

Wen-Hsing Huang

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Education

National Central University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

- Cumulative GPA: 3.98/4.0
- Cumulative Department Rank: 1st / 99

Taoyuan, Taiwan

Sept. 2018 - expected June 2022

Work & Research Experiences

BingAds AdInsight Team, Microsoft

PROGRAM MANAGER INTERN

- Created a report that automatically refreshes and monitors product demands and OKR, which eliminated the need for manual work from feature crews; the report views exceed 99.3% of the reports in the organization.
- Established data pipeline by scripting SQL-like language in internal NoSQL database and Azure Data Explorer.
- Visualized demand data by designing layout and using Power BI (a data visualization tool) to demonstrate the trend and insights.
- Conducted data analysis on production data alerts to identify problems and summarize reports for developers.
- Analyzed data to assess the reliability of the evaluation basis for the new recommendation feature.
- Designed and revised internal recommendation payload templates to adapt new features that enhance the ability of sales team promotion to the main customer.

Taipei, Taiwan

July 2021 - Present

Institute of Information Science, Academia Sinica

PART-TIME ASSISTANT

- Implemented simulation program of Multicast Rerouting and Update Scheduling Algorithm for experimenting in a new scenario.
- Conducted experiments using a simulation program that were the necessary baselines for the paper "Multicast Traffic Engineering with Segment Trees in Software Defined Networks".

Taipei, Taiwan

July 2020 - Aug. 2020

Wireless Ad-Hoc and Sensor Networks Lab, National Central University

UNDERGRADUATE RESEARCH ASSISTANT

Pedestrian crossing prediction project in self-driving system with Industrial Technology Research Institute(ITRI)

- Decreased 45% identity switches by integrating higher performance detection-based tracking solution into our system.

Trajectory of surrounding vehicle prediction project in self-driving system of industry-academia in collaboration with ITRI

- Revised data pipeline of an open-source trajectory prediction project to retrain its model to adopt new datasets.
- Surveyed and presented vehicle trajectory prediction papers to ITRI to determine business solution.
- Increased efficiency by implementing tools for routine work, including trajectory generation and loss visualization.

Recurrent Learning on PM_{2.5} Prediction Based on Clustered Airbox Dataset

- Designed supplementary experiments for the rebuttal.
- Validated reliability of data averaging method through statistical experiments.
- Explained selection of model hyperparameters and model architecture through supplementary experiment results.
- Proved reliability of interpolation method by showing strong linear correlation of the data.
- Demonstrated quality of data source supported by literature surveying.
- Wrote a 10-page rebuttal and revised the manuscript by examining literature and adding supplementary experiments' result.

Taoyuan, Taiwan

Mar. 2020 - June 2021

Publications

- Chia-Yu Lo, **Wen-Hsing Huang**, Ming-Feng Ho, Min-Te Sun, Ling-Jyh Chen, Kazuya Sakai, Wei-Shinn Ku, "Recurrent Learning on PM_{2.5} Prediction Based on Clustered Airbox Dataset", in **IEEE Transactions on Knowledge and Data Engineering**.

Honors & Awards

SCHOLARSHIPS

2021 **The NCU SHUN-I CHU ZyXEL Scholarship**, about 3,600USD, top 10 outstanding junior undergraduate in university

Taoyuan, Taiwan

2019 **The Scholarship for Excellence**, about 700USD, 2 quota in Dept. in semester

Taoyuan, Taiwan

2019-2021 **Honor for Academic Excellence * 5**, about 200USD, top 5% of class in semester

Taoyuan, Taiwan

PROGRAMMING COMPETITIONS

2019-2021 **Bronze Award * 3**, International Collegiate Programming Contest, Regional Contest

Taipei, Taiwan

2018 **Honorable Mention**, International Collegiate Programming Contest, Regional Contest

Taipei, Taiwan

2018-2020 **Excellent Work * 3**, National Collegiate Programming Contest

Taipei, Taiwan

MISCELLANEOUS HACKATHON & COMPETITIONS

2021 **Best Creativity Award**, Competition of Special Project in CSIE, NCU

Taoyuan, Taiwan

2018 **Innovation and Application Award**, NASA Space Apps Challenge Taipei (Hackathon)

Taipei, Taiwan

Extracurricular Activities

Developer Student Clubs at National Central University, Google Developers

CORE TEAM MEMBER

- Collaborated with team members to execute 5 events and workshops about Google technology.
- Taught 20+ students Flutter basic in the workshop.

Taoyuan, Taiwan

Aug. 2020 - Jun. 2021

Deloitte club

CLUB MEMBER

- Served as a campus ambassador at National Central University.
- Fostered knowledge about Consulting industry.
- Reached 400+ clicks by promoting events, recruitment information via social networks and websites.
- Increased recognition of Deloitte employer brand and Consulting industry through promotion and information sharing.

Taipei, Taiwan

May 2020 - Apr. 2021