

ZHIYI WANG

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EDUCATION

ShanghaiTech University, Shanghai, China Aug. 2020 — Jun. 2024 (expected)

- *Status*: Bachelor of Engineering Candidate in Computer Science and Technology
- *GPA*: GPA 3.52/4.0.

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.

EXPERIENCE

Research Assistant, Soolab 🔗

Vision. PI: Prof. Sibeï Yang 🔗 Aug. 2023 — Present

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-Tracking* and transmittance estimation with *Ratio-Tracking*, 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 : Soft-Rasterizer; Bezier & B-spline surface; Path-Tracing with Direct & Indirect Lighting; Mass-Spring System;

Stanford CS231n: 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