

CURRICULUM VITAE: JACOB THEBAULT-SPIEKER

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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

- 2022 Special Recognition for Outstanding Reviews, Proceedings of the ACM in Human Computer Interaction, CSCW Track
- 2021 Special Recognition for Outstanding Reviews, CHI Papers
- 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: \$117,388; Personal Share: \$117,388)

- [G2] Experimenting with Diversity Science: Prototyping Research Infrastructure For Studying Biases in Ratings-Based Evaluations, Institute for Diversity Science, — University of Wisconsin – Madison, **Jacob Thebault-Spieker** (PI), 2023. Total: \$20,794. [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: 1511, 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