

GU Zheng 顾 峥

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BIOGRAPHY

I am a Ph.D. candidate at School of Computer Science, Nanjing University, advised by Professor Yang GAO. I am also a joint Ph.D. at Department of Computer Science, City University of Hong Kong, advised by Professor Jing LIAO. My research interests lay in machine learning (few-shot learning, continual learning, and domain adaptation) and computer vision (image/video processing, generation, and editing). I am dedicated to improve the robustness and transferability of visual generation models (like GANs, Auto-regressive Models, and Diffusion Models) in open-world scenarios with cross-domain, few-shot, and multi-modality data.

EDUCATION

City University of Hong Kong	Kowloon, Hong Kong, China
Joining Ph.D. in Computer Science	Sep.2022 — now
Nanjing University	Nanjing, Jiangsu, China
Ph.D. in Computer Science	Sep.2018 — Dec.2024
Nanjing University	Nanjing, Jiangsu, China
B.Sc. in Computer Science	Sep.2013 — Jul.2017

PUBLICATIONS

1. **Zheng Gu**, Shiyuan Yang, Jing Liao, Jing Huo, and Yang Gao. **Analogue: Out-of-the-box Visual In-Context Learning with Image Diffusion Model**. *ACM Transactions on Graphics (TOG)*, 2024. (CCF-A, JCR Q1, IF=7.8)
2. **Zheng Gu**, Wenbin Li, Tianyu Ding, Zhengli Wang, Jing Huo, Kuihua Huang, and Yang Gao. **Task-aware Few-shot Image Generation via Dynamic Local Distribution Estimation and Sampling**. *Chinese Conference on Pattern Recognition and Computer Vision (PRCV)*, 2024. (CCF-C)
3. **Zheng Gu**, Chuanqi Dong, Jing Huo, Wenbin Li, and Yang Gao. **CariME: Unpaired Caricature Generation with Multiple Exaggerations**. *IEEE Transactions on Multimedia (TMM)*, 2021. (CCF-B, JCR Q1, IF=8.4)
4. **Zheng Gu**, Wenbin Li, Jing Huo, and Yang Gao. **LoFGAN: Fusing Local Representations for Few-shot Image Generation**. *International Conference on Computer Vision (ICCV)*, 2021. (CCF-A)
5. Wen Ji, Kelei He, Jing Huo, **Zheng Gu**, and Yang Gao. **Unsupervised Domain Attention Adaptation Network for Caricature Attribute Recognition**. *European Conference on Computer Vision (ECCV)*, 2020. (CCF-B)
6. Chuanqi Dong, Wenbin Li, Jing Huo, **Zheng Gu**, and Yang Gao. **Learning Task-aware Local Representations for Few-shot Learning**. *International Joint Conference on Artificial Intelligence (IJCAI)*, 2020. (CCF-A)
7. Chuanqi Dong, **Zheng Gu**, Zhonghao Huang, Wen Ji, Jing Huo, and Yang Gao. **DeepMEF: A Deep Model Ensemble Framework for Video Based Multi-modal Person Identification**. *ACM International Conference on Multimedia (ACM MM)*, 2019. (CCF-A)

ACADEMIC SERVICE

- **Conference Reviewer:** SIGGRAPH Asia, ICCV, ECCV, WACV, ACCV
- **Journal Reviewer:** IJCV, Multimedia Systems, Journal of Software

TEACHING ASSISTANT

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|---|------------------------------|
| • Database Systems | City University of Hong Kong |
| Maintain and improve the online judge system. | Sep.2022 — Apr.2023 |
| • Object-oriented Design Method | Nanjing University |
| Give lectures, supervise assignments and projects. | Sep.2019 — Jan.2020 |
| • Artificial Intelligence | Nanjing University |
| Give lectures and supervise undergraduate projects. | Sep.2018 — Jan.2019 |

HONORS & AWARDS

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|---|------|
| • Huawei Scholarship, Nanjing University | 2021 |
| • Suzhou Yucai Scholarship, Nanjing University | 2021 |
| • Outstanding Postgraduate Student, Nanjing University | 2021 |
| • Yingcai Scholarship, Nanjing University | 2020 |
| • PhD Talent Scholarship, Nanjing University | 2020 |
| • The 3rd place of iQIYI Celebrity Video Identification Challenge, ACM MM | 2019 |

EXTRA-CURRICULAR ACTIVITIES

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|---|---|
| • Research Assistant | Shenzhen Research Institute, City University of Hong Kong |
| Research in image and video generation with large vision-language models. | Dec.2023 — Jul.2024 |
| • President of CCF Student Club | Nanjing University |
| Involved in the founding, daily operations, and event planning of the club. | Dec.2019 — Mar.2021 |
| • High School Mathematics Volunteer Teacher | Yunnan Province |
| Instruct primary school students in mathematics in the mountainous regions. | Aug.2017 — Jul.2018 |
| • Vice President of the Student Union | Department of Computer Science, Nanjing University |
| Organize activities to help students enrich their university life. | Sep.2015 — Aug.2016 |