

# Richard Liu

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## Education

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### University of Chicago

4th 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

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**Research Interests:** Applied AI to geometry processing and computer graphics, computer vision

### WIR3D: Semantic and Geometric-Aware 3D Shape Abstraction

2024

Richard Liu, Daniel Fu, Noah Tan, Itai Lang, Rana Hanocka  
ICCV 2025 Oral ([Paper](#), [Website](#), [Code](#))

### TEDi: Temporally-Entangled Diffusion for Long-Term Motion Synthesis

2024

Jack Zhang, Richard Liu, Noam Aigerman, Vladimir G. Kim, Rana Hanocka  
SIGGRAPH 2024 ([Paper](#), [Website](#), [Code](#))

### Towards Multimodal Interaction with AI-Infused Shape-Changing Interfaces

2024

Chenfeng Gao, Wanli Qian, Richard Liu, Rana Hanocka, Ken Nakagaki  
UIST Poster 2024 ([Paper](#), [Video](#))

### HyperFields: Towards Zero-Shot Generation of NeRFs from Text

2024

Sudarshan Babu\*, Richard Liu\*, Avery Zhou\*, Michael Maire, Gregory Shakhnarovich, Rana Hanocka  
ICML 2024 ([Paper](#), [Website](#), [Code](#))

### DA Wand: Distortion-Aware Selection using Neural Mesh Parameterization

2022

Richard Liu, Noam Aigerman, Vladimir G. Kim, Rana Hanocka  
CVPR 2023 ([Paper](#), [Website](#), [Code](#))

### Text2Mesh: Text-Driven Neural Stylization for Meshes

2021

Oscar Michel\*, Roi Bar-On\*, Richard Liu\*, Sagie Benaim, Rana Hanocka  
CVPR 2022 Oral ([Paper](#), [Website](#), [Code](#))

### Designing Online Advertisements via Bandit and Reinforcement Learning

2021

Richard Liu, Yusuke Narita, Kohei Yata  
(Peer-Reviewed) ICML 2021 RL4RealLife Workshop ([Paper](#))

## Professional Activities

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### Reviewer

CVPR (2023,2024), SIGGRAPH (2023, 2024), SIGGRAPH Asia (2023,2024), Eurographics (2023), ECCV (2023,2024), CAD (2023,2024)

### DA Wand Blender Extension

2025

Implemented and released DA Wand trained model as a Blender extension ([extension link](#))

### SGI Speaker

2024-2025

Introduction to Mesh Parameterization  
Summer Geometry Institute

### SGI Project Leader

2022

Summer Geometry Institute

### Replicability Stamp Reviewer (GRSI)

2022, 2025

## Awards

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

## Work Experience

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