

## Yu Guan

Tsinghua University, Beijing P.R.China

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### EDUCATION

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Tsinghua University

Bachelor of Electronic Engineering

Year of completion: 2027(expected)

- GPA : 3.6/4.0

### PUBLICATIONS

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- **LIMMT: Less is More for Motion Tracking**

Yu Guan\*, Zekun Qi\*, Chenghuai Lin, Xuchuan Chen, Wenyao Zhang, Jilong Wang, XinQiang Yu, He Wang, Li Yi

*International Conference on Machine Learning (ICML), 2026*

- **Humanoid Generative Pre-Training for Zero-Shot Motion Tracking**

Zekun Qi\*, Xuchuan Chen\*, Jilong Wang\*, Chenghuai Lin\*, Yunrui Lian, Zhikai Zhang, Yu Guan, Wenyao Zhang, Xinqiang Yu, He Wang, Li Yi†

*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026*

- **HumanTracker: Towards Comprehensive and Human-Aligned Motion Tracking Benchmark**

Dairu Liu\*, Zekun Qi\*, Jiayu ZENG\*, Yu Guan, Chenghuai Lin, Xuchuan Chen, XinQiang Yu, Wenyao Zhang, He Wang, Li Yi

*European Conference on Computer Vision (ECCV), 2026 (Under Review)*

- **Vision To Touch: Generalizable Insertion Contact-State Representation with Real-World RL**

XinQiang Yu\*, Yuxuan Wan, Zekun Qi, Weiheng Liu, Wenyao Zhang, Bowen Xiao, Yu Guan, Xuchuan Chen, Zhizheng Zhang, Li Yi, Zhaoxiang Zhang, He Wang

### RESEARCH EXPERIENCE

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Undergraduate Research Assistant

Sept. 2025 – Present

Institute for Interdisciplinary Information Sciences (IIIS), Tsinghua University

*In collaboration with Beijing Galbot Co., Ltd. Advisor: Prof. Li Yi*

- Conduct research on humanoid robotics, focusing on core areas including data processing pipelines, motion tracking, and Vision-Language-Action (VLA) models.
- Led the primary experiments for the LIMMT (Less is More for Motion Tracking) framework as the First Author. Empirically validated that humanoid tracking models trained on a small, carefully curated subset of motion data outperform those trained on massive, unfiltered datasets.
- Currently exploring novel research directions to advance humanoid perception and control, specifically focusing on Egocentric (Ego-View) data processing and World Action Models (WAM).

Robotics Engineering Intern

July 2025 – Aug. 2025

BYD Co., Ltd., Robotics Division

- Explored the deployment of a stationary dual-arm gripper robot to autonomously execute a specific operational task within an industrial assembly line process.
- Built a foundational understanding of Vision-Language-Action (VLA) models and investigated their potential applications in complex industrial manipulation.

### HONORS & AWARDS

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- Tsinghua University Scholarship for Sports Excellence 2025
- Tsinghua University Scholarship for Social Practice Excellence 2025
- Tsinghua University Scholarship for Social Work Excellence 2024
- Changfeng Alumni Scholarship for Sports Excellence 2024  
*Department of Electronic Engineering, Tsinghua University*

## SKILLS & LANGUAGES

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- **Languages:** Mandarin (Native), **English** (Fluent; TOEFL iBT: 102)
- **Technical Skills:** Python, C/C++, PyTorch, ROS, Linux

## LEADERSHIP & ACTIVITIES

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### Sports & Athletics

- **Tsinghua University Men's Basketball Team (Tier 2)** 2023 – Present  
Active Member. Representing the university in high-level intercollegiate competitions.
- **Department of Electronic Engineering Basketball Team** 2022 – Present  
Captain (2023–2024). Led the team to the **Top 4 in 5v5** University League and **Champions in 3v3** (Division A).
- **Department of Electronic Engineering Football Team** 2025 – Present  
Goalkeeper. Participating in the university's premier football leagues.

### Social Practice & Leadership

- **Founder & Team Leader, "Electronic Explore Euro-Sports" Program** 2024 – 2026  
Initiated and led two research expeditions to **France, UK, and Spain** to study European sports talent development systems.
  - Awarded **University-level Bronze Medal** for 2024 Summer Social Practice.
  - Ranked **1st Place** in the Department of Electronic Engineering for 2026 Winter Social Practice.
- **Class Student Government** 2023 – 2025  
Served as **Class President** (2023–2024) and **Class League Branch Secretary** (2024–2025) for Class EE23. Managed class-wide organizational tasks and student welfare.