

Qiucheng Wu

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Education

University of California, Santa Barbara, CA Ph.D. student in Computer Science Advisor: Prof. Shiyu Chang	2021 - Present
University of Michigan, MI M.S. in Computer Science and Engineering	2019 - 2021
University of Michigan, MI B.S. in Computer Science and Engineering	2017 - 2019
Shanghai Jiao Tong University, Shanghai, China B.S. in Electrical and Computer Engineering	2015 - 2019

Work Experience

Adobe Research Intern Advisor: Dr. Handong Zhao	2023.06 - 2023.09
Picsart Research Intern Advisor: Dr. Humphrey Shi	2022.06 - 2022.09
Fitly Machine learning Engineer Intern	2019.11 - 2020.04

Selected Publications

‡ indicates authors with equal contributions.

1. **Qiucheng Wu**[‡], Yujian Liu[‡], Handong Zhao, Trung Bui, Zhe Lin, Yang Zhang, and Shiyu Chang. “Harnessing the spatial-temporal attention of diffusion models for high-fidelity text-to-image synthesis”. **ICCV, 2023.**
2. **Qiucheng Wu**, Yujian Liu, Handong Zhao, Ajinkya Kale, Trung Bui, Tong Yu, Zhe Lin, Yang Zhang, and Shiyu Chang. “Uncovering the disentanglement capability in text-to-image diffusion models”. **CVPR, 2023.**
3. **Qiucheng Wu**[‡], Yifan Jiang[‡], Junru Wu[‡], Victor Kulikov, Vidit Goel, Nikita Orlov, Humphrey Shi, Zhangyang Wang, and Shiyu Chang. “Broad Spectrum Image Deblurring via An Adaptive Super-Network”. **TIP, 2023.**
4. Yimeng Zhang[‡], Akshay Karkal Kamath[‡], **Qiucheng Wu**[‡], Zhiwen Fan[‡], Wuyang Chen, Zhangyang Wang, Shiyu Chang, Sijia Liu, and Cong Hao. “Data-Model-Circuit Tri-Design for Ultra-Light Video Intelligence on Edge Devices”. **ASP-DAC, 2023.**
5. Wantong Li, **Qiucheng Wu**, Janak Sharda, Shiyu Chang, and Shimeng Yu. “Temporal Frame Filtering with Near-Pixel Compute for Autonomous Driving”. **AICAS, 2022.**

Preprints

‡ indicates authors with equal contributions.

1. **Qiucheng Wu**[‡], Yifan Jiang[‡], Junru Wu[‡], Kai Wang, Gong Zhang, Humphrey Shi, Zhangyang Wang, and Shiyu Chang. “Grasping the Arrow of Time from the Singularity: Decoding Micromotion in Low-dimensional Latent Spaces from StyleGAN”. **Arxiv**.

Teaching Assistant

- **CS165B**: Machine Learning (Fall 2021, UCSB).
- **EECS492**: Intro to Artificial Intelligence (Fall 2020 and Winter 2021, UMich).
- **Vv156**: Applied Honors Calculus (Fall 2016, UM-SJTU Joint Institute, SJTU).

Major Awards and Honors

2019	Undergraduate Capstone Team Gold Prize (SJTU)
2018	MIDAS Data Science Symposium, Most Interesting Methodological Advances (UMich)
2016	Academic Excellence Scholarship (SJTU)