

CURRICULUM VITAE: JACOB THEBAULT-SPIEKER

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RESEARCH INTERESTS

Bias, social computing, peer production, sharing economy, crowdsourcing, spatial computing

EDUCATION

- 2017 PhD in Computer Science – University of Minnesota
Dissertation: *Understanding Geographic Bias in Crowd Systems*
Committee: Loren Terveen (advisor), Brent Hecht (co-advisor, Northwestern University), Dan Keefe, Kate Starbird (University of Washington)
- 2011 Bachelor of Arts, Computer Science – University of Minnesota – Morris
Bachelor of Arts, Spanish – University of Minnesota – Morris

EMPLOYMENT

VIRGINIA TECH

Curr. Postdoctoral Associate, Department of Computer Science (began Jan. 2018)

IBM RESEARCH – ALMADEN

2014 Research Intern (Mentors: Jeff Nichols, Jalal Mahmud)

CARNEGIE MELLON REU

2010 Summer REU Intern (Mentor: Mahadev Satyanarayanan)

PUBLICATIONS

(Google Scholar Citations: 506, h-index: 7)

REFEREED PAPERS IN JOURNALS

- 2019 Sukrit Venkatagiri, **Jacob Thebault-Spieker**, Rachel Kohler, John Purivance, Rifat Sabbir Mansur, and Kurt Luther 2019. GroundTruth: Augmenting Expert Image Geolocation with Crowdsourcing and Shared Representations. *Proc. ACM Hum.-Comput. Interact.* 3, CSCW.
- 2018 **Jacob Thebault-Spieker**, Daniel Kluver, Maximilian A. Klein, Aaron Halfaker, Brent Hecht, Loren Terveen, and Joseph A. Konstan 2017. Simulation Experiments on (the Absence of) Ratings Bias in Reputation Systems. *Proceedings of the ACM on Human-Computer Interaction* 1, CSCW: 101:1–101:25. <https://doi.org/10.1145/3134736>
- S. Andrew Sheppard, Julian Turner, **Jacob Thebault-Spieker**, Haiyi Zhu, and Loren Terveen 2017. Never Too Old, Cold or Dry to Watch the Sky: A Survival Analysis of Citizen Science Volunteerism. *Proc. ACM Hum.-Comput. Interact.* 1, CSCW: 94:1–94:21. <https://doi.org/10.1145/3134729>

- 2017 **Jacob Thebault-Spieker**, Loren Terveen, and Brent Hecht 2017. Toward a Geographic Understanding of the Sharing Economy: Systemic Biases in Uberx and Taskrabbit. *ACM Trans. Comput.-Hum. Interact.* 24, 3: 21:1–21:40. <https://doi.org/10.1145/3058499>

REFEREED PAPERS IN CONFERENCES

- 2018 **Jacob Thebault-Spieker**, Aaron Halfaker, Loren G. Terveen, and Brent Hecht 2018. Distance and Attraction: Gravity Models for Geographic Content Production. In *Proceedings of the 2018 Chi Conference on Human Factors in Computing Systems* (CHI '18), 148:1–148:13. <https://doi.org/10.1145/3173574.3173722>
- Jacob Thebault-Spieker**, Brent Hecht, and Loren Terveen 2018. Geographic Biases Are 'Born, Not Made': Exploring Contributors' Spatiotemporal Behavior in Openstreetmap. In *Proceedings of the 2018 Acm Conference on Supporting Groupwork* (GROUP '18), 71–82. <https://doi.org/10.1145/3148330.3148350>
- 2017 Hannah Miller, Daniel Kluver, **Jacob Thebault-Spieker**, Loren Terveen, and Brent Hecht 2017. Understanding Emoji Ambiguity in Context: The Role of Text in Emoji-Related Miscommunication. In *Eleventh International Aaai Conference on Web and Social Media* (ICWSM '17).
- Jacob Thebault-Spieker***, Ashley Colley*, Allen Yilun Lin*, Donald Degraen, Benjamin Fischman, Jonna Häkkinen, Kate Kuehl, Valentina Nisi, Nuno Jardim Nunes, Nina Wenig, Dirk Wenig, Brent Hecht**, and Johannes Schöning** 2017. The Geography of Pokémon Go: Beneficial and Problematic Effects on Places and Movement. In *Proceedings of the 2017 Chi Conference on Human Factors in Computing Systems* (CHI '17), 1179–1192. <https://doi.org/10.1145/3025453.3025495> (* indicates co-first-author, ** - indicates co-Principal Investigators)
- Andrew Hall, Sarah McRoberts, **Jacob Thebault-Spieker**, Yilun Lin, Shilad Sen, Brent Hecht, and Loren Terveen 2017. Freedom Versus Standardization: Structured Data Generation in a Peer Production Community. In *Proceedings of the 2017 Chi Conference on Human Factors in Computing Systems* (CHI '17), 6352–6362. <https://doi.org/10.1145/3025453.3025940>
- 2016 Hannah Miller, **Jacob Thebault-Spieker**, Shuo Chang, Johnson Isaac, Loren Terveen, and Brent Hecht 2016. "Blissfully Happy" or "Ready to Fight": Varying Interpretations in Emoji. In *Proceedings of the 10th International Conference on Web and Social Media* (ICWSM '16).
- 2015 **Jacob Thebault-Spieker**, Loren G. Terveen, and Brent Hecht 2015. Avoiding the South Side and the Suburbs: The Geography of Mobile Crowdsourcing Markets. In *Proceedings of the 18th Acm Conference on Computer Supported Cooperative Work & Social Computing* (CSCW '15), 265–275. <https://doi.org/10.1145/2675133.2675278>
- Aaron Halfaker, Oliver Keyes, Daniel Kluver, **Jacob Thebault-Spieker**, Tien Nguyen, Kenneth Shores, Anuradha Uduwage, and Morten Warncke-Wang 2015. User Session Identification Based on Strong Regularities in Inter-Activity Time. In *Proceedings of the 24th International Conference on World Wide Web* (WWW '15), 410–418. <https://doi.org/10.1145/2736277.2741117>

POSTERS AND EXTENDED ABSTRACTS

- 2016 **Jacob Thebault-Spieker**, Anbang Xu, Jilin Chen, Jalal Mahmud, and Jeffrey Nichols 2016. Exploring Engagement in a 'Social Crowd' on Twitter. In *Proceedings of the 19th Acm Conference on Computer Supported Cooperative Work and Social Computing Companion* (CSCW '16 Companion), 417–420. <https://doi.org/10.1145/2818052.2869112>

WORKSHOP PAPERS

2018

Sukrit Venkatagiri, **Jacob Thebault-Spieker**, Aliza Camacho, and Kurt Luther 2018. Localness and Urbanness in Geographic Crowd Work. In (CSCW '19 Companion).

2015 Jacob Thebault-Spieker, Brent Hecht, and Loren Terveen 2015. Digitally Reflecting Our Space: Crowdsourcing Space Usage Rules. In (Information Technology and City Life Workshop - Cscw '15).

2013 Jacob Thebault-Spieker 2013. CitizenSense: A Geographic Collective Intelligence Platform. In *Symposium on Urban Informatics Exploring Smarter Cities* (Symposium on Urban Informatics Exploring Smarter Cities).

2010 Jacob Thebault-Spieker 2010. Can Protocol and Application Layer Statistics Improve Client-Server Responsiveness? In *Midwest Instructional Computing Symposium* (MICS '10).

REFEREED DOCTORAL CONSORTIA

2016 Jacob Thebault-Spieker 2016. Quantifying, Understanding, and Mitigating Crowd Work Bias. In *Fourth Aaai Conference on Human Computation and Crowdsourcing* (HCOMP '16 Doctoral Consortium).

GRANTS AND AWARDS

GRANTS

2015 \$1500, Social Media and Business Analytics Collaborative (SOBACO) Travel Grant

2014 \$1000, Social Media and Business Analytics Collaborative (SOBACO) Travel Grant

2009 \$1400, Undergraduate Research Opportunity Program Grant – University of Minnesota, Morris

TEACHING

AS GRADUATE TEACHING ASSISTANT AT UNIVERSITY OF MINNESOTA

- CS5115: User Interface Design. Fall 2017.
- CS1902: Structure of Computer Programming II. Fall 2011, Spring 2012.

AS UNDERGRADUATE TEACHING ASSISTANT AT UNIVERSITY OF MINNESOTA - MORRIS

- CS3401: Models of Computing Systems. Fall 2010, Spring 2011.

PROFESSIONAL SERVICE

ORGANIZING COMMITTEES

2019 CSCW Publications Co-Chair
Co-Editor of 'Negotiating Trust and Truth in Socio-Technical Systems' special issue of Transactions on Social Computing

PROGRAM COMMITTEES

2018: CHI Late-Breaking Work
Emoji2018: 1st International Workshop on Emoji Understanding and Applications in Social Media

REVIEWING

Conference Proceedings

- CSCW
- CHI (*recognized as an Excellent Reviewer in: 2017, 2018*)
- UbiComp (*recognized as an Excellent Reviewer in 2016*)
- MobileHCI
- ICWSM

Journals

- ACM Transactions on Computer-Human Interaction (TOCHI)
- Interaction Design and Architecture (IxD&A)
- ACM Transactions on Social Computing (TSC)