

AFFILIATION

1. Department of Computer Science & Information Engineering, National Taiwan University, Taiwan
2. Research Center for Information Technology Innovation, Academia Sinica, Taiwan
3. Department of Electrical and Computer Engineering, University of California, San Diego, USA

CONTACT INFORMATION

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EDUCATION

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|---|--------------|
| Ph.D. candidate | 2016-present |
| <ul style="list-style-type: none">➤ Department of Computer Science & Information Engineering, National Taiwan University, Taiwan➤ Advisor: Prof. Tei-Wei Kuo➤ Research Fields: operating systems, embedded device systems, speech signal processing, deep learning-based noisy speech enhancement | |
| M.S | 2015-2016 |
| <ul style="list-style-type: none">➤ Department of Computer Science & Information Engineering, National Taiwan University, Taiwan➤ Advisor: Prof. Tei-Wei Kuo➤ Research Fields: Android operating systems, embedded device systems, IoT wearable systems, energy efficiency | |
| B.S. | 2011-2015 |
| <ul style="list-style-type: none">➤ Department of Computer Science & Information Engineering, National Taiwan University, Taiwan | |

EXPERIENCES

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|---|---------------------|---|-------------------|
| ➤ | Visiting Scholar, | Electrical and Computer Engineering, University of California San Diego, USA | Jul. 2020-present |
| ➤ | Research Assistant, | Research Center for Information Technology Innovation, Academia Sinica, Taiwan | 2017-present |
| ➤ | Teaching Assistant, | Operating Systems, NTU (<i>Prof. Chih-Wen Hsueh</i>) | Spring 2019 |
| | | Operating Systems, NTU (<i>Prof. Tei-Wei Kuo</i>) | Spring 2018 |
| | | Operating Systems, NTU (<i>Prof. Tei-Wei Kuo</i>) | Spring 2017 |
| | | Discrete Mathematics NTU (<i>Prof. Yuh-Dauh Lyuu</i>) | Spring 2016 |

PUBLICATIONS

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1. Szu-Wei Fu, Chien-Feng Liao, Tsun-An Hsieh, Kuo-Hsuan Hung, Syu-Siang Wang, Cheng Yu, Heng-

- Cheng Kuo, Ryandhimas E. Zezario, You-Jin Li, Shang-Yi Chuang, Yen-Ju Lu, **Yu-Chen Lin**, Yu Tsao, “Boosting Objective Scores of a Speech Enhancement Model by MetricGAN Post-processing,” in *Asia-Pacific Signal and Information Processing Association (APSIPA)*, Dec. 2020.
2. Chi-Chang Lee, **Yu-Chen Lin**, Hsuan-Tien Lin, Hsin-Min Wang, Yu Tsao, “SERIL: Noise Adaptive Speech Enhancement using Regularization-based Incremental Learning,” in *INTERSPEECH*, Oct. 2020.
 3. **Yu-Chen Lin**, Yi-Te Hsu, Szu-Wei Fu, Yu Tsao, and Tei-Wei Kuo, “IA-NET: Acceleration and Compression of Speech Enhancement using Integer-adder Network,” in *INTERSPEECH*, Sep. 2019.
 4. **Yu-Chen Lin**, Pi-Cheng Hsiu and Tei-Wei Kuo, “Autonomous I/O for Intermittent IoT Systems,” in *IEEE/ACM International Symposium on Low Power Electronics and Design (ISLPED)*, Jul. 2019.
 5. Yi-Te Hsu, **Yu-Chen Lin**, Szu-Wei Fu, Yu Tsao, and Tei-Wei Kuo, “A study on speech enhancement using exponent-only floating point quantized neural network (EOFP-QNN),” in *IEEE Spoken Language Technology (SLT)*, Dec. 2018.

ACADEMIC ACTIVITIES

A. Activities

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| 1. Attendance of the INTERSPEECH 2020 | Oct. 26-29, 2020 |
| 2. Speaker of the Doctoral Consortium Program at the 31st annual Conference on Computational Linguistics and Speech Processing (ROCLING 2019) | Oct. 3-5, 2019 |
| 3. Speaker of the INTERSPEECH 2019 | Sep. 15-19, 2019 |
| 4. Speaker of the 25 th ACM/IEEE International Symposium on Low Power Electronics and Design (ISLPED) | Jul. 29-31, 2019 |
| 5. Speaker of the IEEE Spoken Language Technology (SLT) 2018, Athens, Greece | Dec. 18-21, 2018 |
| 6. Co-Host of Open House, Academia Sinica -title “HomeRun: HW/SW Co-Design for Program Atomicity on Self-Powered Intermittent Systems” | Oct. 27, 2018 |
| 7. Co-Host of Open House, Academia Sinica -title “Similarity-Based Wakeup Management for Mobile Systems in Connected Standby” | Oct. 28, 2017 |
| 8. Attendance of the 23 rd IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA) | Aug. 16-18, 2017 |
| 9. Attendance of the 6 th IEEE Non-Volatile Memory Systems and Applications Symposium (NVMSA) | Aug. 16-18, 2017 |
| 10. Staff member of the 23 th ACM/IEEE International Symposium on Low Power Electronics and Design (ISLPED) | Jul. 24-26, 2017 |

B. Journal and Conference Paper review as External Reviewer

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| 1. ACM/IEEE International Symposium on Low Power Electronics and Design (ISLPED) | Apr. 2020 |
| 2. IEEE/ACM Design Automation Conference (DAC) | Jan. 2020 |
| 3. IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) | Dec. 2019 |
| 4. Transaction on Computers (TC) | Aug. 2019 |
| 5. Manuscripts of the Real-Time Systems (RTS) | Jun. 2019 |

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| 6. | ACM/IEEE International Symposium on Low Power Electronics and Design (ISLPED) | Apr. 2019 |
| 7. | International Workshop on Next-Generation Operating Systems for Cyber-Physical Systems (NGOSCPS) | Feb. 2019 |
| 8. | ACM/IEEE International Symposium on Low Power Electronics and Design (ISLPED) | Apr. 2018 |
| 9. | International Conference on Embedded Software (EMSOFT) | May. 2017 |
| 10. | ACM/IEEE International Symposium on Low Power Electronics and Design (ISLPED) | Apr. 2017 |
| 11. | Workshop on Embedded and Cyber-Physical Systems Education (WESE) | Aug. 2016 |
| 12. | International Conference on Embedded Software (EMSOFT) | May. 2016 |

AWARDS

1. **Scholarship** in “2019 Graduate Students Study Abroad Program”, Ministry of Science and Technology, Taiwan (R.O.C.)
2. 2018 Spring Excellent Teaching Assistant (優良助教) – Operating Systems
3. **Scholarship** in “Program of Research Performance Enhancement via Students Entering PhD Programs Straight from an Undergraduate/Master's Program”, (Sep. 2018-Aug. 2019)
4. **Scholarship** in “Program of Research Performance Enhancement via Students Entering PhD Programs Straight from an Undergraduate/Master's Program”, (Sep. 2017-Aug. 2018)
5. **Scholarship** in “Program of Research Performance Enhancement via Students Entering PhD Programs Straight from an Undergraduate/Master's Program”, (Sep. 2016-Aug. 2017)

SKILLS

Programming Languages: C/C++, Verilog, Python, Java, MATLAB

Tools: TensorFlow, Keras, Theano

Development domains: Linux kernel programming, nonvolatile processor wearable devices