

Xiaoyi Zhang

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education

- 2014 - Now **PhD Student**, Computer Science & Engineering University of Washington, Seattle
Advised by Prof. James Fogarty
- 2011 - 2014 **Bachelor**, Computer Science University of California, Los Angeles
Advised by Prof. Majid Sarrafzadeh
- Research **HCI / Accessibility / Wireless Health / Applied AI (Computer Vision)**
Familiar with Swift / Kotlin / C++ / Python / Javascript, in iOS / Android / Web development

publications (12)

(PDF available at www.XiaoyiZhang.me)

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

experience

2017	MICROSOFT RESEARCH <i>Research Intern in Enable Team</i> Released SwipeSpeak, a communication app for people with ALS (iOS Store / Github).	Redmond, WA
2016	MICROSOFT RESEARCH <i>Research Intern in Enable Team</i> Built a low-cost eye gesture recognition system on phone powered by computer vision (patent pending).	Redmond, WA
2015	GOOGLE RESEARCH <i>Research Intern in Machine Intelligence group</i> Developed 3 new features in coLaboratory (Collaborative iPython Notebook).	Mountain View, 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 Google teams. Received <i>Superstar Performance</i> in Manager's Evaluation	Mountain View, CA
2012	APPLE <i>Software Engineering Intern in iCloud</i> Implemented a new feature, improved iCloud web app UX and fixed 47 bugs.	Cupertino, CA
2011 - 2012	TALKWAYS <i>Co-founder & ex-CTO</i> Video chat platform to learn language with culture. Received ¥5 Million investment.	Beijing, China
Patent	USER INTERFACE CONTROL USING GAZE TRACKING <i>K. Kohlhoff, X. Zhang</i> WO 2015164584, US 20150309569	
Paper Review	2018 - CHI / TEI / Mobile HCI 2017 - CHI / Mobile HCI / DIS / SUI 2016 - UIST / CHI LBW Reviewed 17 conference papers.	

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.
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awards

02/2018	Funding from Jones+Foster Accelerator Team ShopSight met milestones to receive \$25,000 as startup funding.
12/2017	Grant from Washington Research Foundation Team ShopSight received \$15,000 as research funding.
10/2017	Best Paper Nominee in ASSETS Conference <i>Epidemiology as a Framework for Large-Scale Mobile Application Accessibility Assessment.</i>
09/2017	Second Place in GIX Innovation Competition Team ShopSight won \$20,000 as gift money.
09/2014	Corin Anderson Endowed Fellowship from University of Washington One recipient in UW CSE.
04/2013	Grand Prize, Best Mobile App & Best Data Viz Prize in LA Hacks (40+ teams) Project EyeWeight won \$7,500; selected by Eytan Elbaz (Google AdSense founder).
04/2013	Second Place in Facebook Hackathon (250+ participants) Project AResume was selected by Facebook recruiter.
10/2012	Grand Prize & Tech Difficulty Prize in HackUCLA (20+ teams) Project Music++ won \$33,000; selected by Howard Marks (Activision founder).