

# Jacob Thebault-Spieker

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## Research

### *Peer-Reviewed Conference & Journal Papers*

Thebault-Spieker, J., Terveen L., Hecht, B. **In preparation** - Missed Connections: The Geography of Uber Access

Aaron Halfaker, Oliver Keyes, Daniel Kluver, Jacob Thebault-Spieker, Tien T. Nguyen, Kenneth Shores, Anuradha Uduwage, Morten Warncke-Wang. *WWW 2015* – User Session Identification Based on Strong Regularities in Inter-activity Time. *Acceptance Rate: 14.1%*

Thebault-Spieker, J., Terveen, L., Hecht, B. *CSCW 2015* - Avoiding the South Side and the Suburbs: The Geography of Mobile Crowdsourcing Markets *Acceptance Rate: 28.3%*

Thebault-Spieker, J. *Midwest Instructional Computing Symposium 2010* - Can protocol and application layer statistics improve client-server responsiveness?

### *Conference and Seminar Presentations*

Symposium on Urban Informatics Exploring Smarter Cities

*Drexel University, College of Information Science and Technology, June 11, 2013.*

AFS & Kerberos Best Practices Workshop 2009

*Stanford University, OpenAFS, June 3, 2009.*

### *Fields of Research Interest*

Civic engagement, technology for social change, sociotechnical systems, crowdsourcing, mobile computing, collaborative open content communities.

## Education

PhD Student (PhD Candidate as of April 2013). Computer Science, University of Minnesota, 2011 - Present.

B.A. Computer Science, University of Minnesota, Morris, 2011.

B.A. Spanish, University of Minnesota, Morris, 2011.

## Relevant Experience

IBM Watson, Almaden, Research Intern, *Summer 2014.*

*Defined and implemented a research project in the space of grassroots engagement efforts on Twitter. Successfully completed this project* **Skills:** defining a research plan, experimental design, working collaboratively with a team

University of Minnesota, Department of Computer Science, Research Assistant, *2011-Present.*

*I've been the lead developer for over 3 years building a mobile, geographic crowdsourcing application (FolkSource) that is nearing launch. I conducted semi-structured interviews with users in a case-study to understand motivations for using the system.*

**Skills:** Java (Struts), javascript (enyojs), CSS, Phonegap, Semi-structured interviewing

Carnegie Mellon University, Department of Computer Science, REU Student, *Summer 2010*.

*Researched the feasibility of prefetching in Internet Suspend/Resume. Demonstrated that the simple (boot) case does not provide performance improvements.*

**Skills:** C, collaborative research with Dr. Mahadev Satyanarayanan.

University of Minnesota – Morris, Department of Computer Science & OpenAFS, Undergraduate Research Project, *Jan. 2010 - June 2010*.

*Extension of 2009 Google Summer of Code project, researched the use of network and server statistics to optimize server rankings and explored the distribution these statistics within the system.*

**Skills:** C, independently motivated project, collaborative remotely.

## Courses

### CSci 5115: User Interface Design, Evaluation, and Implementation

*Project-driven course, where each group was tasked with designing, developing, and iterating on a group-defined UI project.*

**Skills:** Persona Development, User testing, Usability lab practice, Cognitive Walkthroughs, Paper prototyping.

### CSci 8115: Human-Computer Interaction & User Interface Technology

*Research driven course, with a partnered research project goal. We developed and iterated on a Kinect-based system to support the transition process for transgendered individuals.*

**Skills:** Coding transgendered forum data for definition of system goals (in place of user interviews for anonymity). Iterative development, UI techniques.

### PSY 5108H: Mathematical Models of Human Behavior

*I conducted a literature review focused on the importance of intrinsic motivation in the success of an online open-production community.*

**Skills:** Bayes nets, game theory (including Nash Equilibria), time series, Collective Effort Model, role of intrinsic & extrinsic motivation in effort processes.

## Other Experience

University of Minnesota, Department of Computer Science, Teaching Assistant, 2011.

*I TA'd CS 1902: Structures of Computer Programming II for 2 semesters. This included managing 3 lab sessions per week, and grading homework and exams.*

**Skills:** Lead 3 lab sessions, collaborative course management with a graduate student and the Professor.

Your File System, Contractor, *Summer 2011*.

*Worked on a number of small projects to support one of the primary developers. This included beginning to generalize cloning of AFS volumes.*

**Skills:** C

Google Summer of Code, OpenAFS, Participant, *Summer 2009*.

*Began using network statistics (latency, bandwidth, etc.) in order to improve client server choices. Implemented this in both Linux and Windows.*

**Skills:** C, Independently proposed and driven project, collaborative remotely.

Google Summer of Code, OpenAFS, Participant, *Summer 2008*.

*Implemented GPL-licensed Linux kernel interfaces to handle AFS Remote Procedure Calls (RPCs). Intended to support native Linux interaction with AFS, so AFS wouldn't need to maintain a kernel module.*

**Skills:** C, Independently proposed and driven project, collaborative remotely.

## Courses

**Other Courses Taken:** *Advanced Algorithms, Principles of Database Systems, Foundations of Advanced Networking, and Introduction to Research I & II, Directed Research*

## Honors, Awards, & Fellowships

Undergraduate Research Opportunity Program grant, University of Minnesota, Morris, Fall 2009.

Last updated: January 16, 2015