

# CURRICULUM VITAE: JACOB THEBAULT-SPIEKER

KnowledgeWorks II  
2202 Kraft Drive  
Blacksburg, Virginia 24060

<http://jacob.thebault-spieker.com>  
[jthebaultspieker@vt.edu](mailto:jthebaultspieker@vt.edu)

## RESEARCH INTERESTS

social biases, crowd sourcing, spatial computing, social computing, sharing economy, peer production

## EDUCATION

- 2017 PhD in Computer Science – University of Minnesota  
Dissertation: *Understanding Geographic Bias in Crowd Systems*  
Co-Advisors: Loren Terveen, Brent Hecht (Northwestern University)  
Committee: 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

- Curr. *Virginia Tech*  
Postdoctoral Associate, Department of Computer Science (began Jan. 2018)
- 2014 *IBM Research – Almaden*  
Research Intern (Mentors: Jeff Nichols, Jalal Mahmud)
- 2010 *Carnegie Mellon*  
Summer REU Intern (Mentor: Mahadev Satyanarayanan)

## HONORS AND AWARDS

### GRANTS AWARDED AS A STUDENT

- 2018 Special Recognition for Outstanding Reviews, CHI Papers
- 2017 Special Recognition for Outstanding Reviews, CHI Papers and Notes
- 2016 Special Recognition for Outstanding Reviews, Ubicomp Papers and Notes
- 2015 Social Media and Business Analytics Collaborative (SOBACO) Travel Grant. Total: \$1500
- 2014 Social Media and Business Analytics Collaborative (SOBACO) Travel Grant. Total: \$1000
- 2009 Undergraduate Research Opportunity Program Grant. Total: \$1400

## PUBLICATIONS (Google Scholar Citations: 533, h-index: 7)

### REFEREED PAPERS IN JOURNALS

- [J4] 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.
- [J3] 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>
- [J2] 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>
- [J1] 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

- [C8] 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>
- [C7] 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>
- [C6] 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).
- [C5] Jacob Thebault-Spieker\*, Ashley Colley\*, Allen Yilun Lin\*, Donald Degraen, Benjamin Fischman, Jonna Häkklilä, 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)
- [C4] 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>
- [C3] 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).
- [C2] 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>
- [C1] 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>

REFEREED NONARCHIVAL WORKSHOP PAPERS

- [w4] Sukrit Venkatagiri, Jacob Thebault-Spieker, Aliza Camacho, and Kurt Luther 2018. Localness and Urbanness in Geographic Crowd Work. In (CSCW '19 Companion).
- [w3] 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).
- [w2] 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).
- [w1] Jacob Thebault-Spieker 2010. Can Protocol and Application Layer Statistics Improve Client-Server Responsiveness? In *Midwest Instructional Computing Symposium* (MICS '10).

REFEREED NONARCHIVAL CONFERENCE PAPERS (DEMOS, POSTERS, EXTENDED ABSTRACTS, ETC.)

- [p4] Jacob Thebault-Spieker, Sukrit Venkatagiri, David Mitchell, Chris Hurt, and Kurt Luther 2019. PairWise: Mitigating Political Bias in Crowdsourced Content Moderation. In (HCOMP 2019 Work in Progress/Demos).
- [p3] Sukrit Venkatagiri, Jacob Thebault-Spieker, Sarwat Kamzi, Efua Akonor, and Kurt Luther 2019. It's Quiztime: A Study of Online Verification Practices on Twitter. In (HCOMP 2019 Work in Progress/Demos).
- [p2] Sukrit Venkatagiri, Jacob Thebault-Spieker, and Kurt Luther 2018. Verifying Truth from the Ground: Leveraging Human Strengths in the Image Geolocation Process. In (Human-Computer Interaction Consortium 2018).
- [p1] 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>

REFEREED DOCTORAL CONSORTIA

- [dc1] Jacob Thebault-Spieker 2016. Quantifying, Understanding, and Mitigating Crowd Work Bias. In *Fourth Aaai Conference on Human Computation and Crowdsourcing* (HCOMP '16 Doctoral Consortium).

## OTHER RESEARCH ACTIVITIES

RESEARCH CAMPS

CSST: *Summer Research Institute for the Science of Socio-Technical Systems*  
CSST 2019, New Brunswick, NJ, USA, June 18-22, 2019

## 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

*Journals*

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

*Conference Proceedings*

CSCW

CHI

UbiComp

