

JIAHAO SHAO

Curriculum Vitae

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Education

Zhejiang University

Hangzhou, China

Bachelor of Automation (overall GPA: 3.93/4.00, major GPA: 3.95/4.00)

2020 - 2024

- **Selected Coursework:** Calculus: 95; Probability and Mathematical Statistics: 99; Signal Analysis and Processing: 93
- **Selected Awards:**
 - Two Second-class Scholarships
 - Finalist Award of Mathematical Contest in Modeling (top 2%)

Research Interests

- 3D Computer Vision, Generative Models.

Publication

- Hongyu Zhou, **Jiahao Shao**, Lu Xu, Dongfeng Bai, Weichao Qiu, Bingbing Liu, Yue Wang, Andreas Geiger, Yiyi Liao. HUGS: Holistic Urban 3D Scene Understanding via Gaussian Splatting, CVPR 2024.
- **Jiahao Shao**, Yuanbo Yang, Hongyu Zhou, Youmin Zhang, Yujun Shen, Matteo Poggi, Yiyi Liao. Learning Temporally Consistent Video Depth from Video Diffusion Priors, arXiv 2024.

Research Experience

Research Intern, Zhejiang University

Hangzhou, China

Advisor: Yiyi Liao

Jul 2023 - Present

Projects

Urban Scene Understanding

Jul 2023 - Dec 2023

- Utilizing 3D Gaussian Splatting for holistic urban scene understanding.

Diffusion Model Distillation

Dec 2023 - Mar 2024

- Distilling high quality training data from pre-trained diffusion model suitable for 3D GAN training with only inexpensive 3D supervision

Learning Video Depth Estimator from Video Diffusion Priors

Mar 2024 - Oct 2024

- Studying how to tame a video generative model to predict reliable depth from input videos and achieves not only per-frame accuracy but, more importantly, cross-frame consistency.

Technical Skills

Python; C; PyTorch; PyTorch Lightning; Linux; Latex; MATLAB