Jacob Thebault-Spieker

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Research

Peer-Reviewed Conference & Journal Papers

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%**

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

Peer-Reviewed Conference Short & Poster Papers

Under Review - Showing Group Participation for Continued Engagement on Social Networks

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 Developement, 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: March 2, 2015