

Pengxiang Zhu

🔗 JubSteven.github.io

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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:** 92.55/100.00, 4.06/4.30, (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

- **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
 - Accepted for AAAI 2024.
 - 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 March 2023 - Current
 - ☰ Computer Vision, 3D Reconstruction

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. [🌐 GitHub](#) [📄 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](#)
- **Decision Trees for Classification** Shanghai, China
ICE2601 Information Theory Course Project May 2023
 - An Exploration of Decision Trees. The project involves an introduction to the basic formulation of decision trees and some classical variations. We also design an optimization that introduces node dropout for better generalization capabilities. [🌐 GitHub](#) [📄 Report](#) [📄 PPT](#)
- **Search Engine on Headphones** Shanghai, China
ICE2602 Introduction to Software Engineering Course Project Dec 2022
 - A project that collects data from web spiders and utilizes lucene for core. HTML and Bootstrap are used for front end. CNN is used for query by images while LDA is applied for analysis of the comments. [🌐 GitHub](#) [📄 Report](#)

SKILLS SUMMARY

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

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