

# CHENYANG QI

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## EDUCATION

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

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

## WORK EXPERIENCE

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**Google, Image and Video Research, Mountain View** *2026*  
Research Scientist.  
Project: Multimodality Generative Model for Veo

**Tencent Hunyuan Multimodal Team, Beijing** *2024 - 2025*  
Research Scientist.  
Project: Pretraining of Diffusion and Autoregressive Model Hunyuan-image 3.0

**Adobe Research, San Jose** *2024*  
Research Intern, supervised by Taesung Park, Jimei Yang.  
Project: Visual Generation based on Autoregressive Model

**Google Research, Mountain View** *2023*  
Intern, supervised by Hossein Talebi, Zhengzhong Tu, Mauricio Delbracio and Peyman Milanfar  
Project: Text-guided Image Restoration based on Diffusion Models

**Tencent AI Lab, Shenzhen** *2023*  
Intern, supervised by Xiaodong Cun, Yong Zhang, Xintao Wang, and Ying Shan.  
Project: Text-guided Video Editing based on Diffusion Models FateZero

**Microsoft Research Asia, Beijing** *2022*  
Intern, supervised by Bo Zhang, Dong Chen, and Fang Wen  
Project: Talking Head Synthesis based on GAN

## PUBLICATION

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**FateZero: Fusing Attentions for Zero-shot Text-based Video Edit**  
**Chenyang Qi**, Xiaodong Cun, Yong Zhang, Chenyang Lei, Xintao Wang, Ying Shan, Qifeng Chen  
ICCV Oral (1.8% acceptance rate), 2023;  
>1k GitHub stars  
A zero-shot text-driven method to support editing of style, attribute, and 3D shape for real-world videos.

## **SPIRE: Semantic Prompt-Driven Image Restoration**

ECCV 2024

**Chenyang Qi**, Zhengzhong Tu, Keren Ye, Mauricio Delbracio, Peyman Milanfar, Qifeng Chen, Hossein Talebi,

Drive image restoration model using the semantic-level prompt to describe target image and instructions to decide types with strengths

## **Instruction-based Image Editing with Planning, Reasoning, and Generation**

CVPR 2025

Liya Ji, **Chenyang Qi**, Qifeng Chen

Separate the instruction editing task with the multi-modality chain of thought prompts, ie, Chain-of-Thought (CoT) planning, editing region reasoning, and editing.

## **Inserting Anybody in Diffusion Models via Celeb Basis**

Ge Yuan, Xiaodong Cun, Yong Zhang, Maomao Li, **Chenyang Qi**, Xintao Wang, Ying Shan, Huicheng Zheng

NeurIPS, 2023

Integrating a unique individual into the pre-trained diffusion model for interaction with other concepts.

## **Adaptive Domain Learning for Cross-domain Image Denoising**

Zian Qian, **Chenyang Qi**, Ka Lung Law, Hao Fu, Chenyang Lei, Qifeng Chen ,

NeurIPS, 2024

## **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× 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

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Oral presentation in ICCV 2023, Top 2% in all paper submission *Oct.2023*

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

## TEACHING ASSISTANT

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CS 4901t: Introduction to Computer Vision

CS 4411: Computer Graphics

## SERVICE

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Reviewer: CVPR, ICCV, ECCV, NeurIPS, ICLR, IJCAI, ACM MM