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Bio_

Berk Calli, Hao Su, Yu Sun, Ping Tan

I received Ph.D. in Computer Science at UC San Diego advised by professor Hao Su. During my Ph.D. career, I developed the embodied AI simulation platform SAPIEN, now used by hundreds of institutes around the world. Prior to joining UCSD, I earned computer science and math dual bachelor's degrees from University of Illinois Urbana-Champaign.

Education	
University of California San Diego Ph.D. Candidate in Computer Science	2020 - 2024
M.S. Computer Science	2018 - 2020
advisor: Prof. Hao Su University of Illinois Hybana Champaign	
University of Illinois Urbana-Champaign B.S. Computer Science, B.S. Mathematics Dual Degree (with Highest Honors)	2014 - 2018
Selected Publications	
ManiSkill2: A Unified Benchmark for Generalizable Manipulation Skills Jiayuan Gu*, Fanbo Xiang*, Xuanlin Li, Zhan Ling, Xiqiang Liu, Tongzhou Mu, Yihe Tang, Stone Tao, Xinyue Wei, Yunchao Yao, Xiaodi Yuan, Pengwei Xie, Zhiao Huang, Rui Chen, Hao Su	ICLR 2023
ManiSkill: Learning-from-Demonstrations Benchmark for Generalizable Manipulation Skills Tongzhou Mu*, Zhan Ling*, Fanbo Xiang*, Derek Yang*, Xuanlin Li*, Stone Tao, Zhiao Huang, Zhiwei Jia, Hao Su	NeurIPS 2021
Neural Texture Mapping for Volumetric Neural Rendering Fanbo Xiang, Zexiang Xu, Miloš Hašan, Yannick Hold-Geoffroy, Kalyan Sunkavalli, Hao Su	CVPR 2021
SAPIEN: A SimulAted Part-based Interactive ENvironment Fanbo Xiang, Yuzhe Qin, Kaichun Mo, Yikuan Xia, Hao Zhu, Fangchen Liu, Minghua Liu, Hanxiao Jiang, Yifu Yuan, He Wang, Li Yi, Angel Chang, Leonidas Guibas, Hao Su	CVPR 2020
Close the optical sensing domain gap by physics-grounded active stereo sensor simulation	T-RO 2023
Xiaoshuai Zhang, Rui Chen, Ang Li, Fanbo Xiang , Yuzhe Qin, Jiayuan Gu, Zhan Ling, Minghua Liu, Peiyu Zeng, Songfang Han, Zhiao Huang, Tongzhou Mu, Jing Xu, Hao Su	
O2O-Afford: Annotation-free large-scale object-object affordance learning Kaichun Mo, Yuzhe Qin, Fanbo Xiang , Hao Su, Leonidas Guibas	CoRL 2022
MVSNeRF: Fast Generalizable Radiance Field Reconstruction From Multi-View Stereo Anpei Chen, Zexiang Xu, Fuqiang Zhao, Xiaoshuai Zhang, Fanbo Xiang, Jingyi Yu, Hao Su	ICCV 2021
OCRTOC: A Cloud-Based Competition and Benchmark for Robotic Grasping and Manipulation Ziyuan Liu, Wei Liu, Yuzhe Qin, Fanbo Xiang, Minghao Gou, Songyan Xin, Maximo A Roa,	RAL 2021

Academic Activities

Challenge Organizer

SAPIEN ManiSkill Challenge (CVPR 2023, ICLR 2022)

Open Cloud Robot Table Organization Challenge (IROS 2020)

Tutorial Organizer Building and Working in Environments for Embodied AI (CVPR 2022)

Workshop Organizer SEAI: Simulation Technology for Embodied AI (ICCV 2021)

Reviewer CVPR, ICCV, ECCV, SIGGRAPH, ICLR, NeurIPS, AAAI, CoRL, T-RO

Working Experience _____

Senior Director, Robotics Simulation

San Diego

Hillbot

2024 - present

• Leading the design and implementation of robotic simulation systems.

Robotics Simulation Intern

Remote

NVIDIA

June - Sept. 2021, 2022

• Research on robotics and physical simulation.

Research Intern Remote

Adobe June - Sept. 2020

• Research on neural capture and differentiable rendering.

GPU Software Performance Intern

Cupertino, CA

Apple Inc.

June - Sept. 2019

• Improving GPU and machine learning workloads for iOS.