

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

- **Advisor :** 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

Research Experience

University of Illinois Urbana-Champaign

GRADUATE RESEARCH ASSISTANT, ADVISOR: PROF. OLGICA MILENKOVIC

Champaign, IL

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)

University of California, Los Angeles

RESEARCH ASSISTANT, ADVISOR: PROF. CHO-JUI HSIEH

Los Angeles, CA

Jun. 2023 - Sep. 2023

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

National Taiwan University

RESEARCH ASSISTANT, ADVISOR: PROF. CHE LIN

Taipei, Taiwan

Sep. 2022 - Dec. 2023

- Proposed a heterogeneous graph neural network (HGNN) framework. (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*.
- [4] Ming-Yi Hong, Miao-Chen Chiang, Youchen Teng, **Yu-Hsiang Wang**, Chih-Yu Wang, and Che Lin. “**THEGAU: Type-Aware Heterogeneous Graph Autoencoder and Augmentation**”. *In Submission*.

Honors & Awards

Research Grant for College Students, National Science and Technology Council (Taiwan)

July 2023 - Feb 2024

Dean's List Award, Electrical Engineering Dept. at NTU

Fall 2020

Teaching

ECE313: Probability with Engineering Applications

GRADUATE TEACHING ASSISTANT

UIUC

Fall 2025