CHENYANG QI

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EDUCATION

Hong Kong University of Science and Technology *September 2020 - Present*
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

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

MSRA, 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 Editing
Chenyang Qi, Xiaodong Cun, Yong Zhang, Chenyang Lei, Xintao Wang, Ying Shan, Qifeng Chen
Arxiv, 2023
A zero-shot text-driven method to support editing of style, attribute and 3D shape for real-world videos.

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 frequncy-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 pipline inference algorithm to achieve 100× 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