Qian Wang

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QianWangX

Education

PhD **King Abdullah University of Science and Technology**, Computer Science — Sep 2023 – present
- GPA: 3.80/4.0
- **Research Areas:** Image / Video diffusion models, Image editing, GenAI

MSc **King Abdullah University of Science and Technology**, Computer Science — Sep 2021 – Dec 2023
- GPA: 3.75/4.0
- **Specialization:** Computer vision, Generative modeling.

BSc **Wuhan University**, Remote Sensing — Sep 2017 – Jun 2021
- GPA: 3.84/4.0
- **Specialization:** Remote sensing, GIS, Photogrammetry.

Experience

Disney Research Studio, Research Intern — Zurich, Switzerland, Aug 2025 – Nov 2025
- Repurposed general diffusion models for High Dynamic Range (HDR) image generation, overcoming dynamic range limitations in standard synthesis.
- Improved generation quality over the baselines in terms of higher fidelity and more visual details in the overexposed / underexposed regions.

Max Planck Institute of Informatics, Visiting Student — Saarbruecken, Germany, Jul 2023 – Sep 2023
- Developed a training-free framework leveraging pre-trained diffusion models for zero-shot video semantic segmentation.
- Proposed "VidSeg", a method with competing performance against the supervised frameworks; work accepted as a first-author paper at CVPR 2025.

Intelligent Star-Earth Link Technology Co.LTD, Applied Engineer Intern — Wuhan, China, Oct 2020 – Dec 2020
- Engineered high-level Python APIs to streamline deep learning training pipelines.

The Hong Kong Polytechnic University, Visiting Student — Hong Kong SAR, China, Jun 2019 – Jul 2019
- Designed geoinformation mobile apps for localization and navigation.

Publications

EditCLIP: Representation Learning for Image Editing. — **ICCV 2025**
Qian Wang, Aleksandar Cvejic, Abdelrahman Eldesokey, Peter Wonka
https://arxiv.org/abs/2503.20318

VidSeg: Training-free Video Semantic Segmentation based on Diffusion Models. — **CVPR 2025**
Qian Wang, Mohit Mendiratta, Fangneng Zhan, Adam Kortylewski, Christian Theobalt, Peter Wonka
openaccess.thecvf.com, pp. 22985-22994

Stereocrafter-Zero: Zero-Shot Stereo Video Generation With Noisy Restart. — Arxiv 2024
Jian Shi, ***Qian Wang***, Zhenyu Li, Ramzi Idoughi, Peter Wonka
https://arxiv.org/abs/2411.14295

MDP: A Generalized Framework for Text-Guided Image Editing by Manipulating the Diffusion Path. — **TMLR 2024**

Qian Wang, Biao Zhang, Michael Birsak,Peter Wonka
https://openreview.net/forum?id=nuIjjebNuu

InstructEdit: Improving Automatic Masks for Diffusion-based Image Editing With User Instructions. Arxiv 2023

Qian Wang, Biao Zhang, Michael Birsak,Peter Wonka
https://arxiv.org/abs/2305.18047

BlobGAN-3D: A Spatially-Disentangled 3D-Aware Generative Model for Indoor Scenes. Arxiv 2023

Qian Wang, Yiqun Wang, Peter Wonka
https://arxiv.org/abs/2303.14706

Skills

Programming Languages: Python, C, C++, Matlab, R

Misc: Pytorch, Computer Vision, Machine Learning, OpenCV, Linux, Git, Kubernetes

Honors & Awards

KAUST CEMSE Dean's List (top 20% of the division)	KAUST, May 2025
Graduation with Distinction	Wuhan University, Jun 2021
Second Class Scholarship (top 10% of the university)	Wuhan University, Oct 2020
Excellence Student (top 10% of the university)	Wuhan University, Oct 2020
First Class Scholarship (top 5% of the university)	Wuhan University, Oct 2019
Merit Student (top 5% of the university)	Wuhan University, Oct 2019
Zhizhuo Excellence Research Scholarship	Wuhan University, May 2019

Teaching

KAUST, Teaching Assistant Sep 2024 - Dec 2024

- CS323 Deep Learning for Visual Computing, taught by Prof.Peter Wonka

KAUST, Teaching Assistant Sep 2023 - Dec 2023

- CS323 Deep Learning for Visual Computing, taught by Prof.Peter Wonka