

Yi-Li Hsu CV

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EDUCATION

National Tsing Hua University (NTHU) <i>Ph.D. in Computer Science (CS)</i>	Hsinchu, Taiwan 09/2022 - Present
National Tsing Hua University (NTHU) <i>M.S. in Computer Science (CS)</i> <i>GPA: 4.3/4.3</i> <ul style="list-style-type: none">Received Direct Admission to Ph.D. Program in the second semester	Hsinchu, Taiwan 09/2021 - 08/2022
Tübingen University <i>Exchange Program of Computer Science (CS)</i>	Tübingen, Germany 10/2019 - 02/2020
National Tsing Hua University (NTHU) <i>B.S in Computer Science (CS)</i> <i>Major GPA: 3.85/4.3, Advanced GPA: 3.99/4.3</i>	Hsinchu, Taiwan 09/2018 - 06/2021

GRANDS & AWARDS

President Scholarship (\$800/month for 4 years), National Tsing Hua University, Taiwan	2022
Travel Grant (\$4,000) for attending KDD conference, Academia Sinica, Taiwan	2022
Appier AI and Information Technology Research Award (\$1,600), Appier, Taiwan	2022
TAAI Scholarship (\$1,000), Taiwanese Association for Artificial Intelligence, Taiwan	2022
Outbound Exchange student Scholarship (\$2,500), National Tsing Hua University, Taiwan	2019

TEACHING EXPERIENCE

Taiwan AI Academy <i>Teaching Assistant of Natural Language Processing Program</i> <ul style="list-style-type: none">Introduced dependency parsing, constituency parsing and HMM model with Viterbi algorithmLed the hands-on coding with python, which includes Parsing, Part-of-Speech tagging with HMM model	Taipei, Taiwan 06/2022 - 08/2022
Department of Computer Science, National Yang Ming Chiao Tung University (NYCU) <i>Teaching Assistant of Natural Language Processing Course</i> <ul style="list-style-type: none">Preparing and teaching for the programming homework with python and final program challengeTracking attendance, recording online courses, grading assignments, and calculating grades	Hsinchu, Taiwan 02/2022 - 06/2022

RESEARCH EXPERIENCE

Natural Language Processing and Sentiment Analysis Lab, Academia Sinica <i>Part-time Research Assistant of Dr. Lun-Wei Ku</i> <ul style="list-style-type: none">Fake News Explanation Generation<ul style="list-style-type: none">Created a novel method for counterfactual explanations of fake news and obtained 70% of annotated accuracyAchieved better human preference compared to current existing summarization-based explanations	Taipei, Taiwan 07/2021 - Present
Computer Systems Lab, Academia Sinica <i>Undergraduate Research Assistant of Dr. Yuan-Hao Chang</i> <ul style="list-style-type: none">Optimization of non-volatile memory<ul style="list-style-type: none">Investigated on optimization of non-volatile memory storage architecture with hashingReduced the insertion failure of Cuckoo by 60% and increased the success rate by 25%	Hsinchu, Taiwan 07/2018 - 06/2021

PUBLICATIONS

1. 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 (SIDKDD '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

Taipei, Taiwan

Data Management Platform Intern

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

REFERENCE

Dr. Lun-Wei Ku (lwku@iis.sinica.edu.tw)

Institute of Information Science, Academia Sinica

Relationship: Ph.D.'s advisor, director of the Natural Language Processing and Sentiment Analysis Lab

Dr. Aiping Xiong (axx29@psu.edu)

College of Information Science and Technology, Penn State University

Relationship: Ph.D.'s co-advisor

Dr. Yuan-Hao Chang (johnson@iis.sinica.edu.tw)

Institute of Information Science, Academia Sinica

Relationship: Bachelors' co-advisor, Deputy Director of Institute of Information Science, Academia Sinica

Dr. Wei-Kuan Shih (wshih@cs.nthu.edu.tw)

Department of Computer Science, National Tsin Hua University

Relationship: Bachelors' advisor, director of the Real-Time Lab