

Jackie (Junrui) Yang

CS PHD CANDIDATE AT STANFORD UNIVERSITY

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Education

Stanford University

Stanford, CA, USA

PH.D. CANDIDATE IN COMPUTER SCIENCE

Sept. 2016 - now

- Awarded Stanford School of Engineering Scholarship

Peking University

Beijing, China

B.S. IN COMPUTER SCIENCE

Sept. 2012 - Jun. 2016

- 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, USA

RESEARCH ASSISTANT

Sept. 2017 - Now

- AutoTrak: 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

Jan. 2017 - Mar. 2017

- Using drones to provide haptic feedback in Virtual Reality.

Shape Lab, Stanford University (Prof. Sean Follmer)

California, USA

RESEARCH ASSISTANT

Sept. 2016 - Dec. 2016

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

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)

Pittsburgh, USA

STUDENT RESEARCH INTERN

Jul. 2015 - Sept. 2015

- 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)

Beijing, China

RESEARCH INTERN

Jan. 2015 - Jun. 2015

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

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

Beijing, China

RESEARCH INTERN

Jun. 2013 - Sept. 2014

- 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

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

In submission to CHI 2021

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

2021

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

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

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

2020

Soundr: head position and orientation prediction using a microphone array

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

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

2020

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

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

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

2019

InfoLED: Augmenting LED Indicator Lights for Device Positioning and Communication

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

JACKIE YANG; JAMES A LANDAY

2019

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

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

PARASTOO ABTAHI; BENOIT LANDRY; JACKIE YANG; MARCO PAVONE; SEAN FOLLMER; JAMES A LANDAY

2019

VR Grabbers: Ungrounded Haptic Retargeting for Precision Grabbing Tools

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

JACKIE YANG; HIROSHI HORII; ALEXANDER THAYER; RAFAEL BALLAGAS

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, XIANG'ANTHONY'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, XIAOQUANG; HU, YANG; ZHANG, GAOHAN; LI, ZHIWEI; **YANG, JUNRUI**; LU, SONGWU;

Field-Programmable Technology (FPT), 2014 International Conference on

2014

Extracurricular Activity

Stanford HCI Lunch Seminar

ORGANIZER

Stanford, CA, USA

Sept. 2019 - Aug. 2020

Peking University Makerspace

CO-FOUNDER, PRESIDENT

Beijing, China

Nov. 2014 - June 2016