

Qiyu Dai

No.5 Yiheyuan Road, Beijing, China

☎ Contact: (+86)13534865062

✉ qiyudai@pku.edu.cn

📄 <https://daiqy.github.io/>

Education

- 09/2019 – **Peking University**, Beijing, China
06/2022 **M.Eng. in Computer Technology**, School of Software and Microelectronics
Advisor: Prof. He Wang, Prof. Qi Jing
- 09/2015 – **Wuhan University**, Wuhan, China
06/2019 **Bachelor in Energy Chemical Engineering**, School of Power and Mechanical Engineering
Double Bachelor in Computer Science, School of Computer Science
Advisor: Prof. Qin Zou

Research Interests

Neural Scene Representations, Neural Rendering, 3D Vision, Computer Graphics

Publications

- ICRA 2023 **GraspNeRF: Multiview-based 6-DoF Grasp Detection for Transparent and Specular Objects Using Generalizable NeRF**
Qiyu Dai*, Yan Zhu*, Yiran Geng, Ciyu Ruan, Jiazhao Zhang, He Wang
IEEE International Conference on Robotics and Automation, 2023
- ECCV 2022 **Domain Randomization-Enhanced Depth Simulation and Restoration for Perceiving and Grasping Specular and Transparent Objects**
Qiyu Dai*, Jiyao Zhang*, Qiwei Li, Tianhao Wu, Hao Dong, Ziyuan Liu, Ping Tan, He Wang
European Conference on Computer Vision, 2022
- ACM MM 2021 **Edit Like A Designer: Modeling Design Workflows for Unaligned Fashion Editing**
Qiyu Dai, Shuai Yang, Wenjing Wang, Wei Xiang, Jiaying Liu
ACM International Conference on Multimedia, 2021
- IEEE TVT 2019 **Robust Lane Detection From Continuous Driving Scenes Using Deep Neural Networks**
Qin Zou, Hanwen Jiang, **Qiyu Dai**, Yuanhao Yue, Long Chen, Qian Wang
IEEE Transactions on Vehicular Technology, 2019

* denotes equal contribution

Research Experience

- 11/2022 – **Beijing Academy of Artificial Intelligence**
Present Research Intern, Embodied AI Center
Advisor: Prof. He Wang
Research: NeRF for Robotics
- 03/2021 – **Center on Frontiers of Computing Studies, Peking University**
Present Research Assistant, Embodied Perception and Interaction (EPIC) Lab
Advisor: Prof. He Wang
Research: Sensor Simulation, Depth Restoration, Grasping, NeRF
- 08/2020 – **Wangxuan Institute of Computer Technology, Peking University**
03/2021 Research Assistant, Spatial and Temporal Restoration, Understanding and Compression Team (STRUCT)
Advisor: Prof. Jiaying Liu
Research: Image Generation and Editing
- 10/2017 – **School of Computer Science, Wuhan University**
06/2019 Undergraduate Researcher, Machine Vision and Robotics Lab
Advisor: Prof. Qin Zou
Research: Road Lane Detection

Services

- Reviewers CVPR 2022, ECCV 2022, CVPR 2023, ICCV 2023

Invited Talks

- 08/2022 **Domain Randomization-Enhanced Depth Simulation and Restoration for Perceiving and Grasping Specular and Transparent Objects**
ECCV 2022 China Pre-Conference, China Society of Image and Graphics

Awards and Honors

- 2022 **Outstanding Master's Thesis**, Peking University
2021 **Social Work Award**, Peking University
2020 **Merit Student Award**, Peking University
2019 **Excellent Graduate Award**, Wuhan University
2018 **The Beijing CM Scholarship**, Wuhan University
2017 **The Goaland Scholarship**, Wuhan University
2017 **Merit Student Award**, Wuhan University
2016 **The Cnhili Scholarship**, Wuhan University
2016 **The Relations Instruments Scholarship**, Wuhan University
2016, 2018 **Excellent Student Award**, Wuhan University
2016 – 2018 **Excellent Student Scholarship**, Wuhan University