

Qihui Yang

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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
- 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>

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.