Jessica Schroeder
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Research Interests

I am interested in helping patients and their healthcare providers collect, analyze, and interpret patient-generated health data. I'm particularly interested in designing, developing, and evaluating tools that can support patient-provider collaboration in the interpretation of patient-generated data.

Education

University of Washington (9/2014—Present) **Seattle, WA**
PhD Student in Computer Science & Engineering
Advisor: James Fogarty
Current GPA of 3.88

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, 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)*. To Appear.

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*. In Press.

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 Retionic 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.

Workshops

Using Personal Data in Everyday Life: Self-Experimentation in Personalized Health. *Symposium on Use of Patient-Generated Data Beyond Self-Regulation.* International Society for Research on Internet Interventions (ISRII 2016).

Posters

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.

Previous Work, Volunteering, and Leadership

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.

Project Manager, Harvey Mudd Clinic (August 2013—May 2014)
The Harvey Mudd Clinic Project is a capstone project in which students work on teams to develop applications for external clients. Previous clients have included Walt Disney Studios, Intel, Amazon.com, and other prominent technical companies. The Project Manager is responsible for understanding the scope of the project, coordinating assignments, and ensuring that the team stays on course and is able to make the necessary progress to ensure the successful development of the application by the end of the year-long project.

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 was in charge of improvements the Writing Center made to support scientific writing, including training Fellows to help students with scientific writing.

Undergraduate Research Assistant, Carnegie Mellon University (Sumer 2013)
Worked in Professor Jennifer Mankoff's lab in the HCII on a website augmentation to help users of a chronic illness forum find credible and useful information more quickly.

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.

Research Intern, Stanford School of Medicine (Summers 2011 and 2012)
Worked as a full-time student intern with a graduate student in Dr. Lu Chen's lab in the Conte Center for Neuroscience Research.

Undergraduate Research Assistant, Pomona College (Spring of 2012)
Worked in Professor Andre Cavalcanti's Bioinformatics lab to develop a web application that found fusion genes, which have implications in certain kinds of cancer.

Volunteer (Fall of 2008—Present)
Participated in volunteer opportunities including Rebuilding Together; Equality California/the Human Rights Campaign; Organization for Special Needs Families; Pomona College Draper Center; AmeriCorps Jumpstart Little Readers Program; Go, Girl, Go!; CHI Reviewer (2017)