

Pengxiang Zhu

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🌐 <https://github.com/JubSteven>

EDUCATION

- **Shanghai Jiao Tong University** Shanghai, China
Bachelor of Engineering, Computer Science and Engineering (IEEE honor class) Sept 2021 - Current
 - ▶ **Overall GPA:** 92.43/100.00, 4.04/4.30, (Rank 7/129)
 - ▶ **Selected Courses:** Design and Analysis of Algorithms (A+), Principles and Methods of Program Design (A+), Programming Practice (A+), Computer Networking (A+), Mathematical Analysis (A+), Linear and Convex Optimization (A+), Probability and Statistics (A+), Discrete Mathematics (A+)

PUBLICATIONS

- **Multi-view Hand Reconstruction with a Point-Embedded Transformer**
Lixin Yang, Licheng Zhong, Pengxiang Zhu, Xinyu Zhan, Junxiao Kong, Jian Xu, Cewu Lu
 - [Arxiv](#) | [Paper](#) | [Code](#)
 - POEM is a generalizable multi-view hand mesh reconstruction model which embeds a static basis point within the multi-view stereo space. To infer accurate 3D hand mesh from multi-view images, POEM introduce a point-embedded transformer decoder. POEM demonstrates superior generalization ability in real-world applications.
- **FAVOR: Full-body AR-driven Virtual Object Rearrangement Guided by Textual Instructions**
Kailin Li, Lixin Yang, Zenan Lin, Jian Xu, Xinyu Zhan, Yifei Zhao, Pengxiang Zhu, Wenxiong Kang, Kejian Wu, Cewu Lu
 - **AAAI 2024** | [Paper](#)
 - FAVOR presents a novel dataset for Full-body AR-driven Virtual Object Rearrangement. It also proposes a pipeline for producing digital human rearrangement motion sequences.

EXPERIENCE

- **Machine Vision and Intelligence Group, SJTU** Shanghai, China
Undergraduate research intern, supervised by Prof. Cewu Lu and Prof. Lixin Yang Mar 2023 - Current
 - ☰ Computer Vision, 3D Reconstruction
- **Department of Artificial Intelligence, bilibili** Shanghai, China
Algorithm intern, supervised by Dr. Jun Xu Jun 2024 - Sept 2024
 - ☰ Computer Vision, Multi-modal Large Language Models

PROJECTS

- **Chinese Slot Language Understanding** Shanghai, China
CS3602 Natural Language Understanding Course Project December 2023
 - In this project, we build a BERT-based pipeline for Chinese slot understanding. We incorporated Lexicon information into the BERT backbone and achieved descent result on the given noisy dataset. [Code](#) [Report](#)
- **CUT++: Image Style Transfer** Shanghai, China
AI3603 Artificial Intelligence - Theory and Practice Course Project December 2023
 - In this project, we build our CUT++ structure for image style transfer on the renowned CUT model. By introducing attention into the GAN-based model and modifying the PatchNCE loss, we achieve decent result on the given dataset. [GitHub](#) [Report](#)

HONORS AND AWARDS

- Academic Excellence Scholarship of SJTU (top 10%) 2021
- Academic Excellence Scholarship of SJTU (top 10%) 2022
- Long Hu scholarship(5000 ¥, Rank 7/129) 2021-2022
- Finalist of Mathematical Contest of Modeling(top 5% globally) 2022

MISCELLANEOUS

- **Proficient:** Python (PyTorch, NumPy, etc.), C/C++, Linux, Shell, \LaTeX
- **Familiar:** MATLAB, HTML/CSS, Verilog, etc.