

# Yu-Hsiang Wang

✉ yw121@illinois.edu | 🏠 garlicwang.github.io | 📧 GarlicWang | 🌐 shanewang0817

## Education

### University of Illinois Urbana-Champaign

PH.D. IN ELECTRICAL & COMPUTER ENGINEERING

Champaign, IL

Aug. 2024 - Present

- **Advisors** : Olgica Milenkovic
- **Overall GPA** : 4.00/4.00

### National Taiwan University

B.S. IN ELECTRICAL ENGINEERING

Taipei, Taiwan

Sep. 2019 - Jan. 2024

- **Overall GPA** : 4.09/4.30
- **Honors** : Dean's List Award 2020 Fall (Top 5% of students)

## Research Experience

### Interdisciplinary Data Processing Lab

GRADUATE RESEARCH ASSISTANT, ADVISOR: PROF. OLGICA MILENKOVIC

UIUC

Aug. 2024 - Present

- Proposed a Wavelet-based diffusion model for time series data generation. (under review)
- Proposed a schedule-driven graph diffusion model for efficient molecule generation. (NeurIPS 2025)

### Computational Machine Learning Lab

RESEARCH ASSISTANT, ADVISOR: PROF. CHO-JUI HSIEH

UCLA

Jun. 2023 - Sep. 2023

- Proposed a concept-level uncertainty framework for Large Language Models. (NeurIPS 2024 SFLLM workshop)

### Interdisciplinary Data Science and Signal Processing Lab

RESEARCH ASSISTANT, ADVISOR: PROF. CHE LIN

National Taiwan University

Sep. 2022 - Dec. 2023

- Proposed a **heterogeneous graph neural network (HGNN)** framework integrating a type-aware edge predictor and a feature classifier to capture the heterogeneity of edges and optimize the embedding in the shared feature space. (under review)

## Work Experience

### CMoney

AI ENGINEER INTERN, ADVISOR: DR. JASON CHOU

Taipei, Taiwan

Jun. 2022 - Jun. 2023

- Proposed an **explainable recommendation system** utilizing **knowledge graphs** and **graph attention networks** to deliver personalized push notifications for a stock forum app, achieving an 8.53% click-through rate in A/B testing and demonstrating a 3.3× performance improvement.

## Publication

- [1] **Yu-Hsiang Wang** and Olgica Milenkovic. "WaveletDiff: Multilevel Wavelet Diffusion For Time Series Generation". *In Submission*.
- [2] Peizhi Niu, **Yu-Hsiang Wang**, Vishal Rana, Chetan Rupakheti, Abhishek Pandey, and Olgica Milenkovic. "**DMol: A Schedule-Driven Diffusion Model for Highly Efficient and Versatile Molecule Generation**". *NeurIPS 2025*.
- [3] **Yu-Hsiang Wang**, Andrew Bai, Che-Ping Tsai, and Cho-Jui Hsieh. "**CLUE: Concept-Level Uncertainty Estimation for Large Language Models**". *NeurIPS 2024 SFLLM Workshop*.

## Extracurricular Activities

### Stanford ASES (Affiliated Stanford Entrepreneurial Students) Summit

DELEGATE OF 2023

Stanford University

Apr. 2023

- Selected to be **the only Taiwanese representative** among the top 24 student entrepreneurs worldwide to participate in the ASES Summit held at Stanford University.
- Presented a novel business model related to the Asia daigou market to the VC panel and achieved a **top-three rank in the pitch competition**.

### Creativity and Entrepreneurship Program

STUDENTS

National Taiwan University

Sep. 2021 - June. 2022

- Completed 15 credits of coursework on venture capital, business management, and entrepreneurship.
- Represented my team in the pitch competition and achieved a **top-tier team ranking** among 10 competing teams.