
EDUCATION

- **National Taiwan University (NTU)** Taipei, Taiwan
Bachelor's degree in Computer Science and Information Engineering Sept. 2020 – Jun. 2025
Bachelor's degree in Sociology Sept. 2021 – Jun. 2025
 - Recipient of the 2020 National Taiwan University Fu Bell Entrance Scholarships (70 out of 3758 students).
 - Completed one-year exchange program at KTH Royal Institute of Technology in Sweden from 2022 to 2023.

EXPERIENCE IN COMPUTER SCIENCE

- **Thingnario** Taipei, Taiwan
Site Reliability Engineering Intern Jun. 2023 – Aug. 2023
 - Integrated testing scripts across diverse GCP servers using the centralized scheduler/runner Cronicle, consolidating error messages into an Elasticsearch-powered database for streamlined log analysis and more effective troubleshooting.
- **Research Institutes of Sweden (RISE)** Stockholm, Sweden
Research Intern, supervised by Dr. Paris Carbone Apr. 2023 – Jul. 2023
 - Dockerized and refactored the Java-based throughput assessment of machine learning models across various stream-processing frameworks (e.g., Apache Flink, Kafka Streams, and Spark Streaming) to simulate real-world performance in an industrial setting, leading to its acceptance at EDBT/ICDT 2024.
- **Mobagel** Taipei, Taiwan
Software Engineer Intern Jun. 2022 – Aug. 2022
 - Developed error codes for Decanter AI's AutoML Scala-based system, optimizing data processing, model training, and prediction request handling, which improved error message feedback on the web frontend.
 - Optimized the "sanitizing" module responsible for managing special characters in file headers during user dataset uploads, enhancing data quality and user experience.
- **Sensay** United States (Remote)
Machine Learning Intern Jul. 2021 – Aug. 2021
 - Enhanced automated speech assessment on Sensay's English learning platform by applying machine learning techniques from early ETS research (2008–2014), improving the scoring system based on the company's dataset.
 - Developed an interactive audio visualization feedback system for language learning, integrating insights from academic research on acoustic feature visualization for pronunciation training, fostering a more engaging and effective platform for students.
- **Innoveon** Taipei, Taiwan
Deep Learning Intern Jul. 2020 – Sept. 2020
 - Developed an image alignment algorithm for defect detection in racket production, incorporating techniques from four influential papers on convolutional neural networks (CNNs).
 - Conducted experiments on data augmentation using the company's dataset, applying feature disentanglement methods from three key papers on variational autoencoders (VAEs).
- **Institute of Information Science, Academia Sinica** Taipei, Taiwan
High School Research Project, supervised by Dr. Li Su Aug. 2018 – Jul. 2020
 - Published a first-authored paper "Body Movement Generation for Expressive Violin Performance Applying Neural Networks" in ICASSP 2020. [\[IEEEExplore\]](#)
 - Developed a neural network-based framework with Keras to generate expressive violin performance body skeletons.
 - Conducted comprehensive subjective and objective evaluations to assess the likeness and naturalness of the generated skeletons.

EXPERIENCE IN SOCIOLOGY

- **Institute of European and American Studies, Academia Sinica** Taipei, Taiwan
Research Assistant, supervised by Dr. Min-Hsiung, Huang Apr. 2024 – Jul. 2024
 - Analysed cross-national longitudinal datasets, such as Programme for International Student Assessment (PISA) and the Taiwan Educational Panel Survey (TEPS), to investigate educational inequality in Taiwan.
- **Institute of Sociology, Academia Sinica** Taipei, Taiwan
Research Assistant, supervised by Dr. Hsuan-Wei Lee Sept. 2021 – Feb. 2023
 - Replicated 21 agent-based modeling papers from the sociology journals AJS and ASR using Python, ensuring rigorous reproducibility standards and enhancing the reliability of sociological research methodologies.

ACTIVITIES

- **2022 & 2023 APCS Camp** Taipei, Taiwan
C++ Lecturer Mar. 2022 – Jul. 2023
 - Designed teaching materials and delivered online lectures on fundamental concepts of functions and recursion in C++ to 80 high school students, aiding their preparation for the Advanced Placement Computer Science (APCS) test in Taiwan.