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# **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)

Sept. 2017 - Now

- 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

• DreamWalker: Substituting Real-World Walking 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

RESEARCH ASSISTANT

Jan. 2017 - Mar. 2017

• Using drones to provide haptic feedback in Virtual Reality.

### California, USA

Shape Lab, Stanford University (Prof. Sean Follmer)

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

Sept. 2016 - Dec. 2016

# **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.

# Georgia, USA

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

Nov. 2015 - Feb. 2016

STUDENT RESEARCH INTERN

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

MAY 1, 2022 JUNRUI (JACKIE) YANG · RÉSUMÉ

# **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.

Jan. 2015 - Jun. 2015

Beijing, China

Pittsburgh, USA

Jul. 2015 - Sept. 2015

Beijing, China

Jun. 2013 - Sept. 2014

# **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

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

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# 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

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JUNRUI (JACKIE) YANG · RÉSUMÉ