

# BOHAO PENG

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## Education

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### The Chinese University of Hong Kong (CUHK)

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

Hong Kong

2022-Present

- **Supervisor:** [Jiaya Jia](#)(IEEE Fellow) and [Ming-Chang Yang](#)

### Harbin Institute of Technology, Shenzhen (HITSz)

B.S. candidate of Computer Science and Technology

Shenzhen

2018-2022

- **Supervisor:** [Jingyong Su](#)
- **GPA:** 93.11/100, 3.97/4; **Rank:** 2/207

## Awards

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- 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

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\* 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

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- **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**