

# Sin-Han Yang

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## Education

### National Taiwan University

B.S. in Computer Science and Information Engineering

- Double Major in Physics

Taipei, Taiwan

Sept. 2019 - PRESENT

### University of Birmingham

Exchange Student in Computer Science

Birmingham, UK

Sept. 2022 - Jan. 2023

## Research Experiences

### Computer Science and Engineering Department, UC San Diego

Remote

Visiting Student

Jun. 2022 - PRESENT

- 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]

### Electrical and Computer Engineering Department, Princeton University

Remote

Visiting Student

Jun. 2023 - Sep. 2023

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

### Nature Language Processing Laboratory, NTU

Taipei, Taiwan

Undergraduate Researcher

Nov. 2021 - PRESENT

- 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

### Research Center for Information Technology Innovation, Academia Sinica

Taipei, Taiwan

Research Assistant

Jan. 2021 - Jan. 2022

- 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

### Center for Quantum Frontier of Research and Technology, NCKU

Tainan, Taiwan

Research Assistant

Jul. 2020 - Aug. 2020

- 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

## 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.

## Honors & Awards

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**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)

Taipei, Taiwan

- NSC scholarship for excellent students based on written research proposal

2023

**NTU Y.L.LIN Scholarship**

Taipei, Taiwan

- For exchange students

2022

**NTU Dean's List Award**

Taipei, Taiwan

2021

**Final Selection and Training Camp** IPHO (International Physics Olympics) Taiwan team

Taipei, Taiwan

2018

## Skills

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- **Program Languages** Python, MATLAB, C++
- **Others** PyTorch, Git,  $\text{\LaTeX}$