

YUFU WANG

PhD Student | World-Grounded 4D Humans for Embodied AI

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EDUCATION

Ph.D. in Computer and Information Science

University of Pennsylvania

September 2021 – May 2026

Advisor: Prof. Kostas Daniilidis

M.S.E in Robotics

University of Pennsylvania

September 2018 – May 2020

B.Sc. in Mechanical Engineering

Rutgers University

September 2014 – May 2018

RESEARCH EXPERIENCE

Research Scientist Intern

Codec Avatars Lab, Meta

May 2025 – October 2025

Built diffusion models that synthesize world-grounded 4D humans from noisy video with incomplete observation (paper forthcoming).

Machine Learning Intern

Meshcapade

May 2024 – November 2024

Developed multimodal promptable models for human recovery that perceive scene context and interactions.

Research Assistant

GRASP Lab, University of Pennsylvania

September 2021 – Present

World-grounded human research to enable embodied AI learning.

TEACHING EXPERIENCE

Teaching Assistant

CIS 580: Machine Perception

Spring 2020, Spring 2023, University of Pennsylvania

Teaching Assistant

CIS 107: Visual Culture Through the Eye of the Computer

Sprint 2022, Fall 2022, University of Pennsylvania

SELECTED WORK

PromptHMR

Using multimodal prompt and context to perceive spatial relationship and interaction.

yufu-wang.github.io/phmr-page/

TRAM

World-grounded 4D human from video (enabling real-to-sim applications).

yufu-wang.github.io/tram4d/

GART

3D Gaussian splatting for human and animal avatars from monocular videos.

https://github.com/JiahuiLei/GART

MMO

Motion diffusion for world-grounded human from noisy and incomplete videos.

paper forthcoming

SKILLS

ML / CV

PyTorch

Diffusion

Transformers

3D/4D Humans

SMPL/SMPL-X

SLAM

3D Gaussian Splatting

Programming & Systems

Python

C/C++

MATLAB

Distributed Training

Slurm

HONORS

The Matthew Leydt Society

Rutgers University

May 2018

Recognized for the highest performance.

Aresty Best Research Poster

Rutgers University

May 2018

Best poster for undergraduate research.