

# Hongjie Li

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## Education

- 2021 – 2025 **School of EECS, Peking University (PKU)**, *Beijing, China, 100871*  
**PKU Zhi Class (2021)**  
**Relevant Courses:** Computer Vision, Introduction to Visual Computing and Interaction, Character Animation and Motion Simulation, Multimodal Learning, Introduction to Generative Modeling
- 2018 – 2021 **Beijing No.4 High School (BHSF)**, *Beijing, China, 100034*

## Research

### Research Interests

**Computer Vision**, 3D Human-Object/Scene Interaction, 3D Scene Understanding, Generative Visual Models

**Computer Graphics**, 3D Human Motion Synthesis

### Research Experience

- Jan 2023 **CoRe Lab**, Institute for AI, PKU *Student Researcher*  
– Present Visually Grounded Reasoning  
Advisor: Prof. Yixin Zhu

### Research Projects

- Dec. 2023 **Motion Editing via Distinguishing and Composing Atomic Motions**  
– Present Design a 3D human motion generation and editing method that takes fine-grained text description as input.
- June. 2023 **Generating 4D HOIs via Multi-scale Object-Centric HOI Representation**  
– Present Introduce a novel representation for human-object interaction (HOI) and devise a synthesis method that leverages this representation for HOI generation.
- Apr. 2023 **Scaling Up Dynamic Human-Scene Interaction Modeling**  
– Nov. 2023 Propose an MoCap human scene interaction (HSI) dataset and develop a method for generating HSI conditioned on 3D scenes and action labels.

## Preprints and Publications

\* denotes equal contribution, † marks the corresponding authors

2023 **Scaling Up Dynamic 3D Human-Scene Interaction Modelling**

Nan Jiang\*, Zhiyuan Zhang\*, **Hongjie Li**, Xiaoxuan Ma, Zan Wang, Yixin Chen, Tengyu Liu, Yixin Zhu†, Siyuan Huang†

Computer Vision and Pattern Recognition (CVPR) 2024

## Technical Skills

<b>Languages</b>	Python, C/C++
<b>Framework &amp; Tool</b>	PyTorch, Blender, Git

## Professional Activities

### Technical Competitions

2023 **21st "Jiukun Cup" Programming Contest, PKU**

*Third Prize*

## Awards and Scholarships

2023 **Third-Class Scholarship**, Peking University

2023 **Merit Student Award**, Peking University

2022 **Academic Excellence Award**, Peking University