Zhao (Dylan) Wang

(+852) 6151-2818
zwang@link.cuhk.edu.hk

GitHub: github.com/kyfafyd
Homepage: kyfafyd.wang

EDUCATION

The Chinese University of Hong Kong (CUHK) *Aug. 2021 – Dec.2025 (expected)*
Ph.D. Student, Department of Computer Science and Engineering *Shatin, Hong Kong*

- **Research Interests:** video understanding/generation, model pre-training/selection, and healthcare
- **Advisor:** Prof. Qi Dou

Zhejiang University (ZJU) *Sep. 2017 – Jun. 2021*
B.Eng., College of Information Science and Electronic Engineering *Hangzhou, China*

- **Advisor:** Prof. Honggang Zhang (**IEEE Fellow, AAIA Fellow**)

EXPERIENCE

Shanghai AI Laboratory *Nov. 2023 – Nov. 2024*
Research Collaboration, AI for Science Group *Shanghai, China (Remote)*

- **Topic:** Human Centric Motion Generation
- **Advisor:** Prof. Wanli Ouyang, Prof. Dan Xu, Dr. Shixiang Tang, Mr. Di Huang

University of California, San Diego (UCSD) *Feb. 2020 – May. 2020*
Visiting Student, Department of Electrical and Computer Engineering *La Jolla, CA*

- **Topic:** Medical Imaging Generation
- **Advisor:** Prof. Pengtao Xie

PUBLICATIONS

Google Scholar Profile (**631** citations by Jun. 2025)

Note: * indicates equal contributions.

[1] **Zhao Wang**, Hao Wen, Lingting Zhu, Chenming Shang, Yujiu Yang, Qi Dou. "AnyCharV: Bootstrap Controllable Character Video Generation with Fine-to-Coarse Guidance". *under review at Conference on Neural Information Processing Systems (**NeurIPS**)*, 2025. **[paper]**

[2] **Zhao Wang***, Jin-Yi Xiang*, Zheyao Gao, Mo Yang, Chengyan Wang, Lian-Ming Wu, Qi Dou. "Large Language Model-Enhanced Multimodal Deep Learning for Predicting Major Adverse Cardiovascular Events after Myocardial Infarction". *under review at Nature Communications (**NC**)*, 2025.

[3] **Zhao Wang**, Chang Liu, Lingting Zhu, Shaoting Zhang, Qi Dou. "Improving Foundation Model for Endoscopy Video Analysis via Representation Learning on Long Sequences". *IEEE Journal of Biomedical and Health Informatics* (**JBHI, IF: 7.7**), 2025. **[paper]**

[4] **Zhao Wang**, Aoxue Li, Lingting Zhu, Yong Guo, Qi Dou, Zhenguo Li. "CustomVideo: Customizing Text-to-Video Generation with Multiple Subjects". *under review at IEEE Transactions on Multimedia (**TMM**)*, 2024. **[paper]**

[5] Yuan Wang*, **Zhao Wang***, Junhao Gong*, Di Huang, Tong He, Wanli Ouyang, Jile Jiao, Xuetao Feng, Qi Dou, Shixiang Tang, Dan Xu. "Holistic-Motion2D: Scalable Whole-body Human Motion Generation in 2D Space". *under review at IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**)*, 2024. **[paper]**

[6] **Zhao Wang***, Yeqian Zhang*, Jiayi Gu*, Yueyao Chen, Yonghao Long, Xiang XIa, Puhua Zhang, Chunchao Zhu, Zerui Wang, Qi Dou, Zheng Wang, Zizhen Zhang. "HiEndo: Harnessing Large-Scale Data for Generating High-resolution Laparoscopy Videos under a Two-Stage Framework". *under review at Computer Assisted Surgery (**CAS**)*, 2024.

[7] **Zhao Wang**, Aoxue Li, Zhenguo Li, Qi Dou. "Efficient Transferability Assessment for Selection of Pre-trained Detectors". *IEEE/CVF Winter Conference on Applications of Computer Vision* (**WACV**), 2024. **[paper]**

[8] **Zhao Wang**, Aoxue Li, Fengwei Zhou, Zhenguo Li, Qi Dou. "Open-Vocabulary Object Detection with Meta Prompt Representation and Instance Contrastive Optimization". *British Machine Vision Conference* (**BMVC**), 2023. **[paper]**

[9] **Zhao Wang**, Chang Liu, Shaoting Zhang, Qi Dou. "Foundation Model for Endoscopy Video Analysis via Large-scale Self-supervised Pre-train". *International Conference on Medical Image Computing and Computer-Assisted Intervention* (**MICCAI**), 2023. **[paper]** (early accept)

[10] **Zhao Wang**, Quande Liu, Qi Dou. "Contrastive Cross-site Learning with Redesigned Net for COVID-19 CT Classification". *IEEE Journal of Biomedical and Health Informatics* (**JBHI, IF: 7.7**), 2020. **[paper]** (Ranking 22nd in **Google Scholar Metrics**)

[11] Lingting Zhu, Guying Lin, Jinnan Chen, Xinjie Zhang, Zhenchao Jin, **Zhao Wang**, Lequan Yu. "Large Images are Gaussians: High-quality Large Image Representations with 2D Gaussian Splatting". *The Association for the Advancement of Artificial Intelligence* (**AAAI**), 2025. **[paper]**

[12] Shizhan Gong, Yuan Zhong, Wenao Ma, Jinpeng Li, **Zhao Wang**, Jingyang Zhang, Pheng-Ann Heng, Qi Dou. "3DSAM-adapter: Holistic Adaptation of SAM from 2D to 3D for Promptable Medical Image Segmentation". *Medical Image Analysis* (**MedIA, IF: 10.7**), 2024. **[paper]**

[13] Nan Lu, **Zhao Wang**, Xiaoxiao Li, Gang Niu, Qi Dou, Masashi Sugiyama. "Federated Learning from Only Unlabeled Data with Class-Conditional-Sharing Clients". *International Conference on Learning Representations* (**ICLR**), 2022. **[paper]**

SELECTED AWARDS

- Top 10 Research Nomination Award, ZJU   *2021*
  Highest honor for only **top 20**/50k+ students among all undergraduates and graduates
- Honorable Winnner, Mathematical Contest in Modeling (MCM)   *2020*
- 2nd Prize, The 14th College Student Robot Competition, ZJU (Ranking: **6**/200+ teams)   *2018*
- Northwest A & F University Scholarship (Ranking: **2**/1000+ high school students)   *2016*
- 1st Prize, Chinese Physics Olympiad (CPhO, Province Level, Top **0.1%**)   *2016*

PROFESSIONAL SERVICES

- **Conference Reviewer:** NeurIPS 2023–2025, ICML 2024–2025, ICLR 2024–2025, AAAI 2025, ECCV 2024, WACV 2024–2025, BMVC 2023–2025, MICCAI 2023–2024, ISBI 2023–2024, IPCAI 2022
- **Journal Reviewer**: npj Digital Medicine, IJCV, TIP, JBHI, Pattern Recognition Letters, Scientific Reports
- **Volunteer Helper**: Medical Imaging meets NeurIPS, 2022
- **Program Committee**: Distributed, Collaborative and Federated Learning Workshop@MICCAI, 2022–2025
- **Membership**: IEEE Student Member, ACM Student Member

TEACHING

Teaching Assistant:

- CSCI1110 Problem Solving by Programming, CUHK   Fall 2022
- CSCI1030 Hands-On Introduction to Java, CUHK   Spring 2022
- CSCI3230 Fundamentals of Artificial Intellgence (with Elite-Mirror ESTR 3108), CUHK   Fall 2021

SKILLS

- **Programming Languages:** Python, C/C++, Bash, HTML/CSS
- **Tools and Frameworks:** PyTorch, LaTeX, Git
- **Platforms:** Linux, MacOS, Windows