

Wei-Han Chen

Baker Systems Engineering Bldg
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EDUCATION

The Ohio State University

Ph.D. in Computer Science

Columbus, Ohio

Aug. 2017 – present

National Chiao Tung University

M.S. in Computer Science (GPA: 4.26/4.3)

Hsinchu, Taiwan

Jan. 2016

National Chiao Tung University

B.S. in EECS Honors Program (GPA: 3.78/4.3)

Exchange student at UIUC (GPA: 3.69/4.0)

Hsinchu, Taiwan

Jun. 2014

Fall 2013

Related Courses

Computer Networks, Wireless Networks, Communication Networks, Network Programming, Network Security, Network Performance Analysis, Digital Signal Processing, Stochastic Signal Processing

PUBLICATIONS

1. **W.-H. Chen**, Y. Ren, J.-C. Chen. Design and Analysis of a Threshold Offloading Algorithm for LTE Femtocell/Macrocell Networks, the 21st IEEE Symposium on Computers and Communications (ISCC 2016).
2. Yao-Yu Li, Chi-Yu Li, **Wei-Han Chen**, Chia-Jui Yeh, Kuochen Wang. Enabling seamless WiGig/WiFi handovers in tri-band wireless systems. (ICNP 2017)

RESEARCH EXPERIENCE

Full-Duplex Relay Systems

2018

- Implemented an offline full-duplex relay system on USRP N210 software radios. Achieved throughput performance over TDMA upto 1.7x.

Integrated WiGig/Wi-Fi Networking

2017

- Implemented a framework that supports seamless handover between WiGig and Wi-Fi,

leveraging a dedicated control channel over Wi-Fi.

QoS Analysis for Mobile User Equipment under Small Cells

2015 – 2016

- Designed an algorithm to tackle the frequent handover issue due to user mobility in densely deployed LTE Femtocell/Macrocell networks.

Performance Analysis for Networked Systems

2015

- Studied recent research works on analyzing networked systems, such as smart grid and 802.11 networks.

Inter-RAT Connectivity over Software Defined Network

2014 – 2015

(collaborated with Industrial Technology Research Institute, Taiwan)

- Implemented an SDN-based prototype for offloading data traffic from LTE core networks, utilizing heterogeneous network resources.

Bandwidth Saving over Bluetooth

2013

- Implemented an algorithm for file dissemination over Bluetooth on Android phones in bandwidth-limited environment.

TEACHING EXPERIENCE

The Ohio State University, Columbus, Ohio

- Modeling and Problem Solving with Spreadsheets and Databases (CSE2111) Spring 2019

National Chiao Tung University, Hsinchu, Taiwan

- Intro. to 3GPP LTE Mobile Comm. Protocol (IOE5072) Fall 2015
- Wireless Networks (IOE5016) Spring 2015

HONORS & AWARDS

- The Ohio State University CSE Departmental Fellowship 2017
- Best Elite Award at MobileHeros SDN Contest, Taiwan 2014
- NCTU Studying Abroad Scholarship 2013