LOOKING FOR A FULL-TIME POSITION AT A RESEARCH LAB BEGINNING IN 2020

Huanle Zhang

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EDUCATION

University of California, Davis, California

Sep. 2016 – Present

Ph.D. in Computer and Information Sciences

Advisor: Prasant Mohapatra

University of Electronic Science and Technology of China, Chengdu, China

Sep. 2011 – June 2014

M.S. in Communication and Information System

Advisor: Jian Liu

Hangzhou Dianzi University, Hangzhou, China

Sep. 2007 - June 2011

B.S. in Communication Engineering

Advisor: Na Ying

UNIVERSITY PROGRAM

AT&T Labs, Bedminster, New Jersey

Feb. 2019 – Present

Project: Deep Learning for Mobile Immersive Computing

Mentor: Bo Han

WORK AND INTERNSHIP EXPERIENCE

Bell Labs, Murray Hill, New Jersey

June 2018 - Aug. 2018

Summer Intern, Mentor: Mostafa Uddin, Fang Hao, Sarit Mukherjee

- Developed a mobile system for onboarding IoT devices using received signal strength
- Developed an algorithm to associate visual identity with signals

Microsoft Research Asia, Beijing, China

March 2018 - June 2018

Spring Intern, Mentor: Yunxin Liu

- Conducted research on distributed models, model compression and image super-resolution
- Became familiar with machine learning frameworks and concepts

Simula Research Laboratory, Fornebu, Norway

July 2017 – Sep. 2017

Summer Intern, Mentor: Ahmed Elmokashfi

- Developed a WiFi system to reduce latency using multiple IEEE 802.11ac NICs
- Became familiar with MPTCP, IEEE 802.11ac driver code

Nanyang Technological University, Singapore

Aug. 2014 – June 2016

Project Officer, Mentor: Mo Li

- Developed an acoustic system for encounter profiling
- Developed a visible light communication system using string lights
- Built a sensor network system for fast data dissemination by leveraging constructive interference

RESEARCH INTEREST

Mobile Systems & Applications; Internet of Things; Virtual Reality; Augmented Reality; Machine Learning

SKILLS

Android development; Tensorflow/Keras; Python; Matlab; C/C++; Linux Utility/Kernel/Driver

PATENT

• US Patent App. 16/247,797. Augmented Onboarding of Internet-of-Things Devices Fang Hao (25%), Sarit Mukherjee (25%), Mostafa Uddin (25%) and **Huanle Zhang** (25%)

AWARDS

Nokia National Patent Filing Award	2019
Best Demo Award, ACM Workshop on Mobile Computing Systems and Applications (ACM HotMobile)	2019
NSF Student Travel Grant, ACM Workshop on Mobile Computing Systems and Applications (ACM HotMobile)	2019
Best Paper Award, ACM Conference on Embedded Networked Sensor Systems (ACM SenSys)	2015
IEEE Student Travel Grant, IEEE Global Communication Conference (IEEE GLOBECOM)	2013

PUBLICATIONS

- **Huanle Zhang**, Ahmed Elmokashfi, Zhicheng Yang and Prasant Mohapatra. *Wireless Access to Ultimate Virtual Reality 360-Degree Video At Home*, arXiv:1812.01777
- Huanle Zhang, Mostafa Uddin, Fang Hao, Sarit Mukherjee and Prasant Mohapatra. AIDE: Augmented Onboarding
 of IoT Devices at Ease. ACM Workshop on Mobile Computing Systems and Applications (HotMobile), Santa Cruz,
 USA, 2019
- **Huanle Zhang**, Ahmed Elmokashf and Prasant Mohapatra. *WiFi and Multiple Interfaces: Adequate for Virtual Reality?*. IEEE Conference on Parallel and Distributed Systems (**ICPADS**), Singapore, 2018
- **Huanle Zhang**, Wan Du, Mo Li, Kaishun Wu and Prasant Mohapatra. *StrLight: An Imperceptible Visible Light Communication System with String Lights*, IEEE Transactions on Mobile Computing (**TMC**), 2018
- **Huanle Zhang**, Wan Du, Pengfei Zhou, Mo Li and Prasant Mohapatra. *An Acoustic-based Encounter Profiling System*, IEEE Transactions on Mobile Computing (**TMC**), 2018
- Wan Du, Jansen Christian Liando, **Huanle Zhang** and Mo Li. *Pando: Fountain-Enabled Fast Data Dissemination with Constructive Interference*, IEEE/ACM Transactions on Networking (**TON**), 2017
- **Huanle Zhang**, Wan Du, Pengfei Zhou, Mo Li and Prasant Mohapatra. *DopEnc: Acoustic-based Encounter Profiling Using Smartphones*, ACM Conference on Mobile Computing and Networking (**MobiCom**), New York, USA, 2016
- Wan Du, Jansen Christian Liando, Huanle Zhang and Mo Li. When Pipelines Meet Fountain: Fast Data Dissemination in Wireless Sensor Network, ACM Conference on Embedded Networked Sensor Systems (SenSys), Seoul, South Korea, 2015
- Huanle Zhang, Jian Liu and Haili Shi. Analysis of Accessing to the Nearest and to the Strongest Base Station in Femtocell Networks, International Journal of Communication Systems (IJCS), 2014
- **Huanle Zhang**, Jian Liu, Yupeng Jia and Yulu Ma. *Analysis of Femtocell Coverage Fraction and Isolated Probability Using Stochastic Geometry*, IEEE Global Communications Conference (**GLOBECOM**), Atlanta, USA, 2013
- Huanle Zhang, Jian Liu, Yu Fu and Niangeng Guo. *OFDMA Femtocell Gateway Scheduling Based on Coloring*, Advances in Information Sciences and Service Sciences (AISS), 2013
- **Huanle Zhang**, Yu Fu and Jian Liu. *Optimal Transmission Distance of Mean Progress and Mean Transport in Device-to-device Networks*, International Conference on Cyberspace Technology (CCT), Beijing, China, 2013
- **Huanle Zhang**, Jian Liu and Niangeng Guo. A Tractable Framework for Power Consumption in Femtocell Networks, International Conference on Multimedia Information Networking and Security (MINES), Beijing, China, 2013
- Huanle Zhang and Jian Liu. Policy on Downlink Access of Femtocell Based on OFDMA in Dense Employment Residential Environment, International Conference on Software Engineering and Information System (SEIS), Shijiazhuang, China, 2013

POSTERS

- **Huanle Zhang**, Zhicheng Yang and Prasant Mohapatra. Wireless Access to Ultimate Virtual Reality 360-Degree Video, IoTDI, 2019
- Zhicheng Yang, Parth H Pathak, Jianli Pan, Mo Sha, **Huanle Zhang** and Prasant Mohapatra. *Blockage-aware Deployment of 60 GHz Millimeter-wave WLANs*, mmW RCN workshop, 2019