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

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

(Two papers under review in CHI 2017)

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)

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)

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)

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

Patent

USER INTERFACE CONTROL USING GAZE TRACKING
K. Kohlhoff, X. Zhang
WO 2015164584, US 20150309569

experience

Academia | **CHI 2017, UIST 2016, CHI Late Breaking 2016**
Reviewed 7 conference papers.

2016 | **MICROSOFT RESEARCH** | Redmond, WA
Research Intern in Enable Team
Built a low-cost, robust, easy-to-learn&fast eye gesture communication phone app for people with ALS.

2015 | **GOOGLE RESEARCH** | Mountain View, CA
Research Intern in Machine Intelligence group
Developed 3 new features in coLaboratory(Collborative iPython Notebook).

2014 | **MOVNPIC** | Los Angeles, CA
Co-founder & Chief Creative Officer
Design & Develop an iOS app to create Interactive images.

2013 | **GOOGLE RESEARCH** | Mountain View, CA
Research Intern in Computer Vision & HCI group
Built non-rigid face features detection, pose & gaze tracking for 3 teams.

2012 | **APPLE** | Cupertino, CA
Software Engineering Intern in iCloud
Implemented 1 new feature, improved UX of web apps and fixed 47 bugs.

2011 - 2013 | **SUNSHINE LIBRARY** | Gansu, China
Webmaster & Developer
Charitable rural information education using low-cost Android Tablet like OLPC.

2011 - 2012 | **TALKWAYS** | Beijing, China
Co-founder & ex-CTO
Video chat platform to learn language with culture; received $1 million investment.

2011 | **DEMOHOUR** | Beijing, China
Inventor of "Gesture@Mac"
Initiate the first project on Demohour, the largest crowd-funding platform in China now.

awards

09/2014 | **Corin Anderson Endowed Fellowship** | University of Washington
Cover PhD tuition and stipend.

02/2014 | **New Face of Engineering College Edition** | National Society of Professional Engineers
One of national 15 winners, nominated by IEEE.

09/2013 | **Student Participation Grant** | European Alliance for Innovation
Present two papers at Bodynets conference.

04/2013 | **Grand Prize, Best Mobile App & Best Data Viz Prize** | LA Hacks, 40+ teams
Project EyeWeight won $7500; attracted Eytan Elbaz (Google Adsense founder).

04/2013 | **Second Place** | Facebook Hackathon, 250+ participants
Project AResume was appreciated by Facebook recruiter.

10/2012 | **Grand Prize & Tech Difficulty Prize** | HackUCLA
Project Music++ won $33000; attracted Howard Marks (Activision founder).