

# Yi-Li Hsu CV

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## EDUCATION

<b>National Tsing Hua University (NTHU)</b> <i>Ph.D. in Computer Science (CS)</i>	<b>Hsinchu, Taiwan</b> 09/2022 - Present
<b>National Tsing Hua University (NTHU)</b> <i>M.S. in Computer Science (CS)</i> GPA: 4.3/4.3 ◇ Received Direct Admission to Ph.D. Program in the second semester	<b>Hsinchu, Taiwan</b> 09/2021 - 08/2022
<b>National Tsing Hua University (NTHU)</b> <i>B.S in Computer Science (CS)</i> Major GPA: 3.85/4.3, Advanced GPA: 3.99/4.3	<b>Hsinchu, Taiwan</b> 09/2018 - 06/2021
<b>Tübingen University</b> <i>Exchange Program of Computer Science (CS)</i>	<b>Tübingen, Germany</b> 10/2019 - 02/2020

## GRANDS & AWARDS

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

## TEACHING EXPERIENCE

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

## RESEARCH EXPERIENCE

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

## PUBLICATIONS

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

## WORK EXPERIENCE

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### 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

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**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. 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 Tsing Hua University*

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