






JING HE

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EDUCATION

Hong Kong University of Science and Technology

09/2023 ~ 06/2026 (expected)

Information Hub, Guangzhou Campus

Guangzhou, China

- **Doctor of Philosophy in Artificial Intelligence**
- Supervisor: Prof. [Ying-Cong Chen](#)
- Research Topic: **Visual Generative Models (Customized Image Generation, Diffusion for Perception)**

Xiamen University

09/2020 ~ 06/2023

School of Informatics

Xiamen, China

- **Master of Engineering in Artificial Intelligence**
- Supervisor: Prof. [Rongrong Ji](#)
- Research Topic: **Visual Generative Models (Image Generation)**

Wuhan Institute of Technology

09/2016 ~ 06/2020

School of Computer Science and Engineering

Wuhan, China

- **Bachelor of Engineering in Digital Media Technology**
- Grades: 3.62/4.0, Rank: 2/87

RESEARCH (*EQUAL CONTRIBUTION, ORDER RANDOMIZED.)

LOTUS: Diffusion-based Visual Foundation Model for High-quality Dense Prediction (620+ Stars)

09/2024

ICLR 2025 | Project page: lotus3d.github.io

Guangzhou

Jing He*, **Haodong Li***, Wei Yin, Yixun Liang, Leheng Li, Kaiqiang Zhou, Hongbo Zhang, Bingbing Liu, Ying-Cong Chen

TL;DR: Based on Stable Diffusion, Lotus delivers SoTA performance on monocular depth & normal estimation with a simple yet effective fine-tuning protocol that better fits the pre-trained visual prior for dense prediction.

DisEnvisioner: Disentangled and Enriched Visual Prompt for Customized Image Generation (110+ Stars)

04/2024

ICLR 2025 | Project page: disenvisioner.github.io

Guangzhou

Jing He*, **Haodong Li***, Yongzhe Hu, Guibao Shen, Yingjie Cai, Weichao Qiu, and Ying-Cong Chen

TL;DR: DisEnvisioner effectively identifies and enhances the subject-essential features while filtering out other irrelevant ones, enabling exceptional image customization in a tuning-free manner with only a single image.

PixelFolder: An efficient progressive pixel synthesis network for image generation

03/2022

ECCV 2022 | Project page: github.com/jingheya/PixelFolder

Xiamen, Shanghai

Jing He, Yiyi Zhou, Qi Zhang, Jun Peng, Yunhang Shen, Xiaoshuai Sun, Chao Chen, Rongrong Ji

TL;DR: PixelFolde is a progressive pixel synthesis network designed to improve image generation efficiency by utilizing a multi-stage approach and innovative pixel folding operations, while achieving state-of-the-art image quality.

OmniBooth: Learning Latent Control for Image Synthesis with Multi-modal Instruction

10/2024

Arxiv 2024 | Project page: len-li.github.io/omniboosth-web/

Guangzhou

Leheng Li, Weichao Qiu, Xu Yan, **Jing He**, Kaiqiang Zhou, Yingjie Cai, Qing Lian, Bingbing Liu, Ying-Cong Chen

TL;DR: OmniBooth is a framework for flexible image synthesis using multi-modal instructions for spatial control and customization, leveraging a novel latent control signal for integration.

Towards Efficient Diffusion-Based Image Editing with Instant Attention Masks AAAI 2024 Project page: github.com/xiaotianqing/InstDiffEdit <i>Siyu Zou, Jiji Tang, Yiyi Zhou, Jing He, Chaoyi Zhao, Rongsheng Zhang, Zhipeng Hu, Xiaoshuai Sun</i> <i>TL;DR:</i> InstDiffEdit is an efficient diffusion-based image editing method that utilizes cross-modal attention in diffusion models to generate instant masks for image editing.	08/2023 Xiamen
Learning dynamic prior knowledge for text-to-face pixel synthesis ACM MM 2022 Project page: github.com/pengjunn/PixelFace <i>Jun Peng, Xiaoxiong Du, Yiyi Zhou, Jing He, Yunhang Shen, Xiaoshuai Sun, Rongrong Ji</i> <i>TL;DR:</i> PixelFace is a dynamic pixel synthesis network for text-to-face (T2F) generation, which uses dynamic knowledge embeddings derived from text descriptions to guide pixel synthesis.	04/2022 Xiamen
Towards open-ended text-to-face generation, combination and manipulation ACM MM 2022 Project page: github.com/pengjunn/OpenFace <i>Jun Peng, Han Pan, Yiyi Zhou, Jing He, Xiaoshuai Sun, Yan Wang, Yongjian Wu, Rongrong Ji</i> <i>TL;DR:</i> OpenFaceGAN is an end-to-end network for open-ended text-to-face generation, combination, and manipulation, which directly maps text descriptions to faces using a multi-modal latent space.	04/2022 Xiamen

INTERNSHIP

Tencent Youtu Lab <i>Research Intern</i> <ul style="list-style-type: none"> • Mentors: Chao Chen, Qi Zhang • Research Topic: Image Generation 	08/2021 ~ 01/2022 Shanghai, China
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HONORS

<ul style="list-style-type: none"> • HKUST(GZ) Postgraduate Student Fellowship • WIT First-class Scholarship 	<ul style="list-style-type: none"> • WIT Outstanding graduate • WIT Outstanding Student Leader
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