

# W. Alex Chen

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## EDUCATION

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### The Ohio State University

Columbus, Ohio

*Ph.D. in Computer Science*

Aug. 2017 – present

### National Chiao Tung University

Hsinchu, Taiwan

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

Jan. 2016

### National Chiao Tung University

Hsinchu, Taiwan

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

Jun. 2014

Exchange student at UIUC (GPA: 3.69/4.0)

Fall 2013

## Related Courses

Computer Networks, Wireless Networks, Network Programming, Network Security, Network Performance Analysis, Intro. to 3GPP LTE Mobile Communication Protocol, Probability, Queueing Theory, Operating Systems

## PUBLICATIONS

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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).

## RESEARCH EXPERIENCE

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### 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**

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### **National Chiao Tung University**

Hsinchu, Taiwan

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

## **HONORS & AWARDS**

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