Chun-Yu (Daniel) Chen

CSE Ph.D. Student (Candidate)

University of Michigan, Ann Arbor

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Country of Origin: Taiwan (R.O.C)

RESEARCH AREAS

Privacy and Security, Anomaly Detection, Mobile Sensing, Automobile Systems, Wireless Communications, Networking, Internet of Things, Localization/Positioning, Multimedia/Signal Processing

RESEARCH PROJECTS

Detection and Correction of Maneuver Control Anomaly via V2X Communication | Real-Time Computing Lab (RTCL)

06/2019 - Present

Advisor: Prof. Kang G. Shin, Collaborator: Intel Labs

Developed anomaly detection systems based on wireless measurements and BSMs

Context-Aware Detection of Vehicle Anomalies

05/2019 - 10/2019

| Real-Time Computing Lab (RTCL) & Ford Motor Company

Advisor: Prof. Kang G. Shin, Collaborator: John Moore, Soodeh Dadras

Developed CADD to identify vehicle acceleration anomaly based on context estimations

CarDog: What's Wrong with My Car?

06/2018 - 05/2019

| Real-Time Computing Lab (RTCL) & Ford Motor Company - Greenfield Labs

Advisor: Prof. Kang G. Shin, Collaborator: Yu Seung Kim

Developed CarDog to identify sensor data anomaly of vehicle and external device

Keep Others from Peeking at Your Mobile Device Screen! | Real-Time Computing Lab (RTCL)

09/2017 - 09/2018

Advisor: Prof. Kang G. Shin

Developed HideScreen to protect general on-screen information (e.g., texts and images) shown on our mobile devices

Is the Phone in a Moving Car's Driver Seat?

10/2016 - 08/2017

| Real-Time Computing Lab (RTCL)

Advisor: Prof. Kang G. Shin

Developed an in-car phone localization scheme, *DAPL* (Detection and Alarming of Phone Location), to locate smartphones in moving cars for prevention of distracted driving

Large Scale Reliable Mesh Network (Chief Engineer) | Smart X Lab

05/2015 - 06/2016

Developed and commercially deployed large scale IoT systems based on IEEE 802.15.4

Green Context-Aware Platform for Smart Living (Team Leader)

02/2012 - 01/2014

| Next Generation Wireless Networking Lab

Advisor: Prof. Chun-Ting Chou

Developed a context-aware platform that integrates heterogeneous sensors and actuators in smart living environments

Cooperative Localization (Team Member) Next Generation Wireless Networking Lab	09/2010 – 01/2012
Advisor: Prof. Chun-Ting Chou	09/2010 – 01/2011
Privacy Protection of Location-based Services (Team Member) Next Generation Wireless Networking Lab Advisor: Prof. Chun-Ting Chou	
	Identified identity leak issues when using anonymous location-based services
Enucation	
EDUCATION	
CSE Ph.D. Student (Candidate)	09/2016 - present
 Computer Science and Engineering, University of Michigan, Ann Arbor, U.S. 	
> GPA: 4.06/4.3 (Converted GPA: 4.0/4.0)	
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Master of Science Degree	02/2012 - 01/2014
 Institute of Communication Engineering, National Taiwan University (NTU), Taiwan 	
> GPA: 4.26/4.30 (Converted GPA: 3.98/4.0)	
➤ Rank: 11 th among 104 students	
Bachelor of Science Degree (Graduated in only 3.5 years)	09/2008 - 01/2012
Department of Electrical Engineering, National Taiwan University (NTU), Taiwan	00/2000 01/2012
 ➢ GPA: 88.18/100 (Converted GPA: 3.94/4.0) 	
Rank: 47 th among 226 students	
WORKING AND TEACHING EXPERIENCES	
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Vehicle Cyber Security Intern Ford Motor Company (http://www.ford.com)	05/2019 – 08/2019
	03/2019 - 06/2019
Vehicle Cyber Security Intern Ford Motor Company – Greenfield Labs (http://www.ford.com)	06/2018 – 08/2018
	00/2010 - 00/2010
Chief Engineer (Full Time)	06/0045 06/0046
Smart X Lab (http://smartxlab.com)	06/2015 – 06/2016
Substitute Military Services (Educational Services)	04/0044 04/0045
Office of General Affairs at Tainan Municipal WunSian Junior High School	04/2014 – 04/2015
Graduate Assistant	00/0040 04/0044
Next Generation Wireless Networking Lab (http://nxg.ee.ntu.edu.tw)	02/2012 - 01/2014
Teaching Assistant (Course: Design of Wireless Communication Networks)	00/55/5
Graduate Institute of Communication Engineering, National Taiwan University	09/2013 - 01/2014

PUBLICATIONS AND AWARDS

Chun-Yu Chen, Bo-Yao Lin, Junding Wang and Kang G. Shin

"Keep Others from Peeking at Your Mobile Device Screen!"

In The 25th Annual International Conference on Mobile Computing and Networking (MobiCom '19), Oct. 2019

Master Thesis

"A Green Context-Aware Platform for Smart Living," Jan. 2014

Chun-Yu Chen, Yu-Jen Ku, Chih-Wei Ho, Yan-Ze Lin, and Chun-Ting Chou

"A Green Context-Aware Platform for Smart Living,"

IEEE International Conference on Service-Oriented Computing and Applications (SOCA), Dec. 2013

Yu-Chung Chen, Chun-Ting Chou and Chun-Yu Chen

"Cooperative localization for wireless and mobile social networking service (SNS),"

IEEE International Wireless Communications and Mobile Computing Conference (IWCMC), July 2011

National Taiwan University Presidential Award (1st Semester of 2011-2012 School Year)

- Awarded to the top 5% of students in the Department of Electrical Engineering each semester

SKILLS AND LANGUAGES

Programming: Android Programming, C/C++, C#, Java, JavaScript, PHP, Verilog

Script: UNIX Shell Script, Matlab, AWK

Database: MySQL, MongoDB

Other: MQTT, HTML

Languages: Chinese (Mandarin), English, Taiwanese