

CS PhD Candidate at Stanford University

□ (+1) 412-494-8306 | Signification | Signifi

Education

Stanford University

Stanford, CA, USA

Sept. 2016 - now

Ph.D. Candidate in Computer Science

• Awarded Stanford School of Engineering Scholarship

Peking University

Beijing, China

Sept. 2012 - Jun. 2016

B.S. IN COMPUTER SCIENCE

Awarded Peking University Leo Ko Guan Scholarship (2nd/53)

- Awarded Peking University Founder Scholarship(2nd/53)
- · Graduated with honor

Experience _____

Stanford University (Co-advised by Prof. James Landay and Prof. Monica Lam)

California, US

Sept. 2017 - Now

RESEARCH ASSISTANT

- HybridTrak: Adding Full-Body Tracking to VR Using an Off-the-Shelf Webcam
- DoThisHere: Multimodal Interaction to Improve Cross-Application Tasks on Mobile Devices
- Soundr: Head position and orientation prediction using a microphone array
- InfoLED: Augmenting LED Indicator Lights for Device Positioning and Communication
- VR Segway: Using self-balancing-vehicle and visual illusion to provide convincing VR locomotion experience

Microsoft Research (Christian Holz, Eyal Ofek, Andy Wilson)

Washington, USA

RESEARCH INTERN

Jun. 2018 - Sept. 2018

 $\bullet \ \ \mathsf{DreamWalker: Substituting \, Real-World \, Walking \, \mathsf{Experiences \, with \, a \, Virtual \, Reality} \\$

IXL Lab, HP Inc. (Tico Ballagus)

California, USA

RESEARCH INTERN

Jun. 2017 - Sept. 2017

· Ungrounded Haptic Retargeting: leverage haptic illusion on tools to provide ungrounded force feedback

MobiSocial Lab, Stanford University (Prof. Monica Lam)

California, USA

RESEARCH ASSISTANT

Apr. 2017 - Jun. 2017

• Re-purpose indication light on commercial hardware for select and control

IxD Lab, Stanford University (Prof. James Landay)

California, USA

RESEARCH ASSISTANT

Jan. 2017 - Mar. 2017

Using drones to provide haptic feedback in Virtual Reality.

California, USA

Shape Lab, Stanford University (Prof. Sean Follmer)RESEARCH ASSISTANT

Sept. 2016 - Dec. 2016

• Working on a compact, hi-resolution physical texture display.

.pt. 2010 - DCC. 2010

SORA, Peking University (Prof. Chenren Xu)

Beijing, China

RESEARCH INTERN

May 2016 - Aug. 2016

• Working on passive visible light communication system, accepted by MobiCom 2017.

Ubicomp Group, Georgia Institute of Technology (Prof. Gregory Abowd)

Georgia, USA

STUDENT RESEARCH INTERN

Nov. 2015 - Feb. 2016

• Working on interaction technique based on acoustic information, accepted by ISWC'16.

Ubicomp Lab, Carnegie Mellon University (Prof. Anind Dey)

STUDENT RESEARCH INTERN

• Working on Bluewave, an opportunistic context sharing framework, accepted by EICS 16'.

· Working on IoT end-user programming toolkit.

Wireless and Networking research group, Microsoft Research Asia (Jacky Shen)

RESEARCH INTERN

• Working on detecting handwriting annotations on printed document by mobile devices.

Biodynamics Optical Imaging Center, Peking University (Prof. Yanyi Huang)

RESEARCH INTERN

• Built "Cell Picker", a Computer assisted high throughput cell selecting system.

- Built "Micro-droplet generator", submitted a paper in Chemical Science.
- · Introduced Cell Picker to Jinping Xi, the Chairman(President) of China, when he visited Peking University.

Publication _

HybridTrak: Adding Full-Body Tracking to VR Using an Off-the-Shelf Webcam

JACKIE YANG; TUOCHAO CHEN; FANG QIN; MONICA S. LAM; JAMES A. LANDAY

DoThisHere: Multimodal Interaction to Improve Cross-Application Tasks on Mobile Devices

JACKIE YANG; MONICA S. LAM; JAMES A. LANDAY

Soundr: head position and orientation prediction using a microphone array

JACKIE YANG; GAURAB BANERJEE; VISHESH GUPTA; MONICA S. LAM; JAMES A. LANDAY

DreamWalker: Substituting Real-World Walking Experiences with a Virtual Reality

JACKIE YANG; CHRISTIAN HOLZ; EYAL OFEK; ANDREW D WILSON

InfoLED: Augmenting LED Indicator Lights for Device Positioning and Communication

JACKIE YANG; JAMES A LANDAY

Beyond The Force: Using Quadcopters to Appropriate Objects and the Environment for Haptics in Virtual Reality

Parastoo Abtahi; Benoit Landry; Jackie Yang; Marco Pavone; Sean Follmer; James A Landay

VR Grabbers: Ungrounded Haptic Retargeting for Precision Grabbing Tools

JACKIE YANG; HIROSHI HORII; ALEXANDER THAYER; RAFAEL BALLAGAS

Pittsburgh, USA

Jul. 2015 - Sept. 2015

Beijing, China

Jan. 2015 - Jun. 2015

Beijing, China

Jun. 2013 - Sept. 2014

Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems

2022

Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology (UIST)

2020

Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems

2020

Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology (UIST)

2019

Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology (UIST)

2019

Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (UIST)

2019

The 31st Annual ACM Symposium on User Interface Software and Technology (UIST)

2018

PassiveVLC: Enabling Practical Visible Light Backscatter Communication for Battery-free IoT Applications

XIEYANG XU; YANG SHEN; JACKIE (JUNRUI) YANG; CHENREN XU; GUOBIN SHEN; GUOJUN CHEN

The 23rd Annual International Conference on Mobile Computing and Networking (MobiCom)

2017

shiftIO: Reconfigurable Tactile Elements for Dynamic Affordances and Mobile Interaction

EVAN STRASNICK; JACKIE YANG; KESLER TANNER; ALEX OLWAL; SEAN FOLLMER;

Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems

2017

Watchout: Extending interactions on a smartwatch with inertial sensing

ZHANG, CHENG; YANG, JUNRUI; SOUTHERN, CALEB; STARNER, THAD E; ABOWD, GREGORY D;

Proceedings of the 2016 ACM International Symposium on Wearable Computers

2016

Bluewave: enabling opportunistic context sharing via bluetooth device names

de Freitas, Adrian A; Nebeling, Michael; Ranithangam, Akshaye Shreenithi Kirupa Karthikeyan; **Yang, Junrui**; Dey, Anind K;

Proceedings of the 8th ACM SIGCHI
Symposium on Engineering
Interactive Computing Systems

2016

Snap-To-It: A User-Inspired Platform for Opportunistic Device Interactions

Adrian A de Freitas, Michael Nebeling, XiangʻAnthony'Chen, **Junrui Yang**, Akshaye Shreenithi Kirupa Karthikeyan Ranithangam, Anind K Dey;

Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems

2016

Spinning micropipette liquid emulsion generator for single cell whole genome amplification

Chen, Zitian; Fu, Yusi; Zhang, Fangli; Liu, Lu; Zhang, Naiqing; Zhou, Dong; **Yang, Junrui**; Pang, Yuhong; Huang, Yanyi;

Lab on a Chip

2016

Design, preparation, and selection of DNA-encoded dynamic libraries

Li, Gang; Zheng, Wenlu; Chen, Zitian; Zhou, Yu; Liu, Yu; Yang, Junrui; Huang, Yanyi; Li, Xiaoyu;

Chemical Science

2015

A high-performance and high-programmability reconfigurable wireless development platform

Chen, Jiahua; Wang, Tao; Wu, Haoyang; Gong, Jian; Li, Xiaoguang; Hu, Yang; Zhang, Gaohan; Li, Zhiwei; Yang, Junrui; Lu, Songwu;

Field-Programmable Technology (FPT), 2014 International Conference

OH

2014

Extracurricular Activity _____

Stanford HCI Lunch Seminar

ORGANIZER

MAY 1, 2022

Stanford, CA, USA

Sept. 2019 - Aug. 2020

Peking University Makerspace

Co-founder, President

Beijing, China Nov. 2014 - June 2016

3

JUNRUI (JACKIE) YANG · RÉSUMÉ