

Yu-Wen Chen

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GitHub: yuwchen

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*.
- Zezario, 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 |