

Yu-Wen Chen

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EDUCATION

Columbia University in the City of New York **New York, NY, United States**
Ph.D. student in Computer Science **Sep 2022 - Present**

- Speech Lab, Advisor: Prof. Julia Hirschberg

National Taiwan University **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

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**

EMPLOYMENT

Amazon **Seattle, WA, United States**
Applied Scientist Intern, AGI-Automatic Speech Recognition **May 2024 - Aug 2024**

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

Industrial Technology Research Institute **Hsinchu, Taiwan**
Intern, Electronic and Optoelectronic System Research Laboratories **Nov 2017 - Jun 2019**

PUBLICATIONS

Peer-Reviewed Conference/Journal Papers

- **Chen, Y. W., Yu, Z., & Hirschberg, J., (2024) “MultiPA: A Multi-task Speech Pronunciation Assessment Model for Open Response Scenarios,”** accepted by *INTERSPEECH*.
- **Zevario, R. E., Chen, Y. W., Fu, S. W., Tsao, Y., Wang, H. M., & Fuh, C. S. (2024). “A Study on Incorporating Whisper for Robust Speech Assessment,”** accepted by *IEEE International Conference on Multimedia and Expo (ICME)*.
- **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, ... & 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.

Peer-Reviewed Workshop Papers

- **Chen, Y. W., & Hirschberg, J.** (2024). **“Exploring Robustness in Doctor-Patient Conversation Summarization: An Analysis of Out-of-Domain SOAP Notes,”** accepted by *Clinical NLP Workshop 2024*.

TEACHING

Teaching Assistant

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|---|--|
| - COMS-E6998 Advanced Topics in Spoken Language Processing
Instructors: Julia Hirschberg | Columbia University
Spring 2024 |
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Instructors: Julia Hirschberg | Columbia University
Spring 2023 |