Chiu, Hong-Ming

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EDUCATION

National Chiao Tung University (NCTU)   **Hsinchu, Taiwan**
Bachelor in Electronics Engineering   **June 2017 – June 2020**
- Overall GPA: 4.03 / 4.3. Major GPA: 4.11/4.3.
- 2018 Spring Academic Achievement Awards: ranked 3rd out of 84 students.
- Exchange Student Scholarship: USD 10,000.

National Chiao Tung University (NCTU)   **Hsinchu, Taiwan**
Undergraduate, Department of Civil Engineering   **June 2016 – June 2017 (transfer to NCTU EE)**
- 2016 Fall Academic Achievement Awards: ranked 3rd out of 41 students.
- 2017 Spring Academic Achievement Awards: ranked 1st out of 41 students.

University of Illinois at Urbana Champaign (UIUC)   **Champaign, IL, USA**
Exchange Student in Electrical and Computer Engineering (ECE)   **January 2020 – May 2020**
- Overall GPA: 3.83 / 4.0.

RESEARCH EXPERIENCE

NCTU VLSI Signal Processing Lab   **Hsinchu, Taiwan**
Special Project on Electronics   **June 2018 – January 2019**
- Supervised by professor Tian-Sheuan, Chang.
- Research in adaptive pruning for Convolution Neural Network on object recognition. It enables the CNN model to adapt to different run-time needs in a mobile environment. This research is sponsored by the ministry of science and technology in Taiwan (paper published on ISCAS 2019).

NCTU Communication Electronics and Signal Processing Lab   **Hsinchu, Taiwan**
Special Project on Electronics   **March 2019 – July 2020**
- Supervised by professor Carrson C. Fung.
- Research in graph learning algorithm for received signal power interpolation problem, which is an essential technology for implementing preemptive resource allocation in location-aware communications. This research is sponsored by the ministry of science and technology in Taiwan (paper published on EUSIPCO 2020).

USC Signal Transformation, Analysis and Compression Group   **Los Angeles, CA, USA**
Research Collaboration Internship   **July 2019 – August 2019**
- Collaborated with professor Antonio Ortega on the received signal power interpolation research.
- Evaluating and implementing multiple graph learning methods to design a novel graph-based estimation approach to solve the received signal power interpolation problem in location-aware communications.

UIUC Coordinated Science Lab   **Champaign, IL, USA**
Special Project on Electronics   **January 2020 – May 2020**
- Supervised by professor Venugopal V. Veeravalli.
- Built a demo for the model change detection system on landmines dataset, which utilized machine learning algorithms to classify landmines data collected from different surface conditions.

NCTU Artificial Intelligence and Multimedia Lab   **Hsinchu, Taiwan**
Full-time Research Assistant   **July 2020 – Present**
- Worked on knowledge graph based explainable recommender system research with professor Wen-Huang, Cheng, aiming to generate accurate and explainable recommendations in various applications.
- Led a team in developing road hazard detection using Surveillance cameras to facilitate autonomous driving car systems to avoid traffic accidents.
- ACM MM 2020 paper reviewer.
- Assisting the arrangement of The 33rd IPPR Conference on Computer Vision, Graphics, And Image Processing (CVGIP 2020) in Taiwan.

EXTRACURRICULAR ACTIVITIES

IEEE Eta Kappa Nu, Mu Sigma Chapter   **Hsinchu, Taiwan**
Recording Secretary   **May 2019 – May 2020**
- Communicated with staff in NCTU; invited foreign alumni to give a speech about school life and life in the U.S.; organized workshops.
- Participated in IEEE-HKN Student Leadership Conference 2019 in Boston.

NCTU IEEE Student Bench   **Hsinchu, Taiwan**
Finance and Secretary   **March 2019 – March 2020**
- Built a bridge between foreign alumni and students in NCTU, which provides a platform for NCTU students to get a piece of advice from foreign alumni.
- Coordinated the sharing activities and alumni speeches for students in NCTU.

AIESEC in Taiwan   **Hsinchu, Taiwan**
Incoming Global Community Development Program Manager   **March 2017 – July 2017**
- Organized tour around Taiwan with 8 college students from different countries.
- Organized international culture workshop for high school students in Hsinchu.
- Invited college students around the world to attend the volunteering job in rural schools for culture exchange and English lectures in Hsinchu, Taiwan.

NCTU Department Table Tennis Team   **Hsinchu, Taiwan**
Team Member   **June 2017 – June 2020**
- Win 1st place in an interscholastic match in 2019.

SKILLS & INTERESTS

Languages	Fluent in Mandarin; Conversational Proficiency in English.
Technical Skills	MATLAB, C++, Python, Verilog, System Verilog, LaTeX.
Interests	Big Data, Machine Learning, Algorithm Design, Hardware Design.

PUBLICATION

[1] **Hong-Ming Chiu**, Kuan-Chih Lin and Tian Sheuan Chang, "Run Time Adaptive Network Slimming for Mobile Environments," 2019 IEEE International Symposium on Circuits and Systems (ISCAS).
[2] **Hong-Ming Chiu**, Carrson C. Fung and Antonio Ortega, "Graph Learning and Augmentation Based Interpolation of Signal Strength for Location-Aware Communications," 2020 European Signal Processing Conference (EUSIPCO).