Qiaole Dong

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EDUCATION

Fudan University **Sep. 2022 – June 2026 (Estimate)**
Fudan Elite PhD Program *Shanghai, China*

- Advisor: Prof. Yanwei Fu
- Doctor of Philosophy (Ph.D.) (Research: Computer Vision)
- GPA: 3.8/4.0

Fudan University **Sep. 2018 – June 2022**
Bachelor of Data Science *Shanghai, China*

- GPA: 3.79/4.0
- National Scholarship, Ministry of Education of China (2021)

AREAS OF INTERESTS

Currently, I am working on post-training of (multimodal) large language models. Previously, I am interested in the perception and anticipation of motion, especially optical flow estimation and future prediction. Besides, I am also interested in visual generation, e.g., image inpainting/editing.

PUBLICATIONS

* indicates equal contributions.

Post-training of Large Models:

- Zhihao Zhang*, **Qiaole Dong***, Qi Zhang, et al. "Why Reinforcement Fine-Tuning Enables MLLMs Preserve Prior Knowledge Better: A Data Perspective". Preprint.
- Mingqi Wu*, Zhihao Zhang*, **Qiaole Dong***, Qi Zhang, et al. "Reasoning or Memorization? Unreliable Results of Reinforcement Learning Due to Data Contamination". Preprint.

Visual Perception:

- **Qiaole Dong**, Yanwei Fu. "Online Dense Point Tracking with Streaming Memory". **ICCV** 2025.
- **Qiaole Dong**, Yanwei Fu. "MemFlow: Optical Flow Estimation and Prediction with Memory". **CVPR** 2024.
- **Qiaole Dong***, Chenjie Cao*, Yanwei Fu. "Rethinking Optical Flow from Geometric Matching Consistent Perspective". **CVPR** 2023.
- **Qiaole Dong**, Bo Zhao, Yanwei Fu. "Open-DDVM: A Reproduction and Extension of Diffusion Model for Optical Flow Estimation". Preprint.

Visual Generation:

- Chenjie Cao*, **Qiaole Dong***, and Yanwei Fu. "ZITS++: Image Inpainting by Improving the Incremental Transformer on Structural Priors". **IEEE TPAMI** 2023.
- Chenjie Cao*, **Qiaole Dong***, Yanwei Fu. "Learning Prior Feature and Attention Enhanced Image Inpainting". **ECCV** 2022.
- **Qiaole Dong***, Chenjie Cao*, Yanwei Fu. "Incremental Transformer Structure Enhanced Image Inpainting with Masking Positional Encoding". **CVPR** 2022.
- Chenjie Cao, Yunuo Cai, **Qiaole Dong**, Yikai Wang, Yanwei Fu. "LeftRefill: Filling Right Canvas based on Left Reference through Generalized Text-to-Image Diffusion Model". **CVPR** 2024.
- Yikai Wang, Chenjie Cao, Ke Fan, **Qiaole Dong**, Yifan Li, Xiangyang Xue, Yanwei Fu. "Repositioning the Subject within Image". **TMLR** 2024. (J2C Certification, Top 10% of accepted papers.)
- Ming Xie, Junqiu Yu, **Qiaole Dong**, Xiangyang Xue, Yanwei Fu. "VidSplice: Video Inpainting with Contextual Frame Intervals for Temporal Coherence". Preprint.

Others:

- Xiang Li*, Xuelin Qian*, Litian Liang*, Lingjie Kong, **Qiaole Dong**, Jiejun Chen, Dingxia Liu, Xiuzhong Yao, Yanwei Fu. "Causally-Aware Intraoperative Imputation for Overall Survival Time Prediction". **CVPR** 2023.

EXPERIENCES

Tencent **June 2025 – Present**

Research Intern ***(Tencent Project Up)*** *Shanghai, China*

Noah's Ark Lab, Huawei **July 2024 – June 2025**

Research Intern *Shanghai, China*

- Advisor: Dr. Yi Zhu
- Multimodal Large Language Models for UI Grounding

International Computer Vision Summer School 2024 **July 7th – 13th 2024**

Computer Vision in the Age of Large Language Models *Sicily, Italy*

- The School was especially aimed to provide an objective, clear and in-depth summary of the state-of-the-art research in the area of Computer Vision, Machine Learning and Artificial Intelligence. The lectures have covered both theoretical and practical aspects of real problems as well as examples of their successful commercialization. The courses (30 hours) have been delivered by the world renowned experts in the field, from both academia and industry

Tutorial of ACCV 2022 **Dec. 5th 2022**

Presenter and Organizer *Macau, China*

- Yanwei Fu, Shenghua Gao, Chenjie Cao, **Qiaole Dong**. "The Priors Guided Image Editing and Synthesis".

HONORS & AWARDS

- National Scholarship, Ministry of Education of China (2021, Undergraduate)
- National 1st Prize for Contemporary Undergraduate Mathematical Contest in Modeling (2020), **Outstanding Paper Awards (Top 4 of Undergraduate Track)**: "Tian Liu, **Qiaole Dong**, Di Wu. 'A Model of Furnace Temperature Curve Based on One-dimensional Thermal Conduction Equations'. Chinese Journal of Engineering Mathematics, 2020, 37 (Supplement One): 69-78."
- Outstanding graduate of Fudan University (2022)
- 1st Prize of the 11th and 12th National Mathematics Competition for College Students (Non-Mathematics) (2019/20)
- The Second/Third Prize of Outstanding Student Scholarship of Fudan University (2020/22)
- Huawei "Intelligent Base" Scholarship (2022)
- HHCTEA Freshman Scholarship at Tengfei College, Fudan University (Top 10%, 2018)

OTHERS

- **Reviewer & PC Member:** CVPR, ICCV, ECCV, AAAI, ACCV, IEEE TPAMI, IJCV, IEEE TCSVT, IEEE TIP and IEEE TMM.
- **Attendance:** CVPR 2023@Vancouver, CVPR 2024@Seattle, ICVSS 2024@Sicily.
- Method for Image Inpainting based on Incremental Edge and Wireframes. China Patent: ZL 2021 1 1598280.7 , Aug. 29, 2025.
- Method for Feature Splatting based Online Dense Point Tracking. China Patent: CN120198460A, Patent pending.