

LUYANG ZHU

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EDUCATION

University of Washington, Seattle, WA, USA

Sept. 2018-June 2024

Ph.D. in Computer Science & Engineering

Advisor: Ira Kemelmacher-Shlizerman, Steve Seitz, Brian Curless

University of Washington, Seattle, WA, USA

Sept. 2018-March 2024

Master in Computer Science & Engineering

Advisor: Ira Kemelmacher-Shlizerman, Steve Seitz, Brian Curless

Peking University, Beijing, China

Sept. 2014-July 2018

B.S. in Computer Science, *Summa Cum Laude*

Advisor: Yizhou Wang

WORKING EXPERIENCE

Member of Technical staff, World Labs Technologies Inc

June. 2024 - Present

Manager: Fei-Fei Li

Generative AI for spatial intelligence.

Student Researcher, Google

June. 2022 - Feb 2024

Advisor: Dawei Yang, Ira Kemelmacher-Shlizerman

Diffusion Models for Virtual Try-On.

Research Intern, Adobe

June. 2021 - Sept 2021

Advisor: Ruben Villegas, Jimei Yang, Jun Saito, Aaron Hertzmann

Learning physics-based human motion prior with VAE.

Research Intern, NVIDIA

June. 2020 - Sept 2020

Advisor: Arsalan Mousavian, Yu Xiang, Dieter Fox

Neural implicit representation for depth completion of transparent objects.

PUBLICATIONS

- Georgios Pavlakos, **Luyang Zhu**, Xiaowei Zhou, Kostas Daniilidis, Learning to Estimate 3D Human Pose and Shape from a Single Color Image, CVPR, 2018.
- Luyang Zhu**, Konstantinos Rematas, Brian Curless, Steve Seitz, and Ira Kemelmacher-Shlizerman, Reconstructing NBA players, ECCV, 2020. (Spotlight)
- Luyang Zhu**, Arsalan Mousavian, Yu Xiang, Hammad Mazhar, Jozef van Eenbergen, Shoubhik Debnath, Dieter Fox, RGB-D Local Implicit Function for Depth Completion of Transparent Objects, CVPR, 2021.
- Luyang Zhu**, Dawei Yang, Tyler Zhu, Fitsum Reda, William Chan, Chitwan Saharia, Mohammad Norouzi, Ira Kemelmacher-Shlizerman, TryOnDiffusion: A Tale of Two UNets, CVPR, 2023.
- Luyang Zhu**, Yingwei Li, Nan Liu, Hao Peng, Dawei Yang, Ira Kemelmacher-Shlizerman, M&M VTO: Multi-Garment Virtual Try-On and Editing, CVPR, 2024. (Highlight)
- Johanna Karras, Yingwei Li, Nan Liu, **Luyang Zhu**, Innfarn Yoo, Andreas Lugmayr, Chris Lee, Ira Kemelmacher-Shlizerman, Fashion-VDM: Video Diffusion Model for Virtual Try-On, SIGGRAPH

RESEARCH EXPERIENCE

Research Assistant, University of Washington

Sept. 2018-June 2024

Advisor: Ira Kemelmacher-Shlizerman, Brian Curless, Steven Seitz

Reconstruct Basketball Players from a Single Image

Physics Based Neural Motion Reconstruction

Diffusion models for Virtual Try-on

Research Assistant, University of Pennsylvania

June 2017-Nov. 2017

Advisor: Kostas Daniilidis

Learning to Estimate 3D Human Pose and Shape from a Single Color Image

Shape and Pose Prediction with Multi-view Depth Representation

Research Assistant, Peking University

Sept. 2016-June 2017

Advisor: Yizhou Wang

Depth Estimation and Semantic Segmentation from a Single Image using Generative Adversarial Network (GAN)

SELECTED AWARDS AND HONORS

University of Washington Reality Lab Fellowship, University of Washington

2018-2022

B.S. degree with *Summa Cum Laude*, Peking University

2018

Excellent Graduate, Peking University

2018

MCM/ICM Interdisciplinary Contest in Modeling® Finalist(0.4%, 11/3663)

2017

Award for Excellent Research Performances, Peking University

2016-2017

Kwang-Hua Scholarship(Top 10%), Peking university

2016-2017

Award for Excellent Research Performances, Peking University

2015-2016

Kwang-Hua Scholarship(Top 10%), Peking university

2015-2016

Award for Excellent Academic Performances, Peking University

2014-2015

Kwang-Hua Scholarship(Top 10%), Peking university

2014-2015

OTHER PROJECTS

EconoExtract: An LLM-Powered Summarization Tool for Economics Research

Aurelia Di, **Luyang Zhu**

Received \$8,000 funding from the OpenAI Researcher Access Program (#ID: 0000008067)

TEACHING

Teaching Assistant, University of Washington

Autumn 2022

CSE490G1 Introduction to Deep Learning

Teaching Assistant, University of Washington

Spring 2021

CSE481V VR Capstone

ACADEMIC SERVICE

Reviewer for CVPR, ECCV, ICCV, SIGGRAPH, SIGGRAPH ASIA

2022-

SKILLS

Programming languages: Python, C/C++, CUDA, HTML
Tools: Jax, Pytorch, Apache beam.