Daniel A. Epstein

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Employment

2018- University of California, Irvine
Assistant Professor
Department of Informatics, Donald Bren School of Information & Computer Sciences
Courtesy appointment, Department of Computer Science
Areas: Human-Computer Interaction, Ubiquitous Computing, Social Computing, Health

Education

2012-2018 University of Washington
Ph.D., Computer Science & Engineering
Advisors: James Fogarty, Sean Munson
Committee: James Fogarty, Sean Munson, David McDonald, Mira Dontcheva, Jessica Hullman
M.S., Computer Science & Engineering, 2014

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

Conference Publications

2018 **C12** **Examining Self-Tracking by People with Migraine: Goals, Needs, and Opportunities in a Chronic Health Condition**
Jessica Schroeder, Chia-Fang Chung, Daniel A. Epstein, Ravi Karkar,
Adele Parsons, Natalia Murinova, James Fogarty, Sean A. Munson
DIS 2018 [Acceptance Rate 23%]   Best Paper Honorable Mention, Top 5% of Submissions

2017 **C11** **Examining Menstrual Tracking to Inform the Design of Personal Informatics Tools**
Daniel A. Epstein, Nicole B. Lee, Jennifer H. Kang, Elena Agapie, Jessica Schroeder,
Laura R. Pina, James Fogarty, Julie A. Kientz, Sean A. Munson
CHI 2017 [Acceptance Rate 25%]   Best Paper Award, Top 1% of Submissions

C10 **TummyTrials: A Feasibility Study of Using Self-Experimentation to Detect Individualized Food Triggers**
Ravi Karkar, Jessica Schroeder, Daniel A. Epstein, Laura R. Pina, Jeffrey Scofield,
James Fogarty, Julie A. Kientz, Sean A. Munson, Roger Vilardaga, Jasmine Zia
CHI 2017 [Acceptance Rate 25%]   Best Paper Honorable Mention, Top 5% of Submissions

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
UbiComp 2016 [Acceptance Rate 24%]

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**

<u>Daniel A. Epstein</u>, 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**

<u>Daniel A. Epstein</u>, 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**

<u>Daniel A. Epstein</u>, An Ping, James Fogarty, Sean A. Munson

UbiComp 2015 [Acceptance Rate: 30%]

C4 **Barriers and Negative Nudges: Exploring Challenges in Food Journaling**

Felicia Cordeiro, <u>Daniel A. Epstein</u>, Edison Thomaz, Elizabeth Bales,
Arvind K. Jagannathan, Gregory D. Abowd, James Fogarty

CHI 2015 [Acceptance Rate: 23%]   Best Paper Honorable Mention, Top 5% of Submissions

C3 **From "nobody cares" to "way to go!": A Design Framework for Social Sharing in Personal Informatics**

<u>Daniel A. Epstein</u>, 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**

<u>Daniel A. Epstein</u>, 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**

<u>Daniel A. Epstein</u>, Alan Borning, James Fogarty

UbiComp 2013 [Acceptance Rate: 23%]

Journal Publications

2018 **J3** **Defining Adherence: Making Sense of Physical Activity Tracker Data**

Lie Ming Tang, Jochen Meyer, <u>Daniel A. Epstein</u>, Kevin Bragg, Lina Engelen, Adrian Bauman, Judy Kay

Proceedings of the ACM: Interactive Mobile, Wearable and Ubiquitous Technologies (IMWUT), Volume 1 Issue 1

2017 **J2** **Friends Don't Need Receipts: The Curious Case of Social Awareness Streams in the Mobile Payment App Venmo**

Monica Caraway, <u>Daniel A. Epstein</u>, Sean A. Munson

Proceedings of the ACM: Human-Computer Interaction, Volume 1 Issue CSCW [Acceptance Rate 27%]

J1 **Semi-automated tracking: A Balanced Approach for Self-Monitoring Applications**

Eun Kyoung Choe, Saeed Abdullah, Mashfiqui Rabbi, Edison Thomaz, <u>Daniel A. Epstein</u>,
Matthew Kay, Felicia Cordeiro, Gregory D. Abowd, Tanzeem Choudhury,
James Fogarty, Bongshin Lee, Mark Matthews, Julie A. Kientz

IEEE Pervasive Computing, Volume 16 Issue 1

Workshops Organized

2018 **O3** **A Short Workshop on Next Steps Toward Long Term Tracking**

Jochen Meyer, <u>Daniel A. Epstein</u>, Parisa Eslambolchilar, Judy Kay, Lie Ming Tang

CHI 2018 Workshop

2017   O2   New Frontiers of Quantified Self 3: Exploring Understudied Categories of Users
Amon Rapp, Federica Cena, Judy Kay, Bob Kummerfeld, Frank Hopfgartner,
Till Plumbaum, Jakob Eg Larsen, <u>Daniel A. Epstein</u>, Rúben Gouveia
UbiComp 2017 Workshop

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, <u>Daniel A. Epstein</u>, Rúben Gouveia
UbiComp 2016 Workshop

Workshop Publications

2017   W9   Exploring Opportunities for Storytelling with Everyday Personal Data
<u>Daniel A. Epstein</u>, James Fogarty, Sean A. Munson
CHI 2017 Workshop (Quantified Data & Social Relationships)

2017   W8   Exploring New Design Directions for Menstrual Tracking Technology
<u>Daniel A. Epstein</u>, Nicole B. Lee, Jennifer H. Kang, Elena Agapie, Jessica Schroeder,
Laura R. Pina, James Fogarty, Julie A. Kientz, Sean A. Munson
CHI 2017 Workshop (Hacking Women's Health)

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

**   W6   Wearables of 2025: Designing Personal Informatics at a Broader Audience**
<u>Daniel A. Epstein</u>, 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
<u>Daniel A. Epstein</u>, 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**
<u>Daniel A. Epstein</u>, Elizabeth Bales and Sean A. Munson
 CHI 2014 Workshop (Beyond Quantified Self: Data for Wellbeing)

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

**   W2   Examining Obstacles to Sharing Fine-Grained Personal Activity Data**
<u>Daniel A. Epstein</u> 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
<u>Daniel A. Epstein</u>, Kevin Skadron, and Brett H. Meyer (2012).
DFM&Y 2012 (Workshop on Design for Manufacturability and Yield)

Teaching Experience

University of Washington

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

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

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

2013-Present Research mentorship, Directed Research Groups (HCDE 496/596)
With Sean Munson from 2013 to 2015. Mentored 19 masters and undergraduate students over 5 quarters. Work from group resulted in C3, C5, C6, W4, with student coauthors on C3, C5, C6.

Individual Students mentored outside Directed Research Groups
Monica Caraway (HCDE M.S., coauthor on C6, first author on J2)
Sol Choi (HCDE B.S.)
Jennifer Kang (CSE & iSchool B.S., coauthor on C9, C11, W8)
Tejas Bharadwaj (summer research, visiting from Bellevue High School)
King Xia (CSE B.S. honors thesis)
Jennifer Kam (summer research, visiting from Wellsley College)

2013-2016 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 2017 Adobe, Research Intern, Creative Intelligence Lab
Mentor: Mira Dontcheva
Designing for telling stories of accomplishment with personal data.

Summer 2015 FXPAL, Research Intern
Mentors: Daniel Avrahami, Jacob Biehl
Understanding and designing for breaks taken by knowledge workers, published in C8.

2012-Present University of Washington, Research Assistant, DUB Group
Advisors: James Fogarty, Sean Munson
Exploring how personal informatics can align with people's everyday experiences.

2010-2012 University of Virginia, Undergraduate Research Assistant, LAVA Lab
Advisors: Kevin Skadron, Brett Meyer
Increasing manufacturing reliability in single-instruction, multiple-data (SIMD) processors.

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

Awards, Honors, and Service

Program Committees
2019 CHI (Subcommittee - Understanding People: Theory, Concepts, and Methods)
2018 CHI Workshop on Data Visualization on Mobile Devices
2017 PervasiveHealth
CHI Workshop on Quantified Data and Social Relationships
2016 CHI Late-Breaking Work
HealthWear
2015 UbiComp Workshop on New Frontiers on Quantified Self

Reviewing
2014-2018 CHI
2017-2018 CSCW
2014-2018 UbiComp/IMWUT
2016-2018 DIS
2017 UIST
2014-2015 MobileHCI
Additional Journals including TiiS, IEEE Pervasive, Human-Computer Interaction, and Foundations & Trends in Human Computer Interaction
Special recognitions for reviewing at DIS 2016, CSCW 2017, CHI 2017, DIS 2017, CHI 2018, DIS 2018

Student Volunteering
2017 UbiComp/ISWC Student Volunteer Chair
2016 UbiComp/ISWC
UIST Program Committee Meeting
2014 UbiComp/ISWC
2013 UbiComp/ISWC
CHI

Other Service
2016-2017 DUB Student Coordinator
2013-2017 UW ACM International Collegiate Programming Contest (ICPC) Coach
2013 DUB Food Coordinator

Awards
2018 Best Paper Honorable Mention, DIS (for C12, top 5%)
2017 Adobe Research Fellowship Finalist
Best Paper Award, CHI (for C11, top 1%)
Best Paper Honorable Mention, CHI (for C10, top 5%)
2015 Best Paper Honorable Mention, CHI (for C4, top 5%)
UbiComp Travel Grant
2013 UbiComp 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

2018   Everyday Personal Informatics
University of Illinois, Urbana-Champaign, April 2018
University of Minnesota, Twin Cities, March 2018
University of California, Irvine, March 2018
Indiana University, Bloomington, March 2018
University of Chicago, March 2018
University of Utah, February 2018
University of Rochester, February 2018
Pennsylvania State University, January 2018
FXPAL, January 2018
University of California, Santa Cruz, January 2018

2017   Personal Tracking in Everyday Life
Fitbit, July 2017

Everyday Personal Informatics
Guest Lecture, HCDE 419 (Concepts in HCI), University of Washington, May 2017

2016   Crumbs: Lightweight Daily Food Challenges to Promote Engagement and Mindfulness
Computer Science & Engineering Industrial Affiliates, University of Washington, October 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

2017   Are You Making This Top Tracker Mistake? Here's How to Stop
Fitbit Blog (Danielle Kosecki, October 2017)
https://blog.fitbit.com/memory-techniques

Chances Are Your Period App is B.S.
Cosmopolitan (Elizabeth Narins, May 2017)
http://www.cosmopolitan.com/health-fitness/a9598638/period-app-accuracy/

Do Period Tracking Apps Work? They Might Not be as Accurate as You Think
Bustle (Georgina Lawton, May 2017)
https://www.bustle.com/p/do-period-tracking-apps-work-they-might-not-be-as-accurate-as-you-think-55743

The Awful Pinkness of Period Apps
The Atlantic (Sarah Zhang, May 2017)
https://www.theatlantic.com/health/archive/2017/05/period-apps-pink/525207/

How to Choose a Period Tracking App that Actually Works for You
Health.com (Amanda MacMillan, May 2017)
http://www.health.com/sexual-health/period-tracker-app-complaints
Period tracking apps often 'disappoint'
Gynecology and Technology (May 2017)
http://www.figo.org/news/period-tracking-apps-often-'disappoint'-0015561

Period-Tracking Apps get Failing Grade: They're Not Accurate. And They're Way Too Pink.
STAT News (Usha Lee McFarling, May 2017)
https://www.statnews.com/2017/05/02/period-tracking-apps-flaws/

2016   From the Community: What Happens When You Take Off Your Fitness Tracker?
Chicago Tribune (Advocate Christ Medical Center, September 2016)
http://www.chicagotribune.com/suburbs/daily-southtown/community/chi-ugc-article-what-happens-when-you-take-off-your-fitness-t-2016-09-16-story.html

This is What Happens When You Stop Using Your Fitness Tracker
Men's Fitness (Brittany Smith, September 2016)
http://www.mensfitness.com/life/gearandtech/what-happens-when-you-stop-using-your-fitness-tracker

From Guilt to Relief: The Emotional Impact of Giving Up Activity Tracking
Yahoo! News, Digital Trends (September 2016)
https://www.yahoo.com/news/guilt-relief-emotional-impact-giving-070948996.html

Why You Shouldn't Feel Guilty About Ditching Your Fitbit
Time.com (Amanda MacMillan, September 2016)
http://time.com/4500481/fitbit-fitness-tracker/

Feel Guilty About Ditching Your Fitbit? You're Not Alone
Health.com (Amanda MacMillan, September 2016)
http://www.health.com/fitness/fitbit-use-guilt

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)