

Yasha S. Iravantchi

CONTACT INFORMATION	Human-Computer Interaction Institute 5000 Forbes Ave. Pittsburgh, PA 15213	http://yasha.xyz ysi@cs.cmu.edu
RESEARCH INTERESTS	Human-Computer Interaction (HCI), Wearables, Ubiquitous Computing, Sensors, Health	
EDUCATION	Carnegie Mellon University , Pittsburgh, PA Ph.D. Student, Human-Computer Interaction	August 2017 to present
	Harvard College , Cambridge, MA S.B., Engineering Sciences (Tracks: Electrical Engineering/Biomedical Engineering)	May 2014
PROFESSIONAL EXPERIENCE	Design Specialist in Electrical Engineering Active Learning Labs, Harvard University SEAS Cambridge, MA	June 2014 to July 2017
	Product Design and Engineering Intern Design Catapult, Inc. Fountain Valley, CA	Summers 2009-2012
RESEARCH EXPERIENCE	Research Affiliate Intelligent Interactive Systems Group, Harvard University SEAS Supervisor: Prof. Krzysztof Z. Gajos	June 2013 to Jan 2017
PUBLICATIONS	<ol style="list-style-type: none">Sunyoung Kim, Yasha Iravantchi, 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.Sunyoung Kim, Yasha Iravantchi, 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.	
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">SciPy Conference, Austin, TX <i>Wearable Signal Processing Using Docker Notebook Containers on AWS</i> (Talk) <ul style="list-style-type: none">JupyterDays Boston, Cambridge, MA	
		July 2016 Mar 2016
TEACHING EXPERIENCE	Course Support 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
	Course Support 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
	Teaching Fellow ES 155 - Biological Signal Processing Instructor: Prof. Demba Ba School of Engineering and Applied Sciences, Harvard University	Spring 2016, Fall 2016
	Course Support 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

	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 Spring 2013, Spring 2014 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
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 E-mail: kgajos@seas.harvard.edu Harvard University SEAS Sunyoung Kim Assistant Professor School of Communication and Information E-mail: sunyoungkim@rutgers.edu Rutgers University Anas Chalah Executive Director of Active Learning School of Engineering and Applied Sciences E-mail: achalah@seas.harvard.edu 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 ^A T _E X, HTML, CSS, PHP, JavaScript, Python (incl. NumPy, SciPy, SciKitLearn) Human Languages: English (Native), Persian (Native), Spanish (Previously Fluent)