






HAODONG LI

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EDUCATION

University of Pennsylvania (UPenn)

School of Engineering and Applied Science

06/2024 ~ 03/2025 (expected)

Philadelphia, United States

- **Visiting Research Intern**
- Supervisor: Prof. Lingjie Liu
- Research Topic: **3D Vision**

The Hong Kong University of Science and Technology (HKUST)

Information Hub, Guangzhou Campus

09/2023 ~ 06/2025 (expected)

Clear Water Bay, Hong Kong & Guangzhou, China

- **Master of Philosophy (General)**
- Supervisor: Prof. Ying-Cong Chen, Prof. Xin Tong
- Research Topic: **Generative Models, 3D Vision**
- Grades: 3.9/5.0, Credits: 11.0

Zhejiang University (ZJU)

College of Control Science and Engineering

09/2019 ~ 06/2023

Hangzhou, China

- **Bachelor of Engineering in Automation**
- Grades: 3.7/4.0, Credits: 191.0

RESEARCH (*EQUAL CONTRIBUTION, ORDER RANDOMIZED)

StereoDiff: Stereo-Diffusion Synergy for Video Depth Estimation

11/2024

In Submission | Project page: stereodiff.github.io

Philadelphia

Haodong Li, Chen Wang, Jiahui Lei, Zhiyang Dou, Kostas Daniilidis, Jiatao Gu, Lingjie Liu

TL;DR: StereoDiff is a two-stage video depth estimator, uniting stereo matching for global 3D structure in static regions with depth depth diffusion for smooth transitions in dynamic areas, achieving SoTA performance.

LOTUS: Diffusion-based Visual Foundation Model for High-quality Dense Prediction

09/2024

In Submission | Project page: lotus3d.github.io

Guangzhou & Philadelphia

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

07/2024

In Submission | 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.

DIScene: Object Decoupling and Interaction Modeling for Complex Scene Generation

05/2024

SIGGRAPH Aisa 2024

Guangzhou

Xiao-Lei Li, Haodong Li, Hao-Xiang Chen, Tai-Jiang Mu, and Shi-Min Hu

TL;DR: DIScene is capable of generating complex 3D scene with decoupled objects and clear interactions, through a learnable scene graph and hybrid Mesh-Gaussian representation.

LucidDreamer: Towards High-Fidelity Text-to-3D Generation via Interval Score Matching 11/2023
CVPR 2024 Highlight | Project page: github.com/envision-research/luciddreamer Guangzhou

Yixun Liang*, Xin Yang*, Jiantao Lin, **Haodong Li**, Xiaogang Xu, and Ying-Cong Chen
TL;DR: LucidDreamer is a text-to-3D generation framework that distills high-fidelity textures and shapes represented by 3D Gaussians from pre-trained Stable Diffusion with a novel Interval Score Matching objective.

Bi-TTA: Bidirectional Test-Time Adapter for Remote Physiological Measurement 01/2024
ECCV 2024 | Project page: bi-tta.github.io Guangzhou

Haodong Li, Hao Lu, and Ying-Cong Chen
TL;DR: Bi-TTA leverages spatial and temporal consistency with novel prospective and retrospective strategies, enabling pre-trained rPPG models to adapt effectively to target domains using only unannotated instance-level data.

PROJECTS

AlphaCC Zero: A Chinese Chess Robot Powered by Reinforcement Learning 08/2022
Haodong Li, Yipeng Shen, Zhengnan Sun, Jin Zhou, Xiayan Xu, Jiuqiang Zhao, and Yiping Feng Hangzhou
Project demo: <https://youtu.be/V6IXxbrqHmE>

Predictive Analytics of Chemical Indicators in Ironmaking Industry 06/2023
Haodong Li, and Xinmin Zhang Hangzhou

COMPETITIONS

Championship of 2021 RoboCup China Open (Small Size League) Tianjin
First Prize in National Finals of 2021 “Siemens Cup” China Intelligent Manufacturing Challenge Shanghai

HONORS

- HKUST(GZ) Postgraduate Student Fellowship
- ZJU Academic Excellence Award
- ZJU Student Leadership Award
- ZJU Excellent Student Research Training Program
- ZJU Innovation & Entrepreneurship Award