Daniel A. Epstein

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Education

2012-Present University of Washington
Ph.D. Candidate in Computer Science & Engineering
Areas: Human-Computer Interaction, Ubiquitous Computing
Advisors: James Fogarty, Sean Munson
M.S. Computer Science & Engineering, Winter 2014
Proposed dissertation Spring 2016
Committee: James Fogarty, Sean Munson, David McDonald, Mira Dontcheva, Jessica Hullman

2008-2012 University of Virginia
B.S. Computer Science with Highest Distinction
Advisors: Kevin Skadron, Aaron Bloomfield

Conference Publications

2016 **C9** **Reconsidering the Device in the Drawer: Lapses as a Design Opportunity in Personal Informatics**
Daniel A. Epstein, Jennifer H. Kang, Laura R. Pina, James Fogarty, Sean A. Munson
Conditionally accepted to UbiComp 2016

C8 **Taking 5: Work-Breaks, Productivity, and Opportunities for Personal Informatics for Knowledge Workers**
Daniel A. Epstein, Daniel Avrahami, Jacob T. Biehl
CHI 2016 [Acceptance Rate 23%]

C7 **Crumbs: Lightweight Daily Food Challenges to Promote Engagement and Mindfulness**
Daniel A. Epstein, Felicia Cordeiro, James Fogarty, Gary Hsieh, Sean A. Munson
CHI 2016 [Acceptance Rate: 23%]

C6 **Beyond Abandonment to Next Steps: Understanding and Designing for Life after Personal Informatics Tool Use**
Daniel A. Epstein, Monica Caraway, Chuck Johnston, An Ping, James Fogarty, Sean A. Munson
CHI 2016 [Acceptance Rate: 23%]

2015 **C5** **A Lived Informatics Model of Personal Informatics**
Daniel A. Epstein, An Ping, James Fogarty, Sean A. Munson
UbiComp 2015 [Acceptance Rate: 30%]

C4 **Barriers and Negative Nudges: Exploring Challenges in Food Journaling**
Felicia Cordeiro, Daniel A. Epstein, Edison Thomaz, Elizabeth Bales, Arvind K. Jagannathan, Gregory D. Abowd, James Fogarty.
CHI 2015 [Acceptance Rate: 23%] best paper nominee, top 5%

C3 **From "nobody cares" to "way to go!": A Design Framework for Social Sharing in Personal Informatics**
Daniel A. Epstein, Bradley H. Jacobson, Elizabeth Bales, David W. McDonald, Sean A. Munson
CSCW 2015 [Acceptance Rate: 28%]

2014 **C2** **Taming Data Complexity in Lifelogs: Exploring Visual Cuts of Personal Informatics Data**
Daniel A. Epstein, Felicia Cordeiro, Elizabeth Bales, James Fogarty, Sean A. Munson
DIS 2014 [Acceptance Rate: 26%]

2013 **C1** **Fine-Grained Sharing of Sensed Physical Activity: A Value Sensitive Approach**
Daniel A. Epstein, Alan Borning, James Fogarty
UbiComp 2013 [Acceptance Rate: 23%]

Journal Publication

2016 **J1** **Semi-automated tracking: A Balanced Approach for Self-Monitoring Applications**
Eun Kyoung Choe, Saeed Abdullah, Mashfiqui Rabbi, Edison Thomaz, Daniel A. Epstein, Matthew Kay, Felicia Cordeiro, Gregory D. Abowd, Tanzeem Choudhury, James Fogarty, Bongshin Lee, Mark Matthews, Julie A. Kientz
IEEE Pervasive Computing (in press)

Workshop Organized

2016 **O1** **New Frontiers of Quantified Self 2: Going Beyond Numbers**
Amon Rapp, Federica Cena, Judy Kay, Bob Kummerfeld, Frank Hopfgartner, Till Plumbaum, Jakob Eg Larsen, Daniel A. Epstein, Rúben Gouveia
UbiComp 2016 Workshop

Workshop Publications

2015 **W7** **Personal Informatics in Everyday Life**
Daniel A. Epstein
UbiComp/ISWC 2015 Doctoral School

W6 **Wearables of 2025: Designing Personal Informatics at a Broader Audience**
Daniel A. Epstein, Nicole B. Lee, Elizabeth Bales, James Fogarty, Sean A. Munson
CHI 2015 Workshop (Beyond Personal Informatics: Designing for Experiences with Data)

2014 **W5** **Failures in Sharing Personal Data on Social Networking Sites**
Daniel A. Epstein, James Fogarty, Sean A. Munson
UbiComp 2014 Workshop (Disasters in Personal Informatics: The Unpublished Stories of Failure and Lessons Learned)

W4 **Design Considerations for Socially Sharing Quantified Self**
Daniel A. Epstein, Elizabeth Bales and Sean A. Munson
CHI 2014 Workshop (Beyond Quantified Self: Data for Wellbeing)

2013 **W3** **Improving Personal Informatics Through Social Sharing**
Daniel A. Epstein
UbiComp/ISWC 2013 Doctoral School (Junior Track)

W2 **Examining Obstacles to Sharing Fine-Grained Personal Activity Data**
Daniel A. Epstein and James Fogarty
CHI 2013 Workshop (Personal Informatics in the Wild: Hacking Habits for Health & Happiness)

2012 **W1** **Multi-Granularity Redundancy in Multi-Core SIMT**
Daniel A. Epstein, Kevin Skadron, and Brett H. Meyer (2012).
DFM&Y 2012 (Workshop on Design for Manufacturability and Yield)

Posters

2015 **P2** **Personal Informatics in Everyday Life**
Daniel A. Epstein
UbiComp 2015 Doctoral School

P1 **SIMD Performance and Yield Optimization with Multi-granularity Redundancy**
Daniel A. Epstein, Kevin Skadron, and Brett H. Meyer
DAC 2012 Work-in-Progress

Teaching Experience

University of Washington

2016 Teaching Assistant
Advanced Topics in HCI (CSE 510), James Fogarty. Aided in course design, research project feedback

2015 Teaching Assistant
HCI Capstone (CSE 441), James Fogarty. Aided in course design, project critiques

2014 Head Teaching Assistant
Introduction to HCI (CSE 440), James Fogarty. Aided in course design, lecture preparation, biweekly project critiques, grading

2013-Present Research mentorship
Organized Directed Research Group (HCDE 496/596), with Sean Munson. Mentored masters and undergraduate students on research projects in personal informatics; work from group resulted in C3, C5, C8, W4, with student coauthors on C3, C5, C8.

Students Mentored
Jennifer Kang (CSE & iSchool B.S., coauthor on C9)
King Xia (CSE B.S. honors thesis)
Jennifer Kam (summer research, visiting from Wellsley College)

2013-Present Tutor
Data Structures and Algorithms (CSE 373), Data Abstractions (CSE 332),
Software Design & Implementation (CSE 331), Database Systems Internals (CSE 444)

University of Virginia

2009-2012 Teaching Assistant
Introduction to Programming (CS 1110), Operating Systems (CS 4414),
Game Design (CS 4501), Algorithms (CS 4102), Program and Data Representation (CS 2150)

Professional Experience

Summer 2015 FXPAL, Research Intern
Mentors: Daniel Avrahami, Jacob Biehl
Understanding and designing for breaks taken by knowledge workers during the workday, published in C6

2012-Present University of Washington, Research Assistant, DUB Group
Advisors: James Fogarty, Sean Munson
Exploring how personal informatics fits into people's everyday lifes and practices

2010-2012 University of Virginia, Undergraduate Research Assistant, LAVA Lab
Advisors: Kevin Skadron, Brett Meyer
Examined using redundancy to increase the reliability of processor manufacturing in single-instruction, multiple-data (SIMD) processors

Summer 2011, 2012 Microsoft, Software Development Engineer in Test Intern
Wrote web service test framework for issuing game console commands for all major smartphones

Awards, Honors, and Service

Reviewer
CSCW 2017
CHI 2014-2016
UbiComp 2014-2016
DIS 2016 (special recognition for reviewing)
MobileHCI 2014 & 2015
CHI 2016 Late-Breaking Work Program Committee

Student Volunteer
UbiComp 2013 & 2014
CHI 2013

Seminar Coordinator
DUB Speaker Coordinator, 2015-2016
DUB Food Coordinator, 2013

Awards
Best Paper Nomination, CHI 2015 (for C4)
UbiComp 2015 Travel Grant
UbiComp 2013 Travel Grant
2012 Louis T. Rader UVA CS Departmental award for excellence in service
2011 Louis T. Rader UVA CS Departmental award for excellence in teaching

Invited Talks and Guest Lectures

2016
Behavior Change and Personal Informatics
Guest Lecture, HCDE 419 (Concepts in HCI), University of Washington, April 2016

Using Personal Data in Everyday Life: Actionable Insights, Self-Representation, and Eliciting Support
International Society for Research on Internet interventions (ISRII) Scientific Meeting, April 2016

Experiment Design and Statistics
Guest Lecture, CSE 510 (Advanced Topics in HCI), University of Washington, January 2016

2015
A Lived Informatics Model of Personal Informatics
Barriers and Negative Nudges: Exploring Challenges in Food Journaling
Computer Science & Engineering Industrial Affiliates, University of Washington, October 2015

A Lived Informatics Model of Personal Informatics
FXPAL, September 2015

Personal Informatics in Everyday Life
HCI Seminar, Stanford University, September 2015

Receiving Value and Social Support from Personal Informatics Data
University of Maryland, January 2015

2014
More than Interaction Design: Exposing the Breadth of HCI
Guest Lecture, CS 3205 (HCI in Software Development), University of Virginia, October 2014

Task Analysis
Guest Lecture, CSE 440 (Introduction to HCI), University of Washington, October 2014

2013
Fine-Grained Sharing of Sensed Physical Activity: A Value Sensitive Approach
Computer Science & Engineering Industrial Affiliates, University of Washington, October 2013

Selected Press

2016 New Reasons Why You Should Keep a Food Journal
Wall Street Journal, Sumathi Reddy, May 2016
http://www.wsj.com/articles/new-reasons-why-you-should-keep-a-food-journal-1463419285

2015 Food Journaling not as Easy or Effective as it Should Be: Study
Consumer Affairs, Christopher Maynard, April 2015
https://www.consumeraffairs.com/news/food-journaling-not-as-easy-or-effective-as-it-should-be-study-041715.html

Why People Ditch Food Journal Apps
New York Magazine, Jesse Singal, April 2015
http://nymag.com/scienceofus/2015/04/why-people-ditch-food-journal-apps.html

2014 UW Study Finds Pros and Cons of Fitness Gadgets
King 5 News, July 2014