

# YANYUAN QIAO

Personal Website · Google Scholar · Email

## BIO

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Yanyuan Qiao is a Postdoctoral Research Fellow working with A.P. Qi Wu, at the Australian Institute for Machine Learning (AIML), The University of Adelaide. She has been working on multi-modal learning tasks, such as Vision-and-Language Navigation, Text-to-Image Synthesis, and Visual Question Answering, and has published papers in top journals and conferences.

## RESEARCH INTEREST

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Vision-and-Language, Embodied AI.

## WORK EXPERIENCE

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<b>Australian Institute For Machine Learning</b> , Adelaide, Australia <i>Postdoctoral Research Fellow</i>	<i>Nov. 2023 – Present</i>
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## EDUCATION

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<b>The University of Adelaide</b> , Adelaide, Australia <i>PhD</i> in Computer Science	<i>Sep. 2020 – Nov. 2023</i>
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<b>University of Chinese Academy of Sciences</b> , Beijing, China <i>MEng</i> in Electronics and Communication Engineering	<i>Sep. 2016 – Jun. 2019</i>
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<b>Southeast University</b> , Nanjing, China <i>BEng</i> in Sensor Network Technology	<i>Aug. 2012 – Jun. 2016</i>
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## PUBLICATIONS

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### Journals

- **Yanyuan Qiao**, Yuankai Qi, Yicong Hong, Zheng Yu, Peng Wang, Qi Wu. HOP+: History-enhanced and Order-aware Pre-training for Vision-and-Language Navigation. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2023.
- **Yanyuan Qiao**, Chaorui Deng, Qi Wu. Referring Expression Comprehension: A Survey of Methods and Datasets. *IEEE Transactions on Multimedia (TMM)*, 2020.
- Zhiwei Fang, Jing Liu, Yong Li, **Yanyuan Qiao**, Hanqing Lu. Improving Visual Question Answering Using Dropout and Enhanced Question Encoder. *Pattern Recognition (PR)*, 2019.

### Conferences

- Mingzhen Sun, Weining Wang, **Yanyuan Qiao**, Jiahui Sun, Zihan Qin, Longteng Guo, Xinxin Zhu, Jing Liu. MM-LDM: Multi-Modal Latent Diffusion Model for Sounding Video Generation. *ACM Multimedia Conference (ACMMM)*, 2024.
- **Yanyuan Qiao**, Qianyi Liu, Jiajun Liu, Jing Liu, Qi Wu. LLM as Copilot for Coarse-grained Vision-and-Language Navigation. *European Conference on Computer Vision (ECCV)*, 2024.
- **Yanyuan Qiao**, Yuankai Qi, Zheng Yu, Jing Liu, Qi Wu. March in Chat: Interactive Prompting for Remote Embodied Referring Expression. *International Conference on Computer Vision (ICCV)*, 2023.
- **Yanyuan Qiao**, Zheng Yu, Qi Wu. VLN-PETL: Parameter-Efficient Transfer Learning for Vision-and-Language Navigation. *International Conference on Computer Vision (ICCV)*, 2023.

- **Yanyuan Qiao**, Yuankai Qi, Yicong Hong, Zheng Yu, Peng Wang, Qi Wu. HOP: History-and-Order Aware Pre-training for Vision-and-Language Navigation. *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
- **Yanyuan Qiao**, Qi Chen, Chaorui Deng, Ning Ding, Yuankai Qi, Mingkui Tan, Xincheng Ren, Qi Wu. R-GAN: Exploring Human-like Way for Reasonable Text-to-Image Synthesis via Generative Adversarial Networks. *ACM International Conference on Multimedia (ACM MM)*, 2021.
- **Yanyuan Qiao**, Zheng Yu, Jing Liu. RANKVQA: Answer Re-ranking for Visual Question Answering. *IEEE International Conference on Multimedia and Expo (ICME)*, 2020. **(Oral)**
- **Yanyuan Qiao**, Zheng Yu, Jing Liu. VC-VQA: Visual calibration mechanism for Visual Question Answering. *IEEE International Conference on Image Processing (ICIP)*, 2020.
- Zhiwei Fang, Jing Liu, **Yanyuan Qiao**, Qu Tang, Yong Li, Hanqing Lu. Enhancing Visual Question Answering Using Dropout. *ACM International Conference on Multimedia (ACM MM)*, 2018.

## Workshops

- Xiangyu Shi, **Yanyuan Qiao**, Qi Wu, Lingqiao Liu, Feras Dayoub. Improving Online Source-free Domain Adaptation for Object Detection by Unsupervised Data Acquisition. *ECCV Workshop on ROAM*, 2024.
- Zheng Yu, **Yanyuan Qiao**, Yutong Xie, Qi Wu. Multi-Modal Adapter for Medical Vision-and-Language Learning. *International Workshop on Machine Learning in Medical Imaging (MLMI@MICCAI)*, 2023.

## Preprints

- **Yanyuan Qiao**, Zheng Yu, Longteng Guo, Sihan Chen, Zijia Zhao, Mingzhen Sun, Qi Wu, Jing Liu. VL-Mamba: Exploring State Space Models for Multimodal Learning. *ArXiv*, 2024.

## HONORS AND AWARDS

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### Honors & Scholarship:

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| • Dean's Commendation for Doctoral Thesis Excellence                              | 2023 |
| • ICCV Doctoral Consortium  | 2023 |
| • Ecoles d'été France Excellence Scholarship                                      | 2018 |
| • University of Chinese Academy of Sciences 2016-2017 Outstanding Student         | 2017 |
| • University of Chinese Academy of Sciences Academic Scholarship                  | 2016 |
| • Southeast University 2014-2015 Course Scholarship                               | 2015 |
| • Southeast University Individual Scholarship for Excellence in Social Practice   | 2013 |
| • Southeast University Individual Scholarship for Excellence in Volunteer Service | 2013 |

### Awards & Prizes:

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| • 4th place in the VQA Challenge at CVPR Workshop 2018 | 2018 |
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## PROFESSIONAL ACTIVITIES

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- Conference Reviewer: CVPR 2024, ECCV 2024, NeuIPS 2024, ACM MM 2024, AAAI 2024, ICRA 2024, BMVC 2021/2023/2024, WACV 2024.
- Journal Reviewer: IJCV, TCSVT, TOMM