

Sin-Han Yang

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Education

National Taiwan University

B.S. in Computer Science and Engineering

- Double Major in Physics
- GPA: 4.08/4.3

Taipei, Taiwan

Sept. 2019 - PRESENT

University of Birmingham

Exchange Student in Computer Science

Birmingham, UK

Sept. 2022 - Jan. 2023

Research Experiences

Electrical and Computer Engineering Department, Princeton University

Visiting Student

- Advisor: [Prof. Jason D. Lee](#)
- Work on the theoretical aspect of the continual learning

Remote

Jun. 2023 - PRESENT

Computer Science and Engineering Department, UC San Diego

Visiting Student

- Advisor: [Dr. Tsui-Wei \(Lily\) Weng](#)
- Focus on the interpretability of neural network
- Use model's explanations to improve the performance in the continual learning setting [P1]

Remote

Jun. 2022 - May 2023

Nature Language Processing Laboratory, NTU

Undergraduate Researcher

- Advisor: [Prof. Hsin-Hsi Chen](#)
- Focus on fake news detection, design a new architecture for interpretability [C1]
- Gain the ability to find interesting topics, and implement ML projects

Taipei, Taiwan

Nov. 2021 - PRESENT

Research Center for Information Technology Innovation, Academia Sinica

Research Assistant

- Advisor: [Dr. Gen-Cher Lee](#)
- Modify communication software's source code to extend functionality
- Gain the ability to understand, modify and test big open source software

Taipei, Taiwan

Jan. 2021 - Jan. 2022

Center for Quantum Frontier of Research and Technology, NCKU

Research Assistant

- Advisor: [Prof. Yueh-Nan Chen](#)
- Derive the theory and do experiments on "Quantum Steering" effect
- Use IBMQ's python module to simulate qubit, then apply to real data

Tainan, Taiwan

Jul. 2020 - Aug. 2020

Publications

Preprint

- [P1] **Sin-Han Yang**, Tuomas Oikarinen, Tsui-Wei Weng, Mitigating Catastrophic Forgetting in Neural Networks Through Controlled Concepts, *Submitted*, May 2023.

Conference Papers

- [C1] **Sin-Han Yang**, Chung-Chi Chen, Hen-Hsen Huang and Hsin-Hsi Chen, [Entity-Aware Dual Co-Attention Network for Fake News Detection](#), in *Findings of the Association for Computational Linguistics: EACL 2023*, May 2023.

Work Experience

NTU COOL

Research Assistant

- Manager: [Prof. Hsin-Mu Tsai](#) and [Prof. Hung-Yi Lee](#)
- Use Large Language Model to generate subtitles automatically

Taipei, Taiwan
Jul. 2023 - PRESENT

Honors & Awards

Appier Best R&D Award and CSIE 3rd Place

NTU CSIE Bachelor Research Exhibition

Taipei, Taiwan
2023

College Student Research Scholarship

National Science Council (NSC)

- NSC scholarship for excellent students based on written research proposal

Taipei, Taiwan
2023

NTU Y.L.LIN Scholarship

- For exchange students

Taipei, Taiwan
2022

NTU Dean's List Award

Taipei, Taiwan
2021

Final Selection and Training Camp

IPHO (International Physics Olympics) Taiwan team

Taipei, Taiwan
2018

Skills

- **Program Languages** Python, MATLAB, C++
- **Others** PyTorch, Git, \LaTeX