

# 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 17 papers in top AI/CV conferences/journals, including IEEE-TPAMI/TIP/TMM, CVPR, NeurIPS, ICCV, etc. The google citation is 988 with an h-index of 13. 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

**Algorithm Engineer (Internship)** 2015 – 2016  
Guangzhou Shengxingyuan Information Technology Co., Ltd.  
Project: Financial Data Analysis Platform  
Supported by South China University of Technology (SCUT)

## ♡ 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**

Yaofo 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, Zhiqian 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