Qihui Yang

qiy009@ucsd.edu | isaacyqh.github.io | linkedin.com/in/isaacyqh/

Education

University of California, San Diego, MS in Electrical & Computer Engineering · Sep 2024 – Jan 2026
- **Coursework:** Natural Language Processing, Web Mining & Recommender System, Python Programming

Sun Yat-Sen University, BS in Statistics, GPA: 3.8/4.0 · Sep 2020 – June 2024
- **Coursework:** Data Structure & Algorithm, Statistical Computation, Stochastic Process, Statistical Learning

Internships

AI Algorithm Intern, Tencent Music entertainment Group – Guangzhou, China · June 2024 – Sep 2024
- Solved music audio quality classification problem using CNN with a threshold;
- Implemented Large-scale Contrastive Language-Audio Pretraining (LAION-CLAP) to help develop a universal music tagging system;
- Pre-processed large-scale music datasets.

Research Assistant, The Chinese University of Hong Kong – Hong Kong SAR · Dec 2023 – May 2024
- Advisor: Qiuqiang Kong
- Worked on "MIDI-to-Performance", a Natural and Vivid Instrument Timbre Generation Model

Research Assistant, Dartmouth College – Remote · Sep 2023 – July 2024
- Advisor: Yujun Yan
- Implement model and help with paper rebuttal section;
- Derive theoretical guarantees for Graph Neural Network models.

Publications

One-shot Text-aligned Virtual Instrument Generation Utilizing Diffusion Transformer · Oct 2024
Qihui Yang, Jiahe Lei, Qiuqiang Kong
NeurIPS 2024 Workshop on AI-Driven Speech, Music, and Sound Generation

Exploring Consistency in Graph Representations: from Graph Kernels to Graph Neural Networks · Sep 2024
Xuyuan Liu, *Qihui Yang*, Yinghao Cai, Yujun Yan
NeurIPS 2024 https://arxiv.org/abs/2410.23748

Enhancing Size Generalization in Graph Neural Networks through Disentangled Representation Learning · Jul 2024
Zheng Huang, *Qihui Yang*, Dawei Zhou, Yujun Yan
ICML 2024 https://arxiv.org/abs/2406.04601

Invited Talk

A Unified Perspective From Statistical Inference to Generative Modeling · Jan 2025
Synced (jiqizhixin)

Competitions & Awards

Honorable Mention, **2023 Interdisciplinary Contest in Modeling (ICM)** · May 2023
Special Scholarship Award for Academic Innovation, **Sun Yat-Sen University** · Dec 2022

Technologies

Linux, C++, Python (pytorch), R, SQL

Extracurricular Activities

Original Music Club - Lead Singer & Arranger

- Songwriting, Music production and Performing;
- Partook in the production of the theme song of a Movie: GG bond: Interstellar Action.