Yu-Wen Chen

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Research Interests

Speech Processing, Natural Language Processing, Multimodal Learning, Machine Learning

Education

Columbia University in the City of New York — **New York, United States**
Ph.D. student *in Computer Science* — **Sep 2022 - Present**
- Speech Lab, Advisor: Prof. Julia Hirschberg

National Taiwan University (NTU) — **Taipei, Taiwan**
M.S. *in Electrical Engineering, Computer Science,* ***GPA: 4.11/4.3*** — **Sep 2017 - Jun 2019**
- Taiwan Evolutionary Intelligence Laboratory, Advisor: Prof. Tian-Li Yu
- Coursework: Artificial Intelligence, Computer Vision, Digital Speech Processing, Genetic Algorithms, Machine Learning, Natural Language Processing

National Cheng Kung University — **Tainan, Taiwan**
B.S. *in Electrical Engineering,* ***GPA: 92.05/100, Ranking: 2/37*** — **Sep 2013 - Jun 2017**
- **Outstanding student for the academic achievement in the school year 2013-2014, 2014-2015, and 2015-2016**
- Coursework: Algorithm, Computer Networks, Computer Organization, Database, Data Mining, Data Structures, Image Processing, Operating System, Software Engineering, Web Programming

Employment

Research Center for Information Technology Innovation, Academia Sinica — **Taipei, Taiwan**
Research Assistant, Biomedical Acoustic Signal Processing Lab — **Feb 2020 - Aug 2022**
- Principal Investigator: Prof. Yu Tsao
- Research Areas: Speech assessment, Speech Enhancement, Speech Processing, Multimodal Learning, Machine Learning

Industrial Technology Research Institute — **Hsinchu, Taiwan**
Intern, Electronic and Optoelectronic System Research Laboratories — **Nov 2017 - Jun 2019**
- Research Areas: Computer Vision, Health Care Applications, Machine Learning

Publications

- **Chen, Y. W.**, Wang, H. M., & Tsao, Y. (2023) **"BASPRO: A balanced script producer for speech corpus collection based on the genetic algorithm."** *APSIPA Transactions on Signal and Information Processing: Vol. 12: No. 3.*
- **Chen, Y. W.**, & Tsao, Y. (2022). **"InQSS: a speech intelligibility and quality assessment model using a multi-task learning network**." *INTERSPEECH, 3088-3092.*
- **Chen, Y. W.**, Hung, K. H., Li, Y. J., Kang, A. C. F., Lai, Y. H., Liu, K. C., ... & Tsao, Y. (2022) **"CITISEN: a deep learning-based speech signal-processing mobile application."** *IEEE Access, 10, 46082-46099.*
- **Chen, Y. W.**, Hung, K. H., Chuang, S. Y., Sherman, J., Huang, W. C., Lu, X., & Tsao, Y. (2021) **"EMA2S: An end-to-end multimodal articulatory-to-speech system."** *IEEE International Symposium on Circuits and Systems (ISCAS), 1-5.*
- **Chen, Y. W.**, Hung, K. H., Chuang, S. Y., Sherman, J., Lu, X., & Tsao, Y. (2021) **"A study of incorporating articulatory movement information in speech enhancement."** *IEEE European Signal Processing Conference (EUSIPCO), 496-500.*

https://scholar.google.com/citations?user=8r7SRL0AAAAJ&hl=en