

Yu-Ling Liao

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Education

National Taiwan University, M.S. in **Graduate Institute of Networking and Multimedia** Feb 2026 - Present

- Graduate Researcher, NTU NLP Lab (Advisor: Prof. Hsin-Hsi Chen)
- Research Interest: Exploring Bias and Robustness Analysis of Multimodal Large Language Models

National Taiwan University, B.S. in **Mathematics** Sept 2021 - Jan 2026

- Coursework: Statistics (Math, A+), Machine Learning (CSIE, A), Natural Language Processing (CSIE, A-), Advanced Interactive Technologies (CSIE, A)

Publications

S.L. Wei*, **Y. L. Liao***, Y. H. Chang, H. H. Huang, H. H. Chen. *Bias in the Ear of the Listener: Assessing Sensitivity in Audio Language Models Across Linguistic, Demographic, and Positional Variations*. arXiv: 2602.01030. Accepted to Findings of EACL 2026. *Equal contribution Feb 2026

S.L. Wei, **Y. L. Liao**, H. H. Huang, H. H. Chen *Do Multimodal LLMs Understand Order? Measuring the Fragility of Multimodal Reasoning under Input Order Perturbations*. Accepted to LREC 2026. Oct 2025

Projects

Audiooo: a web app for customizable binaural soundscapes. [github.com] Spring 2025

- Redesigns real-world soundscape by replacing unwanted noises (traffic, screams) with user-chosen ambience (birds, music).
- Detects sound type and direction, then applies user-defined effect packs with real-time 3D headphone rendering; built as a lightweight Python web app.

Game Development Project [game page] Fall 2024

- Designed and developed a fast-paced platformer in **Unity**, aiming to create an “addictive” bite-sized game that trains reaction time and route-planning skills.
- Implemented responsive movement physics and iterated level design to tune challenge and difficulty progression.

Donor Behavior Prediction Using ML [github.com] Spring 2024

- Understand donation trends by data analysis and predict future donor behavior using ML models (Decision Tree, Random Forest, SVC, and XGBoost)

Experience

NTU NLP LAB, Undergraduate Intern Student June 2025 - Jan 2026

- Research Topic: Exploring the selection bias on multiple-choices questions in Multimodal Large Language Models

Institute of Mathematics Academia Sinica, Summer Intern June 2025 - July 2025

- International Summer School 2025 - Nonstationary time series analysis for biomedical artificial intelligence

NTU MATH \LaTeX Teaching Staff June 2022 - June 2023

- Build up \LaTeX tutorial video in YouTube: <https://youtube.com/@latex4703>

Skills

Programming Languages: Python (main), C/C++, MATLAB, OpenSCAD

Languages: Chinese (mother language), English (TOEIC 890), Korean (TOPIK I)