

CHENYANG QI

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EDUCATION

Hong Kong University of Science and Technology *Sep. 2020 - (expected) Sep. 2024*
Ph.D. in Department of Computer Science and Engineering
Supervisor: Prof. Qifeng Chen

Zhejiang University *September 2016 - June 2020*
B.E in Automation, from Department of Electrical Engineering *GPA Ranking: 1%*
Chu Kochen Honors College

WORK EXPERIENCE

Google Research, Mountain View *July 2023 - Oct. 2023*
Research Intern, supervised by Hossein Talebi, Zhengzhong Tu, and Mauricio Delbracio.
Project: Text based Image/Video Enhancement

Tencent AI Lab, Shenzhen *Jan 2023 - June 2023*
Research Intern, supervised by Xiaodong Cun, Yong Zhang, Xintao Wang and Ying Shan.
Project: Video diffusion models

Microsoft Research Asia, Beijing *June 2022 - November 2022*
Research Intern, supervised by Bo Zhang, Dong Chen and Fang Wen
Project: Talking head synthesis

PUBLICATION

FateZero: Fusing Attentions for Zero-shot Text-based Video Eding
Chenyang Qi, Xiaodong Cun, Yong Zhang, Chenyang Lei, Xintao Wang, Ying Shan, Qifeng Chen
ICCV Oral ($< 5\%$ acceptance rate), 2023;
>800 GitHub stars
A zero-shot text-driven method to support editing of style, attribute, and 3D shape for real-world videos.

Inserting Anybody in Diffusion Models via Celeb Basis
Ge Yuan, Xiaodong Cun, Yong Zhang, Maomao Li, **Chenyang Qi**, Xintao Wang, Ying Shan, Huicheng Zheng
Arxiv, 2023
Integrating a unique individual into the pre-trained diffusion model for interaction with other (new person) concepts.

HyperThumbnail: Real-time 6K Image Rescaling with Rate-distortion Optimization
Chenyang Qi*, Xin Yang*, Ka Leong Cheng, Ying-Cong Chen, Qifeng Chen
CVPR, 2023
Image upscaling with learnable frequency-domain quantization to achieve 6K real time speed and best rate-distortion.

MetaPortrait: Identity-Preserving Talking Head Generation with Fast Personalized Adaptation

Bowen Zhang*, **Chenyang Qi***, Pan Zhang, Bo Zhang, HsiangTao Wu, Dong Chen, Qifeng Chen, Yong Wang, Fang Wen

CVPR, 2023

ID-preserving talking head generation framework utilizing 669-points dense landmarks and spatial-temporal enhancement with GAN priors.

Real-time Streaming Video Denoising with Bidirectional Buffers

Chenyang Qi*, Junming Chen*, Xin Yang, Qifeng Chen

ACM Multimedia, 2022

A novel buffer-based architecture with a new pipeline inference algorithm to achieve $100\times$ fast video denoising

Shape from Polarization for Complex Scenes in the Wild

Chenyang Lei*, **Chenyang Qi***, Jiaxin Xie*, Na Fan, Vladlen Koltun, Qifeng Chen

CVPR, 2022

Scene-level normal estimation using a new perspective polarization model.

AWARDS AND SCHOLARSHIPS

China National Scholarship, Top 1% students in Zhejiang University *Oct.2018*

Research and Innovation Scholarships, Outstanding undergraduates in research *Oct.2018*

First Prize of Outstanding Student Scholarship, For twice *Oct.2018 / Oct.2017*

TEACHING ASSISTANT

CS 4901t: Introduction to Computer Vision

CS 4411: Computer Graphics