Linyi Jin

jinlinyi@umich.edu • jinlinyi.github.io

Education

University of Michigan — **Michigan, USA**
Ph.D. student in Computer Science and Engineering. Advisor: Prof. David Fouhey — *08.2021- now*

University of Michigan — **Michigan, USA**
M.S. in Robotics — *09.2019–04.2021*

University of Michigan — **Michigan, USA**
B.S.E. in Computer Science, Summa Cum Lauda — *09.2017–04.2019*

Shanghai Jiao Tong University — **Shanghai, China**
B.S.E. in Mechanical Engineering. — *09.2015–08.2019*

Work Experience

Google DeepMind — **New York City, NY**
Student Researcher — *05.2024-04.2025*
Research topic: 4D reconstruction. Supervisor: Noah Snavely, Aleksander Hołyński.

Adobe Inc. — **San Jose, CA**
Computer Vision Research Intern — *05.2021-08.2021*
Research topic: Camera Calibration. Supervisor: Jianming Zhang.

Fouhey AI Lab — **Ann Arbor, MI**
Graduate Student Research Assistant — *05.2019–04.2021*
Advisor: Prof. David Fouhey

Autonomous Robotic Manipulation Lab (ARM Lab) — **Ann Arbor, MI**
Undergraduate Research Assistant — *04.2018–04.2019*
Advisor: Prof. Dmitry Berenson

Publication (* indicates equal contribution)

Stereo4D: Learning How Things Move in 3D from Internet Stereo Videos
Linyi Jin, Richard Tucker, Zhengqi Li, David Fouhey, Noah Snavely, Aleksander Hołyński** — *CVPR 2025* ***Oral***

MegaSaM: Accurate, Fast and Robust Structure and Motion from Casual Dynamic Videos
Zhengqi Li, Richard Tucker, Forrester Cole, Qianqian Wang, Linyi Jin, Vickie Ye, Angjoo Kanazawa, Aleksander Hołyński, Noah Snavely — *CVPR 2025* ***Oral***

3DFIRES: Few Image 3D REconstruction for Scenes with Hidden Surface
Linyi Jin, Nilesh Kulkarni, David Fouhey — *CVPR 2024*

FAR: Flexible, Accurate and Robust 6DoF Relative Camera Pose Estimation
Chris Rockwell, Nilesh Kulkarni, Linyi Jin, Jeong Joon Park, Justin Johnson, David Fouhey — *CVPR 2024* ***Highlight***

Perspective Fields for Single Image Camera Calibration.
Linyi Jin, Jianming Zhang, Yannick Hold-Geoffroy, Oliver Wang, Kevin Matzen, Matthew Sticha, David Fouhey — *CVPR 2023* ***Highlight***

Learning to Predict Scene-Level Implicit 3D from Posed RGBD Data.
Nilesh Kulkarni, Linyi Jin, Justin Johnson, David Fouhey — *CVPR 2023*

PlaneFormers: From Sparse View Planes to 3D Reconstruction.
Samir Agarwala, Linyi Jin, Chris Rockwell, David Fouhey — *ECCV 2022*

Understanding 3D Object Articulation in Internet Videos.
Shengyi Qian, Linyi Jin, Chris Rockwell, Siyi Chen, David Fouhey — *CVPR 2022*

Planar Surface Reconstruction from Sparse Views
Linyi Jin, Shengyi Qian, Andrew Owens, David F. Fouhey — *ICCV 2021* ***Oral***

Associative3D: Volumetric Reconstruction from Sparse Views
Shengyi Qian, Linyi Jin*, David F. Fouhey* *ECCV 2020*

Inferring Occluded Geometry Improves Performance When Retrieving an Object from Dense Clutter
Andrew Price, Linyi Jin*, Dmitry Berenson* *ISRR, 2019*

Service

Reviewer: CVPR, ECCV, ICCV, NeurIPS, 3DV, WACV, ICRA, ICML, TPAMI, TCSVT, SIGGRAPH ASIA **2021–**

Teaching: EECS 442 Computer Vision, University of Michigan **01.2019–04.2019**