

Yi-Li Hsu CV

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EDUCATION

National Tsing Hua University (NTHU) **Hsinchu, Taiwan**
PhD Student of Computer Science (CS) 08/2022- Present

National Tsing Hua University (NTHU) **Hsinchu, Taiwan**
Master of Computer Science (CS) 09/2021- 06/2025

GPA: 4.3/4.3

National Tsing Hua University (NTHU) **Hsinchu, Taiwan**
Bachelor of Computer Science (CS) 09/2018-06/2021

Major GPA: 3.85/4.3, Advanced GPA: 3.99/4.3

- Selected Coursework: Natural Language Processing, Data Literacy, Machine Learning

Tübingen University **Tübingen, Germany**
Exchange Program of Computer Science (CS) 10/2019–02/2020

- Studied Deep Learning, Web Programming with PHP and Data Literacy

HONORS / SCHOLARSHIP

- President Scholarship issued by National Tsing Hua University 2022/09
- Appier AI and Information Technology Research Award 2022/05
- TAAI scholarship issued by Taiwanese Association for Artificial Intelligence 2022/05
- Outbound Exchange student Scholarship issued by National Tsing Hua University 2019/12

RESEARCH EXPERIENCE

Department of Computer Science, National Yang Ming Chiao Tung University (NYCU) **Hsinchu, Taiwan**
Teaching Assistant of Natural Language Processing Course 02/2022 – 06/2022

- Preparing and teaching for the programming homework and final program
- Tracking attendance, recording online courses, grading assignments, and calculating grades

Natural Language Processing and Sentiment Analysis Lab, Academia Sinica **Hsinchu, Taiwan**
Graduate Research Assistant of Dr. Lun-Wei Ku 06/2021 – 06/2022

- Created a novel method for counterfactual explanations of fake news, which obtain 70% of accuracy and better human preference compare than current existing summarization-based explanations (Publication [1])

Computer Systems Lab, Academia Sinica **Hsinchu, Taiwan**
Undergraduate Research Assistant of Dr. Yuan-Hao Chang 07/2018 – 06/2021

- Investigated on optimization of non-volatile memory storage architecture with hashing, which reduced the insertion failure of Cuckoo by 60% and increased the success rate by 25%

PUBLICATIONS

- Ask to know more: Generating Counterfactual Explanations for Fake Claims. **Yi-Li Hsu***, Shih-Chieh Dai*, AiPing Xiong, Lun-Wei Ku. *The 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD '22) (Oral)*

*equally contributed

WORK EXPERIENCE

Commerce Connector **Taipei, Taiwan**
Data Engineer Intern 06/2020 – 2021/05

- Maintained and enhanced crawling system structure with python to improve overall performance
- Crawled product information from a variety of retailer platform's with Scrapy and Selenium
- Assisted in manage all crawling projects with Amazon Web Services

National Tsing Hua University – Institute of Service Science **Hsinchu, Taiwan**
Software Engineer Assistant 03/2020 – 08/2020

- Coordinated with user experience designer and develop a web-based application prototype built in Axure
- Assisted in backend developing, debugging, prototyping and designing in web application with Ruby on rails

Bridgewell*Data Management Platform Intern***Taipei, Taiwan**

07/2019 – 09/2019

- Analyze millions of user preferences with cookies in order to give commercial strategy suggestions
- Visualized business statistics with new visualization tools including Matplotlib, Kibana, ElasticSearch

LEADERSHIP AND OTHER EXPERIENCE

National Tsing Hua University - Student Association*Vice Academic President***Hsinchu, Taiwan**

01/2017 – 06/2017

- Assisted with pursuing student rights and better communication between students and school authorities

National Tsing Hua University - TEDxNTHU*Academic President***Hsinchu, Taiwan**

09/2017 – 06/2018

- Assisted with hosting a annually formal forum which invites people to share their idea and make impacts
- Headed a team of 6 people and been responsible for speaker invitation, interview, contact, and reception

TECHNICAL SKILLS

Programming Language: Python, C, C++, JavaScript, HTML, CSS**Other Tools:** AWS, Git, Gitlab, Laravel, Cocos Creator, Jenkins, Docker, scrapy, Amazon Web Services, Selenium**ADDITIONAL INFORMATION**

Language: Native in Mandarin, fluent in English (IELTS:7, TOEIC:895), elementary in German**Areas of Interests:** Natural Language Processing, Fake News Detection, Data Science, Deep Learning