

Employment




2018-Present 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, 2018
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, 2012
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**
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 Honorable Mention, Top 5% of Submissions
- 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 Publications

- 2018 **J3 Defining Adherence: Making Sense of Physical Activity Tracker Data**
 Lie Ming Tang, Jochen Meyer, Daniel A. Epstein, 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, Daniel A. Epstein, 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, Daniel A. Epstein,
 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

Dissertation

2018 **Everyday Personal Informatics**
Daniel A. Epstein

Book Chapters

2019 **Monitoring Menses: Design Based Investigations of Menstrual Tracking Applications**
Sarah Fox, Daniel A. Epstein
Chapter in The Handbook of Critical Menstruation Studies, Palgrave MacMilan (In Press)

Workshops Organized

- 2018 **O3 A Short Workshop on Next Steps Toward Long Term Tracking**
Jochen Meyer, Daniel A. Epstein, 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, Daniel A. Epstein, 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, Daniel A. Epstein, Rúben Gouveia
UbiComp 2016 Workshop

Workshop Publications

- 2019 **W11 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
CHI 2019 Symposium (Workgroup on Interactive Systems in Healthcare)
- 2018 **W10 Helping People Find Support through Data: Reflections from Four Projects on Sharing Personal Informatics Data Online**
Daniel A. Epstein
CSCW 2018 Workshop (Social Issues in Personal Informatics)
- 2017 **W9 Exploring Opportunities for Storytelling with Everyday Personal Data**
Daniel A. Epstein, James Fogarty, Sean A. Munson
CHI 2017 Workshop (Quantified Data & Social Relationships)
- W8 Exploring New Design Directions for Menstrual Tracking Technology**
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 Workshop (Hacking Women's Health)
- 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)

Mentorship and Advising

University of California, Irvine

- 2018-Present** Undergraduate Honors Thesis Mentorship
 Griffin D’Haenens (Computer Science B.S., Winter & Spring 2019)
 Zhaomin Li (Software Engineering B.S., Winter & Spring 2019)

Undergraduate Research Mentorship

Danny Beltran (Informatics B.S., Winter & Spring 2019)
 Kimberly Flores (Informatics B.S., Winter & Spring 2019)
 Yuqi Huai (Computer Science & Software Engineering B.S., Spring 2019)
 Siyun Ji (Informatics & Computer Science B.S., Spring 2019)
 Liangze Zhu (Computer Science B.S., Winter 2019)

Ph.D. Advancement Committees

Mayara Costa Figueiredo (Spring 2019)
 Mustafa Hussain (Spring 2019)
 Ted Grover (Spring 2019)

Ph.D. Comprehensive Exam Committees

Mayara Costa Figueiredo (Fall 2018)

University of Washington

2013-2018 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, Winter 2016-Spring 2017)

Sol Choi (HCDE B.S., Fall 2016)

Jennifer Kang (CSE & iSchool B.S., coauthor on C9, C11, W8, Winter 2016-Summer 2016)

Tejas Bharadwaj (summer research, visiting from Bellevue High School, Summer 2015)

King Xia (CSE B.S. honors thesis, Fall 2014-Spring 2015)

Jennifer Kam (summer research, visiting from Wellesley College, Summer 2014)

Fundraising

External Fundraising

2019 NSF CRII CHS #1850389

\$174,999 Examining a Multimodal Approach to Lower the Burden of Food Journaling

2,000€ Clue Research Innovation Program

(≈\$2,260) Understanding and Designing for Fertility Tracking

With Yunan Chen and H. Irene Su

Internal Fundraising

2019 Academic Senate Council on Research, Computing, and Libraries (CORCL)

\$2,885 Designing Data-Driven Stickers for Support and Advice on Social Media

Teaching Experience

University of California, Irvine

2018-Present Instructor

User Interaction Software (IN4MATX 133, Fall 2018),

Introduction to Ubiquitous Computing (IN4MATX 241, Winter 2019)

University of Washington

2014-2016 Teaching Assistant

Advanced Topics in HCI (CSE 510, Winter 2016), HCI Capstone (CSE 441, Spring 2015),

Introduction to HCI (CSE 440, Autumn 2014)

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.
- 2012-2018** 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

Service, Awards, and Honors

- Program Committees
- 2020** CHI (Subcommittee – Health)
- 2019** PervasiveHealth (Senior Program Committee)
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
- 2014-2019** CHI
- 2017-2018** CSCW
- 2014-2019** UbiComp/IMWUT
- 2016-2019** DIS
- 2017** UIST
- 2014-2015** MobileHCI
- Additional Journals including TiiS, IJHCI, IEEE Pervasive, JMIR, Human-Computer Interaction, and Foundations & Trends in Human Computer Interaction
13 special recognitions for a review for DIS, UbiComp/IMWUT, CSCW, or CHI
- University and Departmental Service
- University of California, Irvine
- 2019** Faculty Hiring Committee, Human-Computer Interaction and Design
- 2018-Present** Informatics Bachelor's Curriculum Committee
- 2019-Present** HCIC representative

- University of Washington
- 2016-2017** DUB Student Coordinator
- 2013-2017** UW ACM International Collegiate Programming Contest (ICPC) Coach
- 2013** DUB Food Coordinator
- Other Service
- Student Volunteering
- 2017** UbiComp/ISWC Student Volunteer Chair
- 2016** UbiComp/ISWC
UIST Program Committee Meeting
- 2014** UbiComp/ISWC
- 2013** UbiComp/ISWC
CHI
- Awards
- 2019** Schloss Dagstuhl Travel Grant (for Dagstuhl Seminar 19292, Mobile Data Visualization)
- 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

- 2019** Finding Support Through Personal Informatics Data
Guest Lecture, CS 124 (User Interfaces and User Experience), Pomona College, April 2019
- 2018** Everyday Personal Informatics
Guest Lecture, ICS H197 (Honors Seminar), University of California, Irvine, November 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

- 2018** Period Tracking Apps Taught Me More About My Flow Than Sex Ed Ever Did
Mashable (Amanda Luz Herring Santiago, September 2018)
<https://mashable.com/article/period-tracking-apps-sex-ed/>
- Drug Deals and Breakups: Venmo Social Feed Rankles Privacy Advocates
The Wall Street Journal (Peter Rudegeair, August 2018)
<https://www.wsj.com/articles/drug-deals-and-breakups-venmo-social-feed-rankles-privacy-advocates-1533639600>
- 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)