

## Yasha S. Iravantchi

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CONTACT INFORMATION	29 Oxford St. Cambridge, MA 02138	562-546-3690 <a href="mailto:yasha@seas.harvard.edu">yasha@seas.harvard.edu</a>
RESEARCH INTERESTS	Fabrication, wearables, ubiquitous computing, signal processing, and biosignals.	
EDUCATION	<b>Harvard University</b> , Cambridge, MA  S.B., <b>Engineering Sciences</b> (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 present
	<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 present
PUBLICATIONS	<ol style="list-style-type: none"><li>1. 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>2. 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>	
PRESENTATIONS AND TALKS	<p>"Labs in the Wild": Teaching Signal Processing Using Wearables and Jupyter Notebooks in the Cloud</p> <ul style="list-style-type: none"><li>• SciPy Conference, Austin, TX</li></ul> <p>How to Make Your Own Wearable (Workshop)</p> <ul style="list-style-type: none"><li>• Harvard Active Learning Labs, Cambridge, MA</li></ul> <p>Wearable Signal Processing Using Docker Notebook Containers on AWS</p> <ul style="list-style-type: none"><li>• JupyterDays Boston, Cambridge, MA</li></ul> <p>How to Measure Things (ES 100 Senior Capstone Workshop)</p> <ul style="list-style-type: none"><li>• Harvard Active Learning Labs, Cambridge, MA</li></ul> <p>EE Zero-To-Sixty Workshop (Harvard J-TERM Workshop)</p> <ul style="list-style-type: none"><li>• Harvard Active Learning Labs, Cambridge, MA</li></ul> <p>Data Measurement and Analysis (ES 100 Senior Capstone Lecture)</p> <ul style="list-style-type: none"><li>• Harvard Active Learning Labs, Cambridge, MA</li></ul>	

TEACHING EXPERIENCE	Teaching Fellow	Spring 2016
	ES 155 - Biological Signal Processing Instructor: Prof. Demba Ba School of Engineering and Applied Sciences, Harvard University	
	Course Assistant	Spring 2016
	ES 151 - Applied Electromagnetism Instructor: Mohamed Abouzahra, Ph.D. and Joseph Usoff, Ph.D. School of Engineering and Applied Sciences, Harvard University	
	Teaching Fellow	Springs 2013–14
UNDERGRADUATE RESEARCH PROJECTS	ES 50 - Introduction to Electrical Engineering Instructor: Profs. Marko Loncar and Evelyn Hu School of Engineering and Applied Sciences, Harvard University	
	Teaching Fellow	Fall 2013
	BE 110 - Physiological Systems Analysis Instructor: Prof. Daniel Merfeld School of Engineering and Applied Sciences, Harvard University	
	1. <i>Robust Eye BlinkBased Selection Technique for Gaze-Based Interaction</i> Advisor: Prof. Krzysztof Gajos (Harvard SEAS)	
	2. <i>Using EEG Noise as a Means for Adding Robustness to Eye Gaze Interfaces</i> Advisor: Prof. Krzysztof Gajos (Harvard SEAS)	
REFERENCES	3. <i>PCA-Based Face Detection using FOSCAM IP Camera and Facebook</i> Advisor: Prof. Jim Waldo (Harvard SEAS)	
	4. <i>LightningVolt: A bicycle-based mobile device charger</i> Advisor: Prof. Gu-Yeon Wei (Harvard SEAS)	
	Krzysztof Z. Gajos Professor Intelligent Interactive Systems Group Harvard University SEAS	E-mail: kgajos@seas.harvard.edu
	Demba Ba Professor School of Engineering and Applied Sciences Harvard University	E-mail: demba@seas.harvard.edu
	Sunyoung Kim Postdoctoral Fellow IIS/CRCS Harvard University	E-mail: sunyoungkim@seas.harvard.edu
HARDWARE AND SOFTWARE SKILLS	Engineering Hardware: Arduino, Raspberry Pi, BeagleBone, Neurosky MindWave, OpenEEG, Google Glass, Android, GazePoint EyeTracker, Empatica E4, EE Lab Stack	
	Engineering Software: SolidWorks, MATLAB/Simulink, LabView, Eagle, OpenCV, Open-Vibe, iPython/Jupyter, FabModules	
LANGUAGES	Computer Languages: C, MATLAB, L <sup>A</sup> T <sub>E</sub> X, HTML, CSS, PHP, JavaScript, Python	

Human Languages:

English (Native), Persian (Native), Spanish (Fluent)