STEVE WEIPENG ZHUO

Email: wzhuo@ust.hk   Tel: (+852) 65897768   Homepage: https://stevezhuo.github.io/

EDUCATION

The Hong Kong University of Science and Technology   *Sept. 2017 – Present*
Ph.D. in Computer Science and Engineering
Advisor: Prof. Shueng-Han Gary Chan

The Hong Kong University of Science and Technology   *Sept. 2011 – Aug. 2013*
Master of Philosophy in Computer Science and Engineering
Advisor: Prof. Shueng-Han Gary Chan

Princeton University   *Nov. 2012 – Feb. 2013*
Visiting Scholar in Electrical Engineering
Advisor: Prof. Mung Chiang

The Hong Kong University of Science and Technology   *Sept. 2007 – Aug. 2011*
BSc (Double Major) in Computer Science and Applied Mathematics
First Class Honors

PUBLICATIONS

1. FIS-ONE: Floor Identification System with One Label for Crowdsourced RF Signals
   Weipeng Zhuo, Ka Ho Chiu, Jierun Chen, Ziqi Zhao, S.-H. Gary Chan, Sangtae Ha, Chul-Ho Lee
   IEEE International Conference on Distributed Computing Systems (ICDCS), 2023

2. Run, Don't Walk: Chasing Higher FLOPS for Faster Neural Networks
   Jierun Chen, Shiu-hong Kao, Hao He, **Weipeng Zhuo**, Song Wen, Chul-Ho Lee, S.-H. Gary Chan
   IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023

3. Semi-supervised Learning with Network Embedding on Ambient RF Signals for Geofencing Services
   Weipeng Zhuo, Ka Ho Chiu, Jierun Chen, Jiajie Tan, Edmund Sumpena, Sangtae Ha, S.-H. Gary Chan, Chul-Ho Lee
   IEEE International Conference on Data Engineering (ICDE), 2023

4. TVConv: Efficient Translation Variant Convolution for Layout-Aware Visual Processing
   Jierun Chen, Tianlang He, **Weipeng Zhuo**, Li Ma, Sangtae Ha, S.-H. Gary Chan
   IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022

5. GRAFICS: Graph Embedding-based Floor Identification Using Crowdsourced RF Signals
   Weipeng Zhuo, Ziqi Zhao, Ka Ho Chiu, Shiju Li, Sangtae Ha, Chul-Ho Lee, S.-H. Gary Chan
   IEEE International Conference on Distributed Computing Systems (ICDCS), 2022

6. Tackling Multipath and Biased Training Data for IMU-assisted BLE Proximity Detection
   Tianlang He, Jiajie Tan, **Weipeng Zhuo**, Maximilian Printz, S-H Gary Chan
   IEEE International Conference on Computer Communications (INFOCOM), 2022

7. IoT Geofencing for COVID-19 Home Quarantine Enforcement
   Jiajie Tan, Edmund Sumpena, **Weipeng Zhuo**, Ziqi Zhao, Mengyun Liu, S-H Gary Chan
   IEEE Internet of Things Magazine, 2022

8. Error Modeling and Estimation Fusion for Indoor Localization
   Weipeng Zhuo, Bo Zhang, S-H Gary Chan, Edward Y Chang
   IEEE International Conference on Multimedia and Expo (ICME), 2012

SELECTED AWARDS

- Hong Kong Ph.D. Fellowship Scheme, 2017 – 2021

- Postgraduate Scholarship, HKUST, 2011 – 2013

- Research Travel Grant, HKUST, 2012

- Hong Kong ICT Bronze Award, 2012

- First Class Honors, HKUST, 2011

WORKING EXPERIENCE

Shantou University, Guangdong *Spring 2017*
Part-time Lecturer, Android Programming.
Advisor: Prof. Chengdian Zhang

Shantou Sunshine Network, Guangdong *Nov. 2015 – May 2017*
Tech. Lead, responsible for website development.

Pipe of Insight (Online Education), Hong Kong *Sept. 2013 – May 2015*
Early Founder, responsible for Android application development.
The startup raised angel round funding and series A financing.

Microsoft, Shanghai *Jun. 2011 – Aug. 2011*
Program Manager Intern.

TEACHING ASSISTANT

- COMP 5622: Advanced Computer Communications and Networking

- COMP 4911/6613D/ENTR4911: IT Entrepreneurship

- COMP 4021: Internet Computing

- COMP 2012: Object-Oriented Programming and Data Structures

SKILLS

Programming	Python, Android, C++, C#, JavaScript
Tools	PyTorch, Unix, LaTex, Git
Languages	Mandarin (native), English (proficient), Cantonese (proficient)