

QI CHEN

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✍ ABOUT ME

A postdoctoral researcher at the Australian Institute for Machine Learning (AIML), University of Adelaide. Research interests include computer vision, multi-modality (e.g., vision, language, and audio) and generative models. Published several papers in top AI/CV conferences/journals, including IEEE-TPAMI/TIP/TMM, CVPR, NeurIPS, ICCV, etc. The google citation is 1000+. Serve as a reviewer for several top-tier conferences/journals, including CVPR, ICML, NeurIPS, ICLR, ICCV, ECCV, TPAMI, IJCV, etc.

🎓 EDUCATION

The University of Adelaide, Adelaide, South Australia, Australia 2021 – 2024
PhD candidate at the School of Computer Science, Supervisor: A/Prof. Qi Wu & Dr. Yuankai Qi

South China University of Technology (SCUT), Guangzhou, Guangdong, China 2017 – 2020
Master student at the School of Software Engineering, Supervisor: Prof. Jian Chen & Prof. Mingkui Tan

South China University of Technology (SCUT), Guangzhou, Guangdong, China 2013 – 2017
Bachelor student at the School of Software Engineering

⚙ INTERNSHIP AND WORK EXPERIENCE

Postdoctoral Research Fellow 2024 – Present
Australian Institute for Machine Learning (AIML), The University of Adelaide
Project: Close the Gap between Machine and Human
Work with A/Prof. Qi Wu

Research Assistant (Internship) 2020 – 2022
Guangdong Artificial Intelligence and Digital Economy Laboratory (Pazhou Lab)
Project: Fundamental Theories and Core Algorithms of AI
Work with Prof. Yuanqing Li (IEEE Fellow) & Prof. Mingkui Tan

♡ HONORS AND AWARDS

The Australian Government-funded Research Training Program (RTP) Scholarship 2021 – 2024
The First Prize Scholarship of South China University of Technology (SCUT) 2018 – 2020

📖 PUBLICATIONS (* INDICATES EQUAL CONTRIBUTIONS)

[Multi-modality]

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

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

Learning Distinct and Representative Modes for Image Captioning

Qi Chen, Chaorui Deng, Qi Wu
Advances in Neural Information Processing Systems (NeurIPS), 2022

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

[Generative Models]

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

G-NeRF: Geometry-enhanced Novel View Synthesis from Single-View Images

Zixiong Huang*, **Qi Chen***, Libo Sun, Yifan Yang, Naizhou Wang, Mingkui Tan, Qi Wu

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024

R-GAN: Exploring Human-like Way for Reasonable Text-to-Image Synthesis via Generative Adversarial Networks

Yanyuan Qiao, **Qi Chen**, Chaorui Deng, Ning Ding, Yuankai Qi, Mingkui Tan, Xincheng Ren, Qi Wu

ACM International Conference on Multimedia (ACM MM), 2021

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

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

Auto-embedding Generative Adversarial Networks for High Resolution Image Synthesis

Yong Guo*, **Qi Chen***, Jian Chen, Qingyao Wu, Qinfeng Shi, Mingkui Tan

IEEE Transactions on Multimedia (TMM), 2019

[Computer Vision]

Towards Lightweight Super-Resolution with Dual Regression Learning

Yong Guo, Mingkui Tan, Zeshuai Deng, Jingdong Wang, **Qi Chen**, Jiezhong Cao, Yanwu Xu, Jian Chen

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2024

Towards Accurate and Compact Architectures via Neural Architecture Transformer

Yong Guo, Yin Zheng, Mingkui Tan, **Qi Chen**, Zhipeng Li, Jian Chen, Peilin Zhao, Junzhou Huang

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2021

Contrastive Neural Architecture Search with Neural Architecture Comparators

Yaofu Chen, Yong Guo, **Qi Chen**, Minli Li, Yaowei Wang, Wei Zeng, Mingkui Tan

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021

Closed-loop Matters: Dual Regression Networks for Single Image Super-Resolution

Yong Guo, Jian Chen, Jingdong Wang, **Qi Chen**, Jiezhong Cao, Zeshuai Deng, Yanwu Xu, Mingkui Tan

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020

Dynamic Extension Nets for Few-shot Semantic Segmentation

Lizhao Liu*, Junyi Cao*, Minqian Liu*, Yong Guo*, **Qi Chen***, Mingkui Tan

ACM International Conference on Multimedia (ACM MM), 2020

Modular Graph Attention Network for Complex Visual Relational Reasoning

Yihan Zheng, Zhiquan Wen, Mingkui Tan, Runhao Zeng, **Qi Chen**, Yaowei Wang, Qi Wu

Proceedings of the Asian Conference on Computer Vision (ACCV), 2020

NAT: Neural Architecture Transformer for Accurate and Compact Architectures

Yong Guo, Yin Zheng, Mingkui Tan, **Qi Chen**, Jian Chen, Peilin Zhao, Junzhou Huang

Advances in Neural Information Processing Systems (NeurIPS), 2019