

Kevin Michael (Chi-Wen) Chen

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RESEARCH INTERESTS

Deep Learning, Interpretable Machine Learning, Wireless Signal Recognition for IoT, Network Communication, Signal Processing

EDUCATION

National Taiwan University (NTU) Taipei, Taiwan
Master of Science in Electrical Engineering, Computer Science Group 2015 – 2017

- Master Thesis: Automated Cloud Sandbox Deployment for Implementing DevOps
- Overall GPA: 3.5/4

National Cheng Kung University (NCKU) Tainan, Taiwan
Bachelor of Science in Photonics 2011 – 2015

EXPERIENCE

INSPIRE@OhioState Columbus, Ohio
Graduate Research Assistant 2022 – present

Advisor: Dr. Aylin Yener

The Ohio State University (OSU) Columbus, Ohio
PhD student in Electrical and Computer Engineering 2022 – present

Advisor: Dr. Parinaz Naghizadeh, co-advised by Dr. Aylin Yener

CITI, Academia Sinica Taipei, Taiwan
Full-Time Research Assistant, Advisor: Dr. Ronald Y. Chang 2019 – 2021

- 2 first-author IEEE publications on the issues of indoor localization with wireless signals [1],[2].
- Improved more than 5% performance on device-free indoor localization with CSI via deep learning.
- Developed a visual interpretation scheme for deep learning models for device-free indoor localization with CSI.
- Proposed a 20% improved accuracy semi-supervised GAN model on device-free indoor localization with 1% labeled samples, compared to supervised model.

Taipei Digital Group Taipei, Taiwan
Data Science Intern Summer, 2016

- Team-worked on a project to discriminate content farm from the website via machine learning approach.

Automated Verification & Software Testing Lab, NTU Taipei, Taiwan
Grad. Research Assistant, Advisor: Dr. Farn Wang 2015 – 2017

- Proposed a software framework *DevOpser* to speed up DevOps deployment with OpenStack. This paper was accepted into Taiwan Conference on Software Engineering (TCSE) 2017 best English paper finalist [3].

PUBLICATIONS

1. **Kevin M. Chen** and R. Y. Chang, “A Comparative Study of Deep-Learning-Based Semi-Supervised Device-Free Indoor Localization”, IEEE Global Communications Conference (GLOBECOM), December 2021
2. **Kevin M. Chen** and R. Y. Chang, “Semi-Supervised Learning with GANs for Device-Free Fingerprinting Indoor Localization”, IEEE Global Communications Conference (GLOBECOM), December 2020
3. **Kevin M. Chen**, R. Y. Chang and S.-J. Liu, “Interpreting Convolutional Neural Networks for Device-Free Wi-Fi Fingerprinting Indoor Localization via Information Visualization”, IEEE Access, vol. 7, pp. 172156-172166, 2019
4. **Chi-Wen Chen** and Farn Wang, “Automated Cloud Sandbox Deployment for implementing DevOps”, Taiwan Conference on Software Engineering (TCSE), July 2017

LANGUAGES AND SKILLS

Programming Languages: Python (*main*), Java, C++, MATLAB

Spoken Languages: Mandarin (*native*), Taiwanese (*native*), English (*fluent*), Japanese (*elementary*)

Technologies: Deep Learning (TensorFlow/Keras/scikit-learn), Web Design (HTML/CSS/JavaScript)

Others: Acoustic Guitar (*10+ years experience*), Illustration, Digital Painting, Photoshop

LEADERSHIP

Student Association of Photonics Department, NCKU 2013 – 2014

Director of Artistic Design

- Responsible for the design of our department’s uniform (3 times), stuff for activities, and building decoration.

Photonics Camp, NCKU Winter, 2014

Director of Artistic Design Section

- In charge of 100+ students camp’s theme, uniforms, poster and guide.

VOLUNTEER AND ACTIVITIES

Volunteer: Tutor at Municipal Sie-Jin Elementary School, Tainan, Taiwan 2014

- Tutored 20+ students 2 hours per week in English.

Artistic Design: Camp of University Life at NCKU 2013

Memberships: Department Baseball Team at NCKU, NTU Guitar Club

Music Competitions: NCKU Folk Award 2013, 2014, Tainan, Taiwan; STUST South Star 2015, Tainan, Taiwan

ACADEMIC SERVICES

Reviewer: IEEE International Conference on Communications (ICC) 2020, 2021

Presenter: IEEE Global Communications Conference (GLOBECOM) 2020