

## Yasha S. Iravantchi

CONTACT INFORMATION	5000 Forbes Ave. Pittsburgh, PA 15213	<a href="http://yasha.xyz">http://yasha.xyz</a> <a href="mailto:ysi@cmu.edu">ysi@cmu.edu</a>
RESEARCH INTERESTS	Human-Computer Interaction (HCI), Wearables, Ubiquitous Computing, Sensors, Health	
EDUCATION	<b>Carnegie Mellon University</b> , Pittsburgh, PA Ph.D. Student, <a href="#">Human-Computer Interaction</a>	August 2017 to present
	<b>Harvard University</b> , Cambridge, MA S.B., <a href="#">Engineering Sciences</a> (Tracks: Electrical Engineering/Biomedical Engineering)	May 2014
PROFESSIONAL EXPERIENCE	<b>Design Specialist in Electrical Engineering</b> Active Learning Labs, Harvard University SEAS Cambridge, MA	June 2014 to July 2017
	<b>Product Design and Engineering Intern</b> Design Catapult, Inc. Fountain Valley, CA	Summers 2009-2012
RESEARCH EXPERIENCE	<b>Research Affiliate</b> Intelligent Interactive Systems Group, Harvard University SEAS Supervisor: Prof. Krzysztof Z. Gajos	June 2013 to Jan 2017
PUBLICATIONS	<ol style="list-style-type: none"><li>Sunyoung Kim, <b>Yasha Iravantchi</b>, Krzysztof Z. Gajos, and Barbara Grosz. SwellFit: a Wearable Sensor for Patients with Congestive Heart Failure. In <i>Proceedings of the Workshop on Interactive Systems in Healthcare (WISH) 2016</i>, 2016.</li><li>Sunyoung Kim, <b>Yasha Iravantchi</b>, Krzysztof Z. Gajos, and Barbara Grosz. Exploring Opportunities for Social Infrastructure in Congestive Heart Failure Management. In <i>Proceedings of the CSCW 2015 workshop on Moving Beyond e-Health and the Quantified Self</i>, 2015.</li></ol>	
INVITED TALKS	<i>"Labs in the Wild": Teaching Signal Processing Using Wearables and Jupyter Notebooks in the Cloud</i> (Talk) <ul style="list-style-type: none"><li>SciPy Conference, Austin, TX</li></ul> <i>Wearable Signal Processing Using Docker Notebook Containers on AWS</i> (Talk) <ul style="list-style-type: none"><li>JupyterDays Boston, Cambridge, MA</li></ul>	
		July 2016 Mar 2016
TEACHING EXPERIENCE	<b>Course Support</b> ES 96 - Engineering Problem Solving and Design Project Instructor: Varies by semester School of Engineering and Applied Sciences, Harvard University	AY 2014-15, AY 2015-16, AY 2016-17
	<b>Course Support</b> ES 100 - Engineering Design Projects Instructor: Prof. Rob Wood School of Engineering and Applied Sciences, Harvard University	AY 2014-15, AY 2015-16, AY 2016-17
	<b>Teaching Fellow</b> ES 155 - Biological Signal Processing Instructor: Prof. Demba Ba School of Engineering and Applied Sciences, Harvard University	Spring 2016, Fall 2016
	<b>Course Support</b> ES 52 - The Joy of Electronics - Part I Instructor: David Abrams School of Engineering and Applied Sciences, Harvard University	AY 2014-15, AY 2015-16, AY 2016-17

	<b>Course Assistant</b> <span style="float: right;">Spring 2016</span> ES 151 - Applied Electromagnetism Instructor: Mohamed Abouzahra, Ph.D. and Joseph Usoff, Ph.D. School of Engineering and Applied Sciences, Harvard University
	<b>Teaching Fellow</b> <span style="float: right;">Spring 2013, Spring 2014</span> ES 50 - Introduction to Electrical Engineering Instructor: Profs. Marko Loncar and Evelyn Hu School of Engineering and Applied Sciences, Harvard University
	<b>Teaching Fellow</b> <span style="float: right;">Fall 2013</span> BE 110 - Physiological Systems Analysis Instructor: Prof. Daniel Merfeld School of Engineering and Applied Sciences, Harvard University
UNDERGRADUATE RESEARCH PROJECTS	1. <i>Robust Eye BlinkBased Selection Technique for Gaze-Based Interaction</i> Advisor: Prof. Krzysztof Gajos (Harvard SEAS) 2. <i>Mitigating the Effects of Interruptions and Task Switching using Blink-Based Interfaces</i> Advisor: Prof. Krzysztof Gajos (Harvard SEAS) 3. <i>Using EEG Noise as a Means for Adding Robustness to Eye Gaze Interfaces</i> Advisor: Prof. Krzysztof Gajos (Harvard SEAS) 4. <i>PCA-Based Face Detection using FOSCAM IP Camera and Facebook</i> Advisor: Prof. Jim Waldo (Harvard SEAS) 5. <i>LightningVolt: A bicycle-based mobile device charger</i> Advisor: Prof. Gu-Yeon Wei (Harvard SEAS)
REFERENCES	Krzysztof Z. Gajos Professor Intelligent Interactive Systems Group <span style="float: right;">E-mail: kgajos@seas.harvard.edu</span> Harvard University SEAS  Sunyoung Kim Assistant Professor School of Communication and Information <span style="float: right;">E-mail: sunyoungkim@rutgers.edu</span> Rutgers University  Anas Chalah Executive Director of Active Learning School of Engineering and Applied Sciences <span style="float: right;">E-mail: achalah@seas.harvard.edu</span> Harvard University
HARDWARE AND SOFTWARE SKILLS	Engineering Hardware: Arduino, Raspberry Pi, BeagleBone, Neurosky MindWave, OpenEEG, Google Glass, Android, GazePoint EyeTracker, Empatica E4, EE Lab Stack (e.g. Oscilloscope, Function Generator)  Engineering Software: SolidWorks, MATLAB, Eagle, OpenCV, Open-Vibe, iPython/Jupyter
LANGUAGES	Computer Languages: C, MATLAB, L <sup>A</sup> T <sub>E</sub> X, HTML, CSS, PHP, JavaScript, Python (incl. NumPy, SciPy, SciKitLearn)  Human Languages: English (Native), Persian (Native), Spanish (Previously Fluent)