

ZHIYI WANG

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EDUCATION

ShanghaiTech University, Shanghai, China

Aug. 2020 — Jun. 2024

- *Status:* Bachelor of Engineering in Computer Science and Technology
- *GPA:* GPA 3.55/4.0.

University of Illinois Urbana-Champaign, Illinois, US

Aug. 2023 — Dec. 2023

- *Status:* Exchange student in College of Liberal Arts and Sciences(LAS)
- *GPA:* GPA 3.89/4.0.

ShanghaiTech University, Shanghai, China

Sep. 2024 — Jun. 2027(expected)

- *Status:* M.S. Program in Computer Science and Technology

EXPERIENCE

Research Assistant, Soolab 🔗

Vision. PI: Prof. Sibeï Yang 🔗

Aug. 2023 — Present

Explore several project on multi-modality LLM, zero-shot HOI detection, view-invariant video understanding.

PROJECTS AND LABS

Pixmath

Nov. 2022 — Jan. 2023

A math formula recognizer designed as the final project of Deep Learning (CS280)

- Aiming to recognize math formulas in images rendered by L^AT_EX engine back to L^AT_EX code.
- Used a CNN-GRU pipeline with attention mechanism.
- Capable of attaining a 25% accuracy rate and a word error rate (WER) of 25% on the CROHME 2013 test set.
- Yields credible recognition outcomes for inline cases.

Realistic Smoke Rendering

Dec. 2022 — Jan. 2023

A renderer supports both surface and volume rendering designed as the final project of Computer Graphics (CS171)

- Implemented basic Monte-Carlo *Path-Tracing* for surface rendering.
- Implemented sampler with *Delta-Tracing* and transmittance estimation with *Ratio-Tracing*, in addition to their integration with surface rendering.

Computer Vision I:

3D reconstruction from multi-view geometry; Image stitching; Image classification with BoW and SVM; Depth estimation using ResNet; Image inpainting with Mean shift and GAN

Computer Graphics I

& GAMES101 :

Stanford CS231n:

Soft-Rasterizer; Bezier & B-spline surface; Path-Tracing with Direct & Indirect Lighting; Mass-Spring System; ML basic; Neural Network modules; RNN & LSTM; Generative Adversarial Networks

HONORS AND AWARDS

2nd Prize, Certified Software Professional Senior (CSP-S)

Nov. 2019

2nd Runner up, Gold Medal, etc, iGEM 2021

Nov. 2021

SKILLS

- **Programming Languages:** Fluent with Python and C/C++
- **Developing Skills:** Pytorch, Arch Linux, Neovim, Git, Bash, L^AT_EX, i3wm,

MISCELLANEOUS

- **GitHub:** <https://github.com/Aiedails> 🔗
- **Languages:** English; Mandarin, Native speaker