

# Curriculum Vitae: Jacob Thebault-Spieker

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## Research Areas

Human-Computer Interaction (HCI), Social Computing. **Areas of Focus:** *crowd work practice, geographic bias, sharing economies, peer production, mobile crowdsourcing, citizen science.*

## Education

- Univeristy of Minnesota (2011 - 2017): *PhD in Computer Science*
- University of Minnesota – Morris (2007 - 2011): *Bachelor of Arts, Computer Science, Bachelor of Arts, Spanish*

## Publications

Refereed Papers in Archival Publication Venues (Conferences and 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**, 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>
- **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

- 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**, 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>
- **Jacob Thebault-Spieker\***, Ashley Colley\*, Allen Yilun Lin\*, Donald Degraen, Benjamin Fischman, Jonna Häkkinä, 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 - Csw '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

*Social Media and Business Analytics Collaborative (SOBACO) Travel Grant*

- Travel Grant to attend CSCW. \$1500. 2015.
- Travel Grant to attend CSCW. \$1000. 2014.

*Undergraduate Research Opportunity Program Grant*

- University of Minnesota, Morris. \$1400. 2009.

## Research Internships and REUs

IBM Research – Almaden

- **Summer 2014**. *Advisors: Jeff Nichols, Jalal Mahmud*. Defined and implemented a research project in the space of grassroots engagement efforts on Twitter. Resulted in CSCW 2016 Poster.

- **Summer 2010.** *Advisor: Mahadev Satyanarayanan.* Researched the feasibility of prefetching in Internet Suspend/Resume. Demonstrated that the simple (boot) case does not provide performance improvements.

## Teaching Experience

### Teaching Assistantships

- *University of Minnesota:* Structure of Computer Programming II (Undergraduate) - Fall 2011, Spring 2012.
- *University of Minnesota – Morris:* Models of Computing Systems (Undergraduate) - Fall 2010, Spring 2011.

## Professional Service

### Organizing Committees

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

### Program Committees

- CHI 2018 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)