Familiarity on Local Search. *ACM Conference on Human Factors in Computing Systems 2017*. Short Paper.

[ICWSM 2016] Miller, H., Thebault-Spieker, J., Chang, S., **Johnson, I.**, Terveen, L., and Hecht, B. "Blissfully happy" or "ready to fight": Varying Interpretations of Emoji. *AAAI International Conference on Web and Social Media 2016*.

[CHI 2016] **Johnson, I.**, Sengupta, S., Schöning, J., and Hecht, B. The Geography and Importance of Localness in Geotagged Social Media. *ACM Conference on Human Factors in Computing Systems 2016*.

[CHI 2016] **Johnson, I.**, Lin, Y., Li, T., Hall, A., Halfaker, A., Schöning, J., and Hecht, B. Not at Home on the Range: Peer Production and the Urban/Rural Divide. *ACM Conference on Human Factors in Computing Systems 2016*.

[IJCAI 2015] Sen, S., **Johnson, I.**, Harper, R., Mai, H., Mathers, B., Vonessen, L., Wright, M., and Hecht, B. Towards Domain-Specific SR: A Case Study from Geography. *International Joint Conference on Artificial Intelligence 2015*.

Workshop Papers

[CSCW 2017] **Johnson, I.** and Hecht, B. Inferred Profiles: Examining How People Understand and Control What Algorithms Infer about Them. *ACM Conference on Computer-Supported Cooperative Work and Social Computing 2017 Workshop on Networked Privacy*.

[AAAI Spring Symposium 2016] **Johnson, I.** and Hecht, B. Structural Causes of Bias in Crowd-derived Geographic Information: Towards a Holistic Understanding. *AAAI 2016 Spring Symposium on Observational Studies through Social Media and Other Human-Generated Content*.

Professional Experiences

Google, Mountain View, CA

June 2016 - September 2016

- User Experience Research Intern with Google Maps
- Mentor: Dr. Kacey Ballard

Bettis Atomic Power Laboratory, West Mifflin, PA

June 2012 - July 2014

- GIS Specialist