

# Wen-Hsing Huang

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## EDUCATION

### University of Illinois Urbana-Champaign

08/2022 - 12/2023 (Expected)

*Master of Computer Science*

Champaign, IL

- **Coursework:** Distributed Systems, Topics in Software Engineering, User Interface Design

### National Central University

09/2018 - 06/2022

*Bachelor of Science in Computer Science and Information Engineering*

Taoyuan, Taiwan

- **GPA:** 3.98 / 4.0, **Rank in Dept.:** 1<sup>st</sup> / 104
- **Coursework:** Data Structure, Algorithms, Operating System, Computer Organization, Computer Network
- **Awards:** Phi Tau Phi honorary member, 3x ICPC regional contest Bronze Award, SHUN-I CHU ZyXEL Scholarship (ca. \$3600), Scholarship for Excellence (ca. \$700), 6x Honor for Academic Excellence (ca. \$200)

## WORK EXPERIENCE

### Microsoft

07/2021 - 01/2022

*Program Manager Intern | BingAds AdInsight Team*

Taipei, Taiwan

- Empowered feature crews monitoring product demand and OKRs by building an auto-update report.
- Established data pipeline through scripting in internal NoSQL database and Azure Data Explorer.
- Analyzed big data and designed insightful data visuals by Power BI.
- Conducted data analysis on production data alerts to identify problems and summarized reports for developers.

### Institute of Information Science, Academia Sinica

07/2020 - 08/2020

*Research Assistant*

Taipei, Taiwan

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

### National Central University

03/2020 - 06/2021

*Undergraduate Research Assistant | Wireless Ad-Hoc and Sensor Networks Lab*

Taoyuan, Taiwan

- Cooperated with the Industrial Technology Research Institute (ITRI) to develop a self-driving system.
- Decreased 45% of identity switches by integrating higher performance detection-based tracking solution into system.
- Revised data pipeline of an open-source trajectory prediction project to retrain its model to adopt new datasets.

## PUBLICATION

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

## SKILLS

**Programming Languages:** C/C++, Python, Java, Matlab, SQL, HTML/CSS, Assembly,  $\text{\LaTeX}$

**Tools:** Git Version Control, Power BI,

**Languages:** English (fluent), Mandarin (Native)