

Wenjia Wang

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Biography

My research focuses on Real2Sim and Sim2Real for embodied agents.

In Real2Sim, I aim to leverage spatial intelligence models with affordable sensing systems to address generalizable human and scene understanding, enabling the acquisition of high-quality, simulation-ready data without tele-operation.

In Sim2Real, I am interested in developing behavior foundation models for robust motor control, while using world models for long-horizon planning and environment modeling, toward more general intelligence for humanoid robots.

Education

The University of Hong Kong

Ph.D. in Computer Science

supervised by Prof. Taku Komura

Jan 2023 – Sep 2026

(expected)

Tongji University

M.E. in Mechanical Engineering

Sep 2016 – May 2019

Nanjing University of Aeronautics and Astronautics

B.E. in Aircraft Design

Sep 2012 – Jun 2016

Selected Publications

EmbodMocap: In-the-Wild 4D Human-Scene Reconstruction for Embodied Agents

CVPR2026

Wenjia Wang, Liang Pan, Huaijin Pi, Yuke Lou, Xuqian Ren, Yifan Wu, Zhouyingcheng Liao, Lei Yang, Rishabh Dabral, Christian Theobalt, Taku Komura ✉.

SIMS: Simulating Stylized Human-Scene Interactions with Retrieval-Augmented Script Generation

ICCV2025

Wenjia Wang, Liang Pan, Zhiyang Dou, Jidong Mei, Zhouyingcheng Liao, Yuke Lou, Yifan Wu, Lei Yang, Jingbo Wang[†], Taku Komura[†].

TokenHSI: Unified Synthesis of Physical Human-Scene Interactions through Task Tokenization

CVPR Oral2025

Liang Pan, Zeshi Yang, Zhiyang Dou, Wenjia Wang, Buzhen Huang, Bo Dai, Taku Komura, Jingbo Wang ✉.

3D Human Reconstruction in the Wild with Synthetic Data Using Generative Models

TPAMI2025

Yongtao Ge, Wenjia Wang, Yongfan Chen, Fanzhou Wang, Lei Yang, Hao Chen, Chunhua Shen.

EMDM: Efficient Motion Diffusion Model for Fast, High-Quality Human Motion Generation

ECCV2024

Wenyang Zhou, Zhiyang Dou[†], Zeyu Cao, Zhouyingcheng Liao, Jingbo Wang, Wenjia Wang, Yuan Liu, Taku Komura, Wenping Wang, Lingjie Liu.

AiOS: All-in-One-Stage Expressive Human Pose and Shape Estimation

CVPR2024

Qingping Sun, Yanjun Wang, Ailing Zeng, Wanqi Yin, Chen Wei, Wenjia Wang, Haiyi Mei, Chi Sing Leung, Ziwei Liu, Lei Yang, Zhongang Cai.

Zolly: Zoom Focal Length Correctly for Perspective-Distorted Human Mesh Reconstruction

ICCV Oral2023

Wenjia Wang, Yongtao Ge, Haiyi Mei, Zhongang Cai, Qingping Sun, Yanjun Wang, Chunhua Shen, Lei Yang ✉, Taku Komura.

HuMMan: Multi-Modal 4D Human Dataset for Versatile Sensing and Modeling

ECCV Oral2022

Zhongang Cai*, Daxuan Ren*, Ailing Zeng*, Zhengyu Lin*, Tao Yu*, **Wenjia Wang***, Xiangyu Fan, Yang Gao, Yifan Yu, Liang Pan, Fangzhou Hong, Mingyuan Zhang, Chen Change Loy, Lei Yang ✉, Ziwei Liu ✉.

Scene Text Image Super-Resolution in the Wild

ECCV2020

Wenjia Wang, Enze Xie, Xuebo Liu, Wenhai Wang, Ding Liang, Chunhua Shen, Xiang Bai.

Experience

Noitom Robotics, Shenzhen, China

Feb 2026 – Present

Research Intern

Seele AI, Shenzhen, China

Jun 2025 – Jan 2026

Research Intern

Shanghai AI Laboratory, Shanghai, China

Sep 2022 – Jul 2023

Research Intern

Tencent Technology, Shanghai, China

Mar 2022 – Aug 2022

Senior Algorithm Researcher

SenseTime, Shenzhen, China

Mar 2021 – Mar 2022

Algorithm Researcher

SenseTime, Beijing / Shenzhen, China

Sep 2019 – Feb 2021

Research Intern

Beijing Xianjian Technology, Beijing, China

May 2019 – Sep 2019

Intern

Academic Service

Conference Reviewer: TIP 2022, ICLR 2023, ICCV 2023, ICLR 2024, ACCV 2024, SIGGRAPH Asia 2024, 3DV 2025, ICLR 2025, CVPR 2026, SIGGRAPH 2026, ECCV 2026.

Journal Reviewer: TIP 2022.