

LUYANG ZHU

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EMPLOYMENT

Member of Technical staff, World Labs Technologies Inc 2024 – Present

Manager: Fei-Fei Li

– *Generative AI for spatial intelligence.*

Student Researcher, Google 2022 – 2024

Advisors: Dawei Yang, Ira Kemelmacher-Shlizerman

– *Diffusion Models for Virtual Try-On.*

Research Intern, Adobe Summer 2021

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

– *Learning physics-based human motion prior with VAE.*

Research Intern, NVIDIA Summer 2020

Advisors: Arsalan Mousavian, Yu Xiang, Dieter Fox

– *Neural implicit representation for depth completion of transparent objects.*

EDUCATION

University of Washington, Seattle, WA, USA 2018 – 2024

Ph.D. in Computer Science & Engineering

Master in Computer Science & Engineering

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

Peking University, Beijing, China 2014 – 2018

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

Advisor: Yizhou Wang

ACADEMIC SERVICE

Reviewer for CVPR, ECCV, ICCV, SIGGRAPH, SIGGRAPH ASIA 2022 – Present

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 Asia, 2024

RESEARCH EXPERIENCE

Research Assistant, University of Washington

2018–2024

Advisors: 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

Summer 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

2016 – 2017

Advisor: Yizhou Wang

- *Depth Estimation and Semantic Segmentation from a Single Image using Generative Adversarial Network*

TEACHING EXPERIENCE

Teaching Assistant, University of Washington

- *CSE490G1 Introduction to Deep Learning*
- *CSE481V VR Capstone*

Autumn 2022

Spring 2021

SELECTED AWARDS AND HONORS

Reality Lab Fellowship, University of Washington

2018 – 2022

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

2015, 2016, & 2017

Award for Excellent Academic Performances, Peking University

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)*

SKILLS

Programming languages: Python, C/C++, CUDA, HTML

Tools: Jax, Pytorch, Apache beam.