


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

- **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.
- 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.

Research Experience

Research Intern, Zhejiang University

Hangzhou, China

Advisor: Yiyi Liao

Jul 2023 - Present

Projects

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.

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

Urban Scene Understanding

Jul 2023 - Dec 2023

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

Technical Skills

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