Noah Stier

Mountain View, CA
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noahstier.github.io

Experience

Tesla Autopilot — PALO ALTO, CA
Senior Machine Learning Engineer — 2024-present
- 3D scene understanding for autonomous driving.
- Machine learning with large-scale data and compute.

Apple — SEATTLE, WA
PhD Research Intern — 2022-2023
- 3D reconstruction from handheld cameras.
- Published *FineRecon* and *LivePose* at ICCV 2023.

Toyon — GOLETA, CA
Analyst — 2017-2020
- Machine learning for unique and challenging data domains in the defense space. High-performance software with C++ and CUDA.

Procore — CARPINTERIA, CA
Software Engineer — 2016-2017
- Full-stack web development with Ruby on Rails, JavaScript, and React.

Education

University of California, Santa Barbara
Ph.D. in Computer Science — 2019-2024
- AI/ML for 3D computer vision: reconstructing 3D scenes from video.

University of California, Los Angeles
B.S. in Computational Biology — 2012-2016

Selected publications

CVPR 2025 Noah Stier, Alex Rich, Pradeep Sen, Tobias Höllerer. AniGrad: Anisotropic Gradient-Adaptive Sampling for 3D Reconstruction From Monocular Video.

ICCV 2023 Noah Stier, Baptiste Angles, Liang Yang, Yajie Yan, Alex Colburn, Ming Chuang. LivePose: Online 3D Reconstruction from Monocular Video with Dynamic Camera Poses.

ICCV 2023 Noah Stier, Anurag Ranjan, Alex Colburn, Yajie Yan, Liang Yang, Fangchang Ma, Baptiste Angles. FineRecon: Depth-aware Feed-forward Network for Detailed 3D Reconstruction.

3DV 2021 Noah Stier, Alexander Rich, Pradeep Sen, Tobias Höllerer. VoRTX: Volumetric 3D Reconstruction with Transformers for Voxel-wise View Selection and Fusion.