

Chang-Yu Tsai

MA in Linguistics, NCCU
BA in Chinese Literature, NTPU

+886 932872107
entropia.changyu@gmail.com
[linkedin.com/in/changyutsai](https://www.linkedin.com/in/changyutsai)

CURRENT POSITION

Feb. 2025 - Present
Taipei, Taiwan

Research and Teaching Assistant

- Developed NLP pipelines using PyTorch, covering tasks such as classification, sequence labelling, seq2seq, and topic modelling.
- Contributed to data analysis, from preprocessing and statistical analysis
- Published open-source NLP materials on GitHub, featuring hands-on notebooks and model implementation.

PROJECTS

Oct. 2024 - Feb. 2025

Customised GPT “Sin-khu Liah Jit-le”

- Used prompt engineering and in-context learning to identify the target entities.
- Expected to develop the AI healthcare services, combining speech recognition.

Nov. 2022 - Mar. 2023

Browser game “MisInfoDex: Brave Expedition”

- Created an immersive learning experience by integrating storytelling and gameplay to learn language patterns of misinformation.

Aug. 2022 - Nov. 2022

LINE bot “MisInfoDex”

- Designed and developed a learning-oriented bot on LINE, a major social messaging app widely used in Taiwan.
- Demonstrated the project results and promoted the LINE bot at the 2022 Taiwan IT Month, gaining over 100 users during the event.

RESEARCH WORKS

Jan. 2025

Master’s Thesis

- *Entity Extraction and Semantics Exploration of Body Part Names In Taiwan Southern Min Healthcare Texts*

Oct. 2022

Conference Paper: NCL 23

- *Popular Comment Detection on Social Media: Taking Dcard for Example*

Sep. 2020 - Jan. 2025

Term Projects

- *Pronunciation Variations of Voiced Stops [b] and [g] among Younger Taiwanese Speakers*
- *Cooperative Principles Analysis of Political Discourse: Case Study of Taiwan Political Figures*
- *Entropy Approach of Mandarin-Speaking Children's Language Diversity*

WORK EXPERIENCES

Mar. 2025 - Mar. 2025

Stuttgart, Germany

Booth Assistant - Fastener Fair Stuttgart 2025

- Greeted visiting professionals, introduced company products, and supported booth operations.
- Communicated with international visitors in English to deliver product overviews and respond to inquiries.

Aug. 2022 - Jan. 2025

Taipei, Taiwan

Teaching Assistant

- The Humanity and Science of Language
 - Led a team of 8 teaching assistants, coordinating tasks and bridging communication with three instructors.
- Exploring Language Application in Daily Technology
 - Designed and conducted lab sessions on Python for NLP tasks.
- Taiwan Southern Min and Taiwan Culture
 - Led discussion sessions on the linguistic properties of Taiwan Southern Min and the development of Taiwanese culture.

SIDE PROJECTS



Personal website: entropiatsai.github.io

This website provides more information about me and showcases my portfolio. You can click the link or scan the QR code to visit.

PROGRAMMING & TOOLS

Python, R, GCP, Praat, LaTeX, Linux CLI

LANGUAGES

Mandarin (native), Taiwanese (native)
English (fluent), German (basic)