

Xiaoyi Zhang

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education

2014 - Now	PhD Student , Computer Science & Engineering Advised by Prof. James Fogarty	University of Washington, Seattle
2011 - 2014	Bachelor , Computer Science Advised by Prof. Majid Sarrafzadeh	University of California, Los Angeles
Research	HCI, Accessibility, Personal Informatics, Wireless Health, CV, AR	

publications

(PDF available at www.XiaoyiZhang.me)

Conference	Epidemiology as a Framework for Large-Scale Mobile Application Accessibility Assessment <i>A. Ross, X. Zhang, J. Fogarty, J. O. Wobbrock</i> ASSETS 2017 (Best Paper Nominee)
	Interaction Proxies for Runtime Repair and Enhancement of Mobile Application Accessibility <i>X. Zhang, A. Ross, A. Caspi, J. Fogarty, J. O. Wobbrock</i> CHI 2017
	Smartphone-Based Eye Gesture Communication for People with Motor Disabilities <i>X. Zhang, H. Kulkarni, M. R. Morris</i> CHI 2017
	Examining Unlock Journaling with Diaries and Reminders for In Situ Self-Report in Health and Wellness <i>X. Zhang, L. Pina, J. Fogarty</i> CHI 2016
	Leveraging Dual-Observable Input for Fine-Grained Thumb Interaction Using Forearm EMG <i>D. Huang, X. Zhang, TS. Saponas, J. Fogarty, S. Gollakota</i> UIST 2015
	See UV on Your Skin: An Ultraviolet Sensing and Visualization System <i>X. Zhang, W. Xu, M-C. Huang, F. Ren, N. Amini</i> BodyNets 2013
	Proper Running Posture Guide: A Wearable Biomechanics Capture System <i>X. Zhang, M-C. Huang, F. Ren, W. Xu, N. Guan, W. Yi</i> BodyNets 2013
Journal	FridgeNet: A Nutrition and Social Activity Promotion Platform for Aging Population <i>Y. Lee, M-C Huang, X. Zhang, W. Xu</i> Intelligent Systems, IEEE 30 (4)
	BreathSens: A Continuous On-Bed Respiratory Monitoring System With Torso Localization Using an Unobtrusive Pressure Sensing Array <i>J. Liu, M-C Huang, W. Xu, X. Zhang, L. Stevens, N. Alshurafa, M. Sarrafzadeh</i> Biomedical and Health Informatics, IEEE Journal of 19 (5)
	Using Pressure Map Sequences for Recognition of On Bed Rehabilitation Exercises <i>M-C. Huang, J. Liu, W. Xu, N. Alshurafa, X. Zhang, M. Sarrafzadeh</i> Biomedical and Health Informatics, IEEE Journal of 18 (2)
Workshop	Toward a Portable, Self-administered Critical Flicker Frequency Test <i>R. Karkar, R. Kocielnik, X. Zhang, J. Fogarty, G N. Ioannou, S A. Munson, J. Zia</i> Ubicomp Mental Health Workshop 2016
	EZwakeup: A Sleep Environment Design for Sleep Quality Improvement <i>M-C. Huang, X. Zhang, W. Xu, J. Liu, M. Sarrafzadeh</i> CHI Extended Abstract 2014
Patent	USER INTERFACE CONTROL USING GAZE TRACKING <i>K. Kohlhoff, X. Zhang</i> WO 2015164584, US 20150309569

experience

Paper Review	2018 - TEI 2017 - CHI / Mobile HCI / DIS / SUI 2016 - UIST / CHI LBW	
	Reviewed 15 conference papers.	
2017	MICROSOFT RESEARCH <i>Research Intern in Enable Team</i> Released multiple communication apps for people with ALS.	Redmond, WA
2016	MICROSOFT RESEARCH <i>Research Intern in Enable Team</i> Built a low-cost, robust, easy-to-learn&fast eye gesture communication phone app for people with ALS.	Redmond, WA
2015	GOOGLE RESEARCH <i>Research Intern in Machine Intelligence group</i> Developed 3 new features in coLaboratory(Collborative iPython Notebook).	Mountain View, CA
2014	MOVNPIC <i>Co-founder & Chief Creative Officer</i> Design & Develop an iOS app to create Interactive images.	Los Angeles, CA
2013	GOOGLE RESEARCH <i>Research Intern in Computer Vision & HCI group</i> Built non-rigid face features detection, pose & gaze tracking used by 3 teams.	Mountain View, CA
2012	APPLE <i>Software Engineering Intern in iCloud</i> Implemented 1 new feature, improved UX of web apps and fixed 47 bugs.	Cupertino, CA
2011 - 2013	SUNSHINE LIBRARY <i>Developer & Webmaster</i> Charitable rural information education using low-cost Android Tablet like OLPC.	Gansu, China
2011 - 2012	TALKWAYS <i>Co-founder & ex-CTO</i> Video chat platform to learn language with culture; received ¥5M investment.	Beijing, China
2011	DEMOHOUR <i>Sponsor & Developer of "Gesture@Mac"</i> Initiate the first project on Demohour, the largest crowd-funding platform in China now.	Beijing, China

media coverage

02/2017	Microsoft App Helps People with ALS Speak Using Just Their Eyes Editor's Pick. https://www.newscientist.com/article/2121579 This research is reported by Newsweek / The Telegraph / New Scientist / BGR / Business Standard / MSPoweruser and 50+ medias.	New Scientist
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awards

09/2014	Corin Anderson Endowed Fellowship One recipient in UW CSE Dept.	University of Washington
02/2014	New Face of Engineering College Edition Fifteen recipients across US; nominated by IEEE.	National Society of Professional Engineers
09/2013	Student Participation Grant Gave two talks at Bodynets conference.	European Alliance for Innovation
04/2013	Grand Prize, Best Mobile App & Best Data Viz Prize Project EyeWeight won \$7500; selected by Eytan Elbaz (Google AdSense founder).	LA Hacks, 40+ teams
04/2013	Second Place Project AResume was appreciated by Facebook recruiter.	Facebook Hackathon, 250+ participants
10/2012	Grand Prize & Tech Difficulty Prize Project Music++ won \$33000; selected by Howard Marks (Activision founder).	HackUCLA, 20+ teams