Qi Chen

⚲ Homepage · ⚲ Google Scholar · Citations>1,300 · H-index=16

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☑ About Me

Qi Chen is currently a postdoctoral research fellow at the Australian Institute for Machine Learning (AIML), the University of Adelaide, working with *Prof. Anton van den Hengel* (Director of AIML) and *A/Prof. Qi Wu*. He obtained his PhD in 2024 from the University of Adelaide , under the supervision of *A/Prof. Qi Wu* and *Asst. Prof. Yuankai Qi*. He received his Master's and Bachelor's degrees from South China University of Technology (SCUT) under the supervision of *Prof. Jian Chen* and *Prof. Mingkui Tan*.

He focuses mainly on **Generative AI**, **Multimodal Large Language Models**, and **AI4Medicine**. He has **30+** peer-reviewed publications, most in flagship journals/conference proceedings, including IEEE TPAMI/ TIP/ TMM, CVPR, NeurIPS, ICCV, etc. His research has attracted over **1,300** citations with an H-index of **16** (Google Scholar). He also serves as a reviewer for top-tier journals/conference proceedings, including Nature Communications, IEEE-TPAMI, IJCV, CVPR, ICML, NeurIPS, ICLR, ICCV, ECCV, etc. He is fluent in Mandarin, Cantonese, and English.

🎓 Education

The University of Adelaide, Australia   2021 – 2024

PhD candidate at the School of Computer Science, Supervisor: *A/Prof. Qi Wu* & *Asst. Prof. Yuankai Qi*

South China University of Technology (SCUT), China   2017 – 2020

Master student at the School of Software Engineering, Supervisor: *Prof. Jian Chen* & *Prof. Mingkui Tan*

South China University of Technology (SCUT), China   2013 – 2017

Bachelor student at the School of Software Engineering

⚙ Internship and Work Experience

Postdoctoral Researcher   2024 – Present

Australian Institute for Machine Learning (AIML), The University of Adelaide
Project: Close the Gap between Machine and Human
Work with *Prof. Anton van den Hengel* and *A/Prof. Qi Wu*

Research Assistant   2020 – 2022

Guangdong Artificial Intelligence and Digital Economy Laboratory (Pazhou Lab)
Project: Fundamental Theories and Core Algorithms of AI
Work with *Prof. Yuanqing Li* & *Prof. Mingkui Tan*

Algorithm Engineer (Internship)   2015 – 2016

Guangzhou Shengxingyuan Information Technology Co., Ltd.
Project: Financial Data Analysis Platform
Supported by South China University of Technology (SCUT)

📖 Selected Publications (* equal contribution; † corresponding author))

1. WebVLN: Vision-and-Language Navigation on Websites
   Qi Chen, Dileepa Pitawela, Chongyang Zhao, Gengze Zhou, Hsiang-Ting Chen, Qi Wu
   Association for the Advancement of Artificial Intelligence (**AAAI**), 2024.

2. Weak-eval-Strong: Evaluating and Eliciting Lateral Thinking of LLMs with Situation Puzzles
Qi Chen, Bowen Zhang, Gang Wang, Qi Wu
Advances in Neural Information Processing Systems (**NeurIPS**), 2024.

3. Learning Distinct and Representative Modes for Image Captioning
Qi Chen, Chaorui Deng, Qi Wu
Advances in Neural Information Processing Systems (**NeurIPS**), 2022.

4. V2C: Visual Voice Cloning
Qi Chen, Mingkui Tan, Yuankai Qi, Jiaqiu Zhou, Yuanqing Li, Qi Wu
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022.

5. Scripted Video Generation with a Bottom-up Generative Adversarial Network
Qi Chen, Qi Wu, Jian Chen, Qingyao Wu, Anton van den Hengel, Mingkui Tan
IEEE Transactions on Image Processing (**TIP**), 2020.

6. Intelligent Home 3D: Automatic 3D-House Design from Linguistic Descriptions Only
Qi Chen, Qi Wu, Rui Tang, Yuhan Wang, Shuai Wang, Mingkui Tan
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020.

7. OVG-HQ: Online Video Grounding with Hybrid-modal Queries
Runhao Zeng, Jiaqi Mao, Minghao Lai, Minh Hieu Phan, Yanjie Dong, Wei Wang, **Qi Chen**[†], Xiping Hu
IEEE International Conference on Computer Vision (**ICCV**), 2025.

8. Improving Video Moment Retrieval by Auxiliary Moment-Query Pairs with Hyper-Interaction
Runhao Zeng, Yishen Zhuo, Jialiang Li, Yunjin Yang, Huisi Wu, **Qi Chen**[†], Xiping Hu, Victor C. M. Leung
IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**), 2024.

9. PairAug: What Can Augmented Image-Text Pairs Do for Radiology?
Yutong Xie[*], **Qi Chen**[*], Sinuo Wang, Minh-Son To, Iris Lee, Ee Win Khoo, Kerolos Hendy, Daniel Koh, Yong Xia, Qi Wu IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024.

10. Prompt Switch: Efficient CLIP Adaptation for Text-Video Retrieval
Chaorui Deng[*], **Qi Chen**[*], Pengda Qin, Da Chen, Qi Wu
International Conference on Computer Vision (**ICCV**), 2023.

♡ Honors and Awards

Research Grants

National Natural Science Foundation of China (¥560,000) (CI)	2021 – 2024
Centre for Augmented Reasoning funding (A$20 million) (CI)	2021 – 2025

Awards

Australian Government-funded Research Training Program (RTP) Scholarship ($\sim$ 300 international students globally each year)	2021 – 2024
Golden Award of CICSIC Challenge (International Track) (Awarded to 50 teams, top 0.1% globally)	2024
First-class Scholarship of South China University of Technology (SCUT) (Top 1% students, annually)	2017 – 2020

⚙ Professional Activities

Conference Organization

26th International Conference on Digital Image Computing: Techniques and Applications (DICTA)
Website and Social Media Chair 2025

Conference and Journal Reviews

- **Conference:** CVPR, ICCV, ECCV, NeurIPS, ICML, ICLR, AISTATS, AAAI, MICCAI, SIGGRAPH, etc.
- **Journal:** Nature Communications, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), International Journal of Computer Vision (IJCV), Pattern Recognition (PR), etc.

Presentations

Seeing, Thinking, Creating: Building Smarter Multimodal Generative AI
Venue: Centre for Augmented Reasoning (CAR) Legacy Event   May 2025

Building Smarter Multimodal AI: From Controllable Generative Models to Real-world Applications
Venue: Invited Talk at Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)
Inviter: Asst. Prof. Yutong Xie   Jan 2025

Geometry-enhanced Novel View Synthesis from Single-View Images
Venue: AIML Showcase event, the National Wine Centre, Adelaide   Oct 2024

Multimodal Approaches and Applications in Vision, Language and Audio
Venue: 2023 Global Young Scholars' Forum at CUHK-Shenzhen   Dec 2023

Learning Distinct and Representative Modes for Image Captioning
Venue: AIML Showcase event, Adelaide Oval   Aug 2022

✒ TEACHING EXPERIENCE

Guest Lecturer   2025 Semester 2

Course: Statistical Machine Learning
School of Computer and Mathematical Sciences, The University of Adelaide

Teaching Assistant   2023 Semester 1

Course: Advanced Topics in Computer Science
School of Computer and Mathematical Sciences, The University of Adelaide

Teaching Assistant   2022 Trimester 2

Course: Artificial Intelligence and Machine Learning Research Project Part B
School of Computer and Mathematical Sciences, The University of Adelaide

Teaching Assistant   2022 Trimester 1

Course: Artificial Intelligence and Machine Learning Research Project Part A
School of Computer and Mathematical Sciences, The University of Adelaide

✒ STUDENT SUPERVISION

Hanwen Wang (Ph.D. student) of The University of Adelaide
Position: Co-supervisor, Instructor: Prof. Tim Chen   Mar 2024 – present

Zixiong Huang (Master student) of SCUT
Achievement: One paper has been accepted by CVPR 2024
Position: Co-supervisor, Instructor: Prof. Mingkui Tan   Sep 2022 – Jun. 2025

Jialiang Li (Master student) of Shenzhen MSU-BIT University
Achievement: One paper has been accepted by Journal of Image and Graphics 2024
Position: Co-supervisor, Instructor: A/Prof. Runhao Zeng   Sep 2022 – Jun. 2025

Yishen Zhuo (Master student) of Shenzhen MSU-BIT University
Achievement: One paper has been accepted by TCSVT 2024
Position: Co-supervisor, Instructor: A/Prof. Runhao Zeng   Sep 2022 – Jun. 2025

📖 REFERENCES

1. Anton van den Hengel, Professor, University of Adelaide; ✉ anton.vandenhengel@adelaide.edu.au
2. Qi Wu, Associate Professor, University of Adelaide; ✉ qi.wu01@adelaide.edu.au
3. Mingkui Tan, Professor, South China University of Technology; ✉ mingkuitan@scut.edu.cn
4. Yuankai Qi, Assistant Professor, Macquarie University; ✉ qykshr@gmail.com
5. Jian Chen, Professor, South China University of Technology; ✉ ellachen@scut.edu.cn