Daniel A. Epstein

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Education

2012-Present University of Washington
Ph.D. Student in Computer Science & Engineering
Advisors: James Fogarty, Sean Munson
Areas: Human-Computer Interaction, Ubiquitous Computing
M.S. Computer Science & Engineering, Winter 2014
Thesis proposal expected Spring 2016

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

Conference Publications

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, and 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, and James Fogarty
UbiComp 2013 [Acceptance Rate: 23%]

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.)

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 means of improving personal informatics applications through pattern visualization and social sharing

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
CHI 2014-2016
CHI 2016 Late-Breaking Work Program Committee
DIS 2016
UbiComp 2014 & 2015
MobileHCI 2014 & 2015

Student Volunteer
UbiComp 2013 & 2014
CHI 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
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

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