

Jessica Schroeder
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Research Interests

My research focuses on designing, developing, and evaluating novel methods and tools to help people better understand and manage chronic health conditions. I am particularly interested in supporting people in collecting, analyzing, and interpreting personal informatics data to address their health goals, as well as examining and overcoming challenges in patient-provider collaboration with patient-generated data.

Education

University of Washington (9/2014—Present)

Seattle, WA

PhD Student in Computer Science & Engineering

Advisors: James Fogarty and Sean Munson

M.S. in Computer Science & Engineering earned December 2016

Current GPA of 3.9

Pomona College (8/2010—5/2014)

Claremont, CA

Computer Science Major with Neuroscience Experience

GPA of 3.88

University of Edinburgh (8/2012—12/2012)

Edinburgh, Scotland

GPA of 3.88

Publications

Jessica Schroeder, Chelsey Wilks, Kael Rowan, Arturo Toledo, Ann Paradiso, Mary Czerwinski, Gloria Mark, Marsha M. Linehan. (2018). Pocket Skills: A Conversational Mobile Web App To Support Dialectical Behavioral Therapy. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2018)*. In Press.

Ravi Karkar, **Jessica Schroeder**, Daniel Epstein, Laura Pina, Jeffrey Scofield, James Fogarty, Julie Kientz, Sean Munson, Roger Vilardaga, Jasmine Zia. (2017). TummyTrials: A Feasibility Study of Using Self-Experimentation to Detect Individualized Food Triggers. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017)*. <https://doi.org/10.1145/3025453.3025480>

Chia-Fang Chung, Elena Agapie, **Jessica Schroeder**, Sonali Mishra, James Fogarty, Sean Munson. (2017). When Personal Tracking Becomes Social: Examining the Use of Instagram for Healthy Eating. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017)*. <https://doi.org/10.1145/3025453.3025747>

Daniel Epstein, Nicole Lee, Jennifer Kang, Elena Agapie, **Jessica Schroeder**, Laura Pina, James Fogarty, Julie Kientz, Sean Munson. (2017). Examining Menstrual Tracking to Inform the Design of Personal Informatics Tools. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017)*. <https://doi.org/10.1145/3025453.3025635>

Jessica Schroeder, Jane Hoffswell, Chia-Fang Chung, James Fogarty, Sean Munson, Jasmine Zia. (2017). Supporting Patient-Provider Collaboration to Identify Individual Triggers using Food and Symptom Journals. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2017)*. <http://doi.acm.org/10.1145/2998181.2998276>

Jasmine Zia, Chia-Fang Chung, **Jessica Schroeder**, Sean Munson, Julie Kientz, James Fogarty, Elizabeth Bales, Jeanette Schenk, Margaret Heitkemper. (2016). The Feasibility, Usability, and Perceived Clinical Utility of Traditional Paper Food and Symptom Journals for Patients with Irritable Bowel Syndrome. *Neurogastroenterology and Motility*. <http://doi.org/10.1111/nmo.12935>

Jasmine Zia, **Jessica Schroeder**, Sean Munson, James Fogarty, Linda Nguyen, Pamela Barney, Margaret Heitkemper, Uri Ladabaum. (2016). Feasibility and Usability Pilot Study of a Novel Irritable Bowel Syndrome Food and Gastrointestinal Symptom Journal Smartphone App. *Clinical and Translational Gastroenterology*. <http://doi.org/10.1038/ctg.2016.9>

Jamie L. Crawford, Cheng Guo, **Jessica Schroeder**, Rosa I. Arriaga, Jennifer Mankoff. (2014). Is it a Question of Trust?: How Search Preferences Influence Forum Use. *PervasiveHealth 2014*. 118-125. <http://dx.doi.org/10.4108/icst.pervasivehealth.2014.254988>

Federica Sarti, Zhenjie Zhang, **Jessica Schroeder**, Lu Chen. (2013). Rapid Suppression of Inhibitory Synaptic Transmission by Retinoic Acid. *Journal of Neuroscience*, 33(28): 11440-11450. <http://doi.org/10.1523/JNEUROSCI.1710-13.2013>

Federica Sarti, **Jessica Schroeder**, Jason Aoto, Lu Chen. (2012). Conditional RARa Knockout Mice Reveal Acute Requirement for Retinoic Acid and RARa in Homeostatic Plasticity. *Frontiers in Molecular Neuroscience*, 5(16). <http://doi.org/10.3389/fnmol.2012.00016>

Awards/Honors

NSF GRFP Awardee (2016)
Marilyn Fries Endowed Regental Fellowship Recipient (2014)
ARCS Foundation Fellow (2014)
Harvey Mudd Computer Science Clinic Team Award Winner (2014)
Pomona College Marshall and Rhodes Scholarship Nominee (2013)
Six-Time Pomona College Scholar (2010-2013)
Grace Hopper Scholarship Recipient (2013)
DREU-CRAW Participant (2013)
National Merit Scholar (2010)

Talks

Supporting Patient-Provider Collaboration to Identify Individual Triggers Using Food and Symptom Journals. Session: Human Computer Interaction and Self-Tracking. *University of Washington Computer Science & Engineering Affiliates*. October 2016.

Workshop Publications

Supporting Patient-Provider Collaboration to Identify Individual Triggers using Food and Symptom Journals. **Jessica Schroeder**, Jane Hoffswell, Chia-Fang Chung, James Fogarty, Sean Munson, and Jasmine Zia. *Workshop on Interactive Systems in Healthcare* (CHI 2017).

Supporting Patient-Provider Communication and Relationships with Personal Informatics Data. Chia-Fang Chung, **Jessica Schroeder**, Jasmine Zia, James Fogarty, Julie A. Kientz, and Sean A. Munson. *Workshop on Quantified Data and Social Relationships* (CHI 2017).

Hypothesis Formation and Hypothesis Testing: Design Challenges in Self-Experimentation. Ravi Karkar, **Jessica Schroeder**, James Fogarty, Julie A. Kientz, Sean A. Munson, and Jasmine Zia. *Digital Health & Self-Experimentation Workshop* (CHI 2017).

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. *Hacking Women's Health* (CHI 2017).

Using Personal Data in Everyday Life: Self-Experimentation in Personalized Health. Ravi Karkar, **Jessica Schroeder**, Jasmine Zia, Roger Vilardaga, James Fogarty, Sean A. Munson, and Julie A. Kientz. *Symposium on Use of Patient-Generated Data Beyond Self-Regulation* (ISRII 2016).

The Feasibility, Usability, and Perceived Clinical Utility of Traditional Paper Food and Symptom Journals for Patients with Irritable Bowel Syndrome. Jasmine Zia, Chia-Fang Chung, **Jessica Schroeder**, Jeanette Schenk, Sean A. Munson, Julie A. Kientz, James Fogarty, and Margaret Heitkemper. *The Federation of Neurogastroenterology & Motility*.

Posters

Examining Self-Tracking by People with Migraine: Goals, Needs, and Opportunities in a Chronic Health Condition. *University of Washington Computer Science & Engineering Affiliates*. November 2017.

Supporting Patient-Provider Collaboration to Identify Individual Triggers Using Food and Symptom Journals. *University of Washington Computer Science & Engineering Affiliates*. October 2016.

Personal Guidance on Individualized Food Triggers for IBS Patients. *University of Washington Computer Science & Engineering Affiliates*. October 2015.

Personal Guidance on Individualized Food Triggers for IBS Patients. *Intel Science and Technology Center for Pervasive Computing Retreat*. August 2015.

Teaching Experience

Teaching Assistant, CSE 510: Advanced Topics in HCI (Winter 2018)

Professor: James Fogarty. Helped with assignment design and project critique.

Writing Fellow, Pomona Writing Center (August 2011—May 2014)

Appointed position to work with other students to improve the content, organization, and mechanics of their academic papers, including essays, personal statements, and science-specific writing. Hosted workshops to teach students how to write lab reports, so they gain experience in writing papers for scientific journals. As Senior Science Writing Fellow for the 2013/2014 academic year, I oversaw improvements the Writing Center made to support scientific writing, including training Fellows to help students with scientific writing.

Professional Experience

Research Intern, Microsoft Research (Summer 2017)

Mentor: Mary Czerwinski. Investigating how mobile tools can support mental health patients with high clinical complexity.

Project Manager, Harvey Mudd Clinic (August 2013—May 2014)

Project manager for a senior capstone project with Expedia, Inc.

Undergraduate Research Assistant, Carnegie Mellon HCII (Summer 2013)

Mentor: Jennifer Mankoff's. Investigating how website augmentation to help users of a chronic illness forum find credible and useful information more quickly.

Research Intern, Stanford School of Medicine (Summers 2011 and 2012)

Mentor: Lu Chen. Neuroscience research at the Conte Center for Neuroscience Research.

Undergraduate Research Assistant, Pomona College (Spring of 2012)

Mentor: Andre Cavalcanti. Developed a web application to find fusion genes, which have implications in certain kinds of cancer.

Previous Work, Service, and Leadership

Reviewer (Fall 2016—Present)

Reviewed for the ACM Conference on Human Factors in Computing Systems (CHI 2017 and 2018), the ACM Conference on Computer Supported Cooperative Work (CSCW 2017), and the Conference on Designing Interactive Systems (DIS 2018)

HCI Visit Day Coordinator, UW Computer Science & Engineering (Winter 2018)

Coordinated one-on-ones with staff and current grad students; organized afternoon activity.

Graduate Student Admissions Volunteer, UW Computer Science & Engineering (Fall 2016)

Reviewed graduate student applications to advise on admissions.

New Graduate Orientation Leader, UW Computer Science & Engineering (Fall 2015)

Organized orientation for the new computer science graduate students at the University of Washington. Coordinated talks from student organizations, grad students, and every professor teaching a graduate course in the academic year.

Class Representative, University of Edinburgh Informatics Department (Fall 2012)

Acted as a liaison between staff and students to help voice complaints, deliver suggestions, and learn about and improve the Informatics Program.

Volunteer, Miscellaneous Organizations (Fall of 2008—Present)

Participated in myriad volunteer opportunities including Equality California/the Human Rights Campaign; Organization for Special Needs Families; Pomona College Draper Center; AmeriCorps Jumpstart Little Readers Program; Go, Girl, Go!