CURRICULUM VITAE · 2026

Tianci Wen

PhD Researcher · 3D Vision, Robotics & Simulation

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RESEARCH PROFILE

PhD researcher at Nankai University working at the intersection of 3D vision and robotics. I build world models, 3D reconstruction and generation systems, and closed-loop simulators for autonomous driving and embodied intelligence. My current work spans 3D Gaussian Splatting, SLAM, multi-sensor state estimation, and physically coherent simulation.

EDUCATION

Nankai University — SINCE 2021
PhD program · advised by Prof. Yongchun Fang

Jilin University — 2017–2021
Undergraduate studies

EXPERIENCE

DJI — APR. 2025–PRESENT
Research intern

Nankai University — SINCE 2021
PhD researcher

SELECTED PUBLICATIONS

2026 **FastGS: Training 3D Gaussian Splatting in 100 Seconds**
Shiwei Ren*, **Tianci Wen***, Yongchun Fang†, Biao Lu
CVPR 2026 · HIGHLIGHT

2025 **SEGS-SLAM: Structure-enhanced 3D Gaussian Splatting SLAM with Appearance Embedding**
Tianci Wen, Zhiang Liu, Biao Lu, Yongchun Fang*
ICCV 2025

2024 **LIVER: A Tightly Coupled LiDAR-Inertial-Visual State Estimator With High Robustness for Underground Environments**
Tianci Wen, Yongchun Fang*, Biao Lu, Xuebo Zhang, Chaoquan Tang
IEEE RA-L 2024 · IROS ORAL

SELECTED PROJECTS

Compact LiDAR-inertial-visual sensing for snake robots
Integrated LiDAR, camera, and IMU in a compact sensing system and evaluated localization across multiple gaits and speeds.

Wheeled-leg robot navigation
Indoor navigation framework based on ROS move_base and LiDAR-inertial odometry.

L3 intelligent crane operation system
Software, sensing hardware, and SLAM development for a large industrial crane.

EARLIER PUBLICATIONS

> **Tianci Wen**, Yongchun Fang, Biao Lu. "Neural network-based adaptive sliding mode control for underactuated dual overhead cranes suffering from matched and unmatched disturbances." *Autonomous Intelligent Systems*, 2022.

> **Tianci Wen**, Yongchun Fang, Biao Lu. "Adaptive antiswing control for underactuated dual overhead crane system using neural network." *Acta Automatica Sinica*, 2023.