

Yasha S. Iravantchi

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Research Interests

Human-Computer Interaction (HCI), Novel Sensing Methods, eHealth

Education

University of Michigan, Ann Arbor, MI *Sep 2019 to Present*
Ph.D. Student, Computer Science and Engineering
Advisor: Alanson Sample

Harvard College, Cambridge, MA *May 2014*
S.B., Engineering Sciences:
Electrical Engineering & Biomedical Engineering

Professional Experience

Design Specialist in Electrical Engineering *Jun 2014 to Jun 2017*
Active Learning Labs, Harvard University SEAS
Cambridge, MA

Product Design and Engineering Intern *Summers 2009-2012*
Design Catapult, Inc.
Fountain Valley, CA

Publications

6. Yang Zhang, **Yasha Iravantchi**, Haojian Jin, Swarun Kumar, and Chris Harrison. 2019. Sozu: Self-Powered Radio Tags for Building-Scale Activity Sensing. In *Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology (UIST '19)*, 2019
5. **Yasha Iravantchi**, Yang Zhang, Evi Bernitsas, Mayank Goel, Chris Harrison. Interferi: Gesture Sensing using On-Body Acoustic Interferometry. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19)*, 2019 - **Best Paper Honorable Mention Award**
4. **Yasha Iravantchi**, Mayank Goel, Chris Harrison. BeamBand: Hand Gesture Sensing with Ultrasonic Beamforming. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19)*, 2019
3. Sunyoung Kim, **Yasha Iravantchi**, Krzysztof Z. Gajos. SwellFit: Developing a Wearable Sensor for Monitoring Peripheral Edema. In *Proceedings of the 52nd Hawaii International Conference on System Sciences (HICSS-52)*, 2019
2. Sunyoung Kim, **Yasha Iravantchi**, Krzysztof Z. Gajos, Barbara Grosz. SwellFit: a Wearable Sensor for Patients with Congestive Heart Failure. In *Proceedings of the Workshop on Interactive Systems in Healthcare (WISH) 2016*, 2016.
1. Sunyoung Kim, **Yasha Iravantchi**, Krzysztof Z. Gajos, Barbara Grosz. Exploring Opportunities for Social Infrastructure in Congestive Heart Failure Management. In *Proceedings of the CSCW 2015 workshop on Moving Beyond e-Health and the Quantified Self*, 2015

Invited Talks	<p>2. <i>"Labs in the Wild": Teaching Signal Processing Using Wearables and Jupiter Notebooks in the Cloud</i>. SciPy Conference 2016, Austin, TX</p> <p>1. <i>Wearable Signal Processing Using Docker Notebook Containers on AWS</i>. JupyterDays Boston 2016, Cambridge, MA</p>
Teaching Experience	<p>Teaching Fellow:</p> <p>ES 155 Biological Signal Processing (Spring 2016, Fall 2016)</p> <p>ES 50 Introduction to Electrical Engineering (Spring 2013, Spring 2014)</p> <p>BE 110 Physiological Systems Analysis (Fall 2013)</p> <p>Course Assistant:</p> <p>ES 52 The Joy of Electronics - Part I (AY 14, 15, 16)</p> <p>ES 96 Engineering Problem Solving and Design Project (AY 14, 15, 16)</p> <p>ES 100 Engineering Design Projects (AY 14, 15, 16)</p> <p>ES 151 Applied Electromagnetism (Spring 2016)</p>
References	<p>Alanson Sample Associate Professor in Electrical Engineering and Computer Science Interactive, Sensing and Computing Group University of Michigan e: apsample@umich.edu</p> <p>Krzysztof Z. Gajos Gordon McKay Professor of Computer Science Intelligent Interactive Systems Group Harvard University SEAS e: kgajos@seas.harvard.edu</p> <p>Sunyoung Kim Assistant Professor of Library and Information Science Rutgers University e: sunyoung.kim@rutgers.edu</p>
Community Service	<p>Student Volunteer: ACM CHI Conference on Human Factors in Computing, April 2018</p>
Languages	<p>Computer Languages: C, MatLab, LaTeX, HTML, PHP, Java, JavaScript, Python</p> <p>Human Languages: English (Native), Persian (Native), Spanish (Previously Fluent)</p>