

Richard Liu

guanzhi@uchicago.edu | [Github](#) | [Website](#)

Education

University of Chicago 3 rd year PhD Student, Computer Science Advisor: Rana Hanocka	2022 – Expected 2027
University of Chicago B.A. Economics, B.S. Mathematics (GPA 3.73)	2015 – 2019

Publications

Research Interests: Applied deep learning, geometry processing, computer graphics, computer vision

WIR3D: Semantic and Geometric-Aware 3D Shape Abstraction Richard Liu , Daniel Fu, Noah Tan, Itai Lang, Rana Hanocka Under Review	2024
TEDi: Temporally-Entangled Diffusion for Long-Term Motion Synthesis Jack Zhang, Richard Liu , Noam Aigerman, Vladimir G. Kim, Rana Hanocka SIGGRAPH 2024 (Paper , Website , Code)	2024
Towards Multimodal Interaction with AI-Infused Shape-Changing Interfaces Chenfeng Gao, Wanli Qian, Richard Liu , Rana Hanocka, Ken Nakagaki UIST Poster 2024 (Paper , Video)	2024
HyperFields: Towards Zero-Shot Generation of NeRFs from Text Sudarshan Babu*, Richard Liu *, Avery Zhou*, Michael Maire, Gregory Shakhnarovich, Rana Hanocka ICML 2024 (Paper , Website , Code)	2024
DA Wand: Distortion-Aware Selection using Neural Mesh Parameterization Richard Liu , Noam Aigerman, Vladimir G. Kim, Rana Hanocka CVPR 2023 (Paper , Website , Code)	2022
Text2Mesh: Text-Driven Neural Stylization for Meshes Oscar Michel*, Roi Bar-On*, Richard Liu *, Sagie Benaim, Rana Hanocka CVPR 2022 Oral (Paper , Website , Code)	2021
Designing Online Advertisements via Bandit and Reinforcement Learning Richard Liu , Yusuke Narita, Kohei Yata (Peer-Reviewed) ICML 2021 RL4RealLife Workshop (Paper)	2021

Professional Activities

Reviewer CVPR (2023,2024), SIGGRAPH (2023, 2024), SIGGRAPH Asia (2023,2024), Eurographics (2023), ECCV (2023,2024), CAD (2023,2024)	
SIG Speaker Summer Geometry Institute	2024
SIG Project Leader Summer Geometry Institute	2022
Replicability Stamp Reviewer (GRSI) Instant Neural Graphics Primitives with a Multiresolution Hash Encoding	2022
Teaching Assistant/Guest Lecturer CMSC 23700: Introduction to Computer Graphics	2022

Awards

Eckhardt Graduate Fellowship	2022 - Ongoing
ITA Tech Challenge	Top 150
Dean's List	2015-2019
University Scholar Fellowship	2015-2019

Work Experience

University of Chicago 3DL Rana Hanocka PhD Student	2021 - Present
PhD Intern Adobe Research	Summer 2023
Yale Tobin Center for Economic Policy John Eric Humphries and Yusuke Narita Predoctoral Fellow	2020 - 2021
Booth School of Business Anita Rao Research Professional	2020 – 2020
Voleon Capital Management Operations Associate	2019 – 2020