

# Wei-Yu Chen

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## Education

### National Taiwan University (NTU)

B.S. in Engineering (Department of Electrical Engineering)  
Double Major: B.A. in Economics (Department of Economics)

Taipei, Taiwan

Sep 2020 - Jun 2024

- GPA: 4.21/4.3
- Rank: 8 out of 202

### National Tainan First Senior High School

High School Diploma

Tainan, Taiwan

Sep 2017 - Jun 2020

- Program for students gifted in science
- Top 2% of the school

## Research Experiences

### Institute of Information Science, Academia Sinica

#### MuZero Decoder

Undergraduate Research Assistant/Intern

Taipei, Taiwan

Jul 2023 - Aug 2024

- Incorporate a decoder network into MuZero to improve the interpretability of the model.
- Evaluate the unrolling performance and the planning performance of MuZero with the decoder.

### NTU Robot Learning Lab, National Taiwan University

#### Skill Interpolation with Language Guidance

Undergraduate Research Assistant

Taipei, Taiwan

Sep 2022 - May 2024

- Obtain relations among a set of predefined MuJoCo skills via large language models (LLMs) and semantic embeddings for the training of a new skill.
- Accelerate the training of a new skill through its relation to the predefined skills.

### Special Project with Prof. Jian-Jiun Ding

#### Japanese Lip Reading

Undergraduate Research Assistant

Taipei, Taiwan

Feb 2024 - May 2024

- Collect image data from Youtube and train neural networks for Japanese lip reading.

### Hybrid Robotics, University of California, Berkeley

#### Large Language Model for the Emotional Robot

Summer Research Intern

California, USA (Remote)

Jun 2023 - Sep 2023

- Given a scenario, generate emotional and meaningful scripts of the Unitree A1 quadruped robot through self-adjustment performed by two ChatGPT API instances.
- Predefine a set of quadruped robot skills with videos constructed by Blender and correspond them to the scripts.

### Electrical Engineering Lab (topics on Communication System)

#### Term Project: Quantum Transfer Learning

Course Participant

Taipei, Taiwan

Nov 2022 - Dec 2022

- Append classical layers and quantum layers to classical pre-trained models and reveal the limitation of hybrid classical-quantum networks after analyzing their performances.

## Publications

Hung Guei, Yan-Ru Ju\*, **Wei-Yu Chen\***, and Ti-Rong Wu. Interpreting the Learned Model in MuZero Planning. *The 29th International Conference on Technologies and Applications of Artificial Intelligence (TAAI 2024)*.

## Awards

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### The Runner-Up Paper Award

2024 Conference on Technologies and Applications of Artificial Intelligence (TAAI 2024)

*Hsinchu, Taiwan*

*Dec 2024*

- The award for the paper: Interpreting the Learned Model in MuZero Planning.

### AUO Gold Sponsor Prize

2023 MakeNTU—Eureka

*Taipei, Taiwan*

*May 2023*

- Build a proof-of-concept smart car system incorporated innovative functionalities.

## Skills

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**Languages** English, Mandarin (Chinese), Hokkien, Japanese.

**Programming** Python, C++, Bash/Shell, MATLAB.

**Math** Linear Algebra, Discrete Mathematics, Probability.

**Others** Machine Learning, Reinforcement Learning, Git, Data Structures, Algorithms.

## General Examinations

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**Graduate Record Examination (GRE)** Verbal 167/170, Quantitative 170/170, AWA 3.5/6.0

**Test of English as a Foreign Language (TOEFL)** R 30/30, L 28/30, S 23/30, W 27/30

## Extracurricular Activities

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### Hometown Voluntary Service Education Camp

*Jan 2021*

- Organize entertaining activities for elementary school students.

### Remote Area Voluntary Service Education Camp

*Aug 2017, Aug 2018*

- Design interesting classes to teach elementary school students advanced concepts.

## Links

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**Personal Website:** <https://jasperora.github.io/>

**Github:** <https://github.com/Jasperora>