

# CURRICULUM VITAE: JACOB THEBAULT-SPIEKER

Helen C. White Hall

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## RESEARCH INTERESTS

bias, social computing, crowd work, spatial 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

## EXPERIENCE

- Curr. *University of Wisconsin – Madison*  
Assistant Professor, Information School, 2020 - Present  
Faculty Affiliate, Department of Computer Science, 2022 - Present  
Co-Director, University of Wisconsin – Madison Collaborative Computing Group, 2021 - Present
- 2020 *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

- 2021 Madison Teaching and Learning Excellence program Fellow
- 2020 Special Recognition for Outstanding Reviews, CHI Papers
- 2019 Best Demo/Poster, HCOMP 2019
- 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

## FUNDING

External Funding (Total: \$96,594; Personal Share: \$96,594)

- [G1] Towards Contextualized Road Safety Conditions, Center for Advancing the Safety of Machine Intelligence – Northwestern University, **Jacob Thebault-Spieker** (PI), 2022. Total: \$96,594.

## PUBLICATIONS (Google Scholar Citations: 1472, h-index: 12)

### Refereed Papers in Journals

- [J5] Molly G. Hickman, Viral Pasad, Harsh Kamalesh Sanghavi, **Jacob Thebault-Spieker**, and Sang Won Lee 2021. Understanding Wikipedia Practices Through Hindi, Urdu, and English Takes on an Evolving Regional Conflict. *Proc. ACM Hum.-Comput. Interact.* 5, CSCW1. <https://doi.org/10.1145/3449108>
- [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

- [C9] Jacob Thebault-Spieker, Sukrit Venkatagiri, Naomi Mine, and Kurt Luther 2023. Diverse Perspectives Can Mitigate Political Bias in Crowdsourced Content Moderation. In *Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency* (FAccT '23), 1280–1291. <https://doi.org/10.1145/3593013.3594080>
- [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 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)
- [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, Os Keyes, Daniel Kluver, **Jacob Thebault-Spieker**, Tien Nguyen, Kate Grandprey-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 '18 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)
- [p5] Molly G. Hickman, Viral Pasad, Harsh Sanghavi, **Jacob Thebault-Spieker**, and Sang Won Lee 2020. Wiki HUEs: Understanding Wikipedia Practices Through Hindi, Urdu, and English Takes on Evolving Regional Conflict. In *Proceedings of the 2020 International Conference on Information and Communication Technologies and Development* (ICTD2020). <https://doi.org/10.1145/3392561.3397586>
  - [p4] Jacob Thebault-Spieker, Sukrit Venkatagiri, David Mitchell, Chris Hurt, and Kurt Luther 2019. PairWise: Mitigating Political Bias in Crowdsourced Content Moderation. In *Human Computation Conference 2019 Work-in-Progress/Demos* (HCOMP 2019). (**Best Demo/Poster Award, out of 25**)
  - [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 *Human Computation Conference 2019 Work-in-Progress/Demos* (HCOMP 2019).
  - [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* (HCIC 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 Publications

- [ge1] Kurt Luther, Andrea Kavanaugh, **Jacob Thebault-Spieker**, and Judd Antin 2020. Introduction to the Special Issue on Negotiating Truth and Trust in Socio-Technical Systems.

## OTHER RESEARCH ACTIVITIES

#### Invited Talks

*Wikimedia Research Showcase, Wikimedia Foundation*, January, 2022.  
*Computer Scienc Colloquium, Marquette University*

#### 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 Instructor of Record at University of Wisconsin

*LIS201: The Information Society*.  
 Fall 2020. Spring 2021. Fall 2021. Spring 2022. Fall 2022.  
*CS570: Human Computer Interaction (crosslisted in iSchool)*.  
 Spring 2021. Fall 2021. Spring 2022. Fall 2022.

#### 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.

## ADVISING AND MENTORING

### Graduate Thesis Advisees

Naomi Mine, University of Wisconsin – Madison, Information School  
Yaxuan Yin, University of Wisconsin – Madison, Information School  
Zihan gao, University of Wisconsin – Madison, Information School

### Graduate Thesis Committees

Xiaofei Wei, Ph.D. Information, University of Wisconsin – Madison (Graduated 2022)

### Graduate Research Advisees

Jai Potnuri, University of Wisconsin – Madison, Information School  
Shiyi He, University of Wisconsin – Madison, Information School  
Askar Ashfar, University of Wisconsin – Madison, Information School  
Cole Nelson, University of Wisconsin – Madison, Computer Science  
Sukrit Venkatagiri, Virginia Tech, Computer Science (co-advised as a postdoc with Kurt Luther)

### Undergraduate Research Advisees

Layton Liu, University of Wisconsin – Madison, Information School  
Kevin Lee, University of Wisconsin – Madison, Information School  
David Mitchell (co-advised as a postdoc with Kurt Luther)  
Chris Hurt, Virginia Tech, Computer Science 2018 (co-advised as a postdoc with Kurt Luther)  
Sarwat Kamzi (co-advised as a postdoc with Kurt Luther)  
Efua Akonor (co-advised as a postdoc with Kurt Luther)  
Aliza Camacho (co-advised as a postdoc with Kurt Luther)

## PROFESSIONAL SERVICE

### Journal Editorial Roles

#### Organizing Committees

- 2022 Information Director, Proceedings of the ACM Human-Computer Interaction (PACMHCI)
- 2021 Information Director, Proceedings of the ACM Human-Computer Interaction (PACMHCI)
- 2020 Information Director, Proceedings of the ACM Human-Computer Interaction (PACMHCI)  
CSCW Publications Co-Chair
- 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

- 2021 Program Committee Member - ACM Conference on Fairness, Accountability, and Transparency  
Program Committee Member - IEEE Human Computation Conference
- 2021 CHI AC - Interaction Beyond the Individual subcommittee
- 2018 CHI Late-Breaking Work  
Emoji2018: 1  
Social Media

Workshop on Emoji Understanding and Ap

### UNIVERSITY OF WISCONSIN - MADISON

- 2022 Information School PhD Committee  
Information School Undergraduate Curriculum Task Force  
Senator, Information School, University Senate
- 2021 Information School PhD Committee  
Information School Undergraduate Curriculum Task Force  
Senator, Information School, University Senate
- 2020 Information School PhD Committee  
Information School Undergraduate Curriculum Task Force  
Senator, Information School, University Senate  
Volunteer consultant to UHS User Access Team for COVID 19 testing registration system

### Other Professional Service

- 2020 Review Panelist, National Science Foundation

### Reviewing

#### *Journals*

New Media & Society  
ACM Transactions on Intelligent Systems and Technology (TIST)  
ACM Transactions on Computer-Human Interaction (TOCHI)  
ACM Transactions on Social Computing (TSC)  
Interaction Design and Architecture (IXD&A)

#### *Conference Proceedings*

CSCW  
CHI  
FAccT  
HCOMP  
GROUP  
ICWSM  
UbiComp  
MobileHCI