

# Kevin Michael (Chi-Wen) Chen

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## RESEARCH INTERESTS

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

## EDUCATION

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**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

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**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

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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

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**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

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**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

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**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

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

**Presenter:** IEEE Global Communications Conference (GLOBECOM) 2020