

BOHAO PENG

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Education

The Chinese University of Hong Kong (CUHK)

3rd year Ph.D candidate of Computer Science and Engineering

- Supervisor: Jiaya Jia(IEEE Fellow) and Ming-Chang Yang

Hong Kong

2022-Present

Harbin Institute of Technology, Shenzhen (HITsz)

B.S. candidate of Computer Science and Technology

- Supervisor: Jingyong Su
- GPA: 93.11/100, 3.97/4; Rank: 2/207

Shenzhen

2018-2022

Awards

- National Scholarship (Top 1%)
- ACM-ICPC, International Collegiate Programming Contest, regional: **Gold Medal**
- ACM-ICPC, International Collegiate Programming Contest, regional: **Gold Medal**
- ACM-ICPC, International Collegiate Programming Contest, regional: **Silver Medal**
- ACM-ICPC, International Collegiate Programming Contest, regional: **Silver Medal**
- CCPC, China Collegiate Programming Contest: **Gold Medal**
- CCPC, China Collegiate Programming Contest: **Silver Medal**
- First Ten Top Students in HIT (Top 0.1%)
- Huawei Outstanding Intern

Publications

* Contributed equally

- **Hierarchical Dense Correlation Distillation for Few-Shot Segmentation**

Bohao Peng, Zhuotao Tian, Xiaoyang Wu, Chengyao Wang, Shu Liu, Jingyong Su, Jiaya Jia
Computer Vision and Pattern Recognition (CVPR), 2023. [[Paper](#)]

Highlight Paper (2.5% acceptance rate)

- **Omni-Adaptive Sparse CNNs for 3D Semantic Segmentation**

Bohao Peng, Xiaoyang Wu, Li Jiang, Yukang Chen, Hengshuang Zhao, Zhuotao Tian, Jiaya Jia
Computer Vision and Pattern Recognition (CVPR), 2024.

- **Pointcept: A codebase for point cloud perception research**

Pointcept Contributor - Team Member

Receiving over 2k Github Stars

- **Scalable Language Model with Generalized Continual Learning**

Bohao Peng, Zhuotao Tian, Shu Liu, Mingchang Yang, Jiaya Jia
International Conference on Learning Representations (ICLR), 2024. [[Paper](#)]

- **Controlnext: Powerful and efficient control for image and video generation**

Bohao Peng, Jian Wang, Yuechen Zhang, Wenbo Li, Ming-Chang Yang, Jiaya Jia
Under reviewing [[Paper](#)]

Receiving over 1.7k Github Stars

- **Seg-zero: Reasoning-chain guided segmentation via cognitive reinforcement**

Yuqi Liu *, Bohao Peng *, Zhisheng Zhong, Zihao Yue, Fanbin Lu, Bei Yu, Jiaya Jia

Under reviewing [[Paper](#)]

- **GroupContrast: Semantic-aware Self-supervised Representation Learning for 3D Understanding**

Chengyao Wang, Li Jiang, Xiaoyang Wu, Zhuotao Tian, **Bohao PENG**, Hengshuang Zhao, Jiaya Jia

Computer Vision and Pattern Recognition (CVPR), 2024.

- **Prompt Highlighter: Interactive Control for Multi-Modal LLMs**

Yuechen Zhang, Shengju Qian, **Bohao Peng**, Shu Liu, Jiaya Jia

Computer Vision and Pattern Recognition (CVPR), 2024. [[Paper](#)]

- **Towards Large-scale 3D Representation Learning with Multi-dataset Point Prompt Training**

Xiaoyang Wu, Zhuotao Tian, Xin Wen, **Bohao Peng**, Xihui Liu, Kaicheng Yu, Hengshuang Zhao

Computer Vision and Pattern Recognition (CVPR), 2024. [[Paper](#)]

- **An Improved Baseline for Reasoning Segmentation with Large Language Model**

Senqiao Yang, Tianyuan Qu, Xin Lai, Zhuotao Tian, **Bohao Peng**, Shu Liu, Jiaya Jia

arXiv preprint arXiv:2312.17240 [[Paper](#)]

- **Magic Mirror: ID-Preserved Video Generation in Video Diffusion Transformers**

Yuechen Zhang, Yaoyang Liu, Bin Xia, **Bohao Peng**, Zexin Yan, Eric Lo, Jiaya Jia

Under reviewing [[Paper](#)]

- **A Method and Device for Sperm Morphology Analysis**

Jingyong Su, **Bohao Peng**, Kezhou Li, Dongzhi Jiang

National Invention Patent: 202110083620.6.

Experiences

- **ICPC - International Collegiate Programming Contest - Hong Kong, 2022**

Technical Director

- **China Collegiate Programming Contest - Final, 2019**

Technical Support

- **Noah's Ark Lab Research Intern | Huawei**

Mentor: Dr. Wenbo Li

Receiving Huawei Outstanding Intern