Yutang Lin

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Location: Beijing, China
Website | GitHub | Semantic Scholar

Research impact: 150+ Semantic Scholar citations | 500+ GitHub stars across participated projects

EDUCATION

B.S. Candidate in Computer Science, Peking University **2023–2027 (expected)**
Yuanpei College (Tong Class), Beijing, China Most recent semester GPA: **3.784/4.00**

Selected coursework: Introduction to Computing Systems (ICS), Machine Learning, Computer Vision, Reinforcement Learning, Applied Stochastic Processes, Differential Manifolds.

PUBLICATIONS

** Equal contribution; † corresponding author (on FIBER, † denotes FAR team co-lead).*

1. **Yutang Lin**, Guanya Shi †, and C. Karen Liu †, "Action-Aligned Latent Planning for Versatile Humanoid Loco-Manipulation," *arXiv preprint arXiv:2610.24675, 2026 (FIBER).*
2. **Yutang Lin***, Jieming Cui*, Yixuan Li, Wei Liang, Baoxiong Jia †, Yixin Zhu †, and Siyuan Huang †, "LessMimic: Long-Horizon Humanoid Interaction with Unified Distance Field Representations," *Advances in Neural Information Processing Systems (NeurIPS), 2026.*
3. Yixuan Li*, Le Ma*, **Yutang Lin***, Yushi Du, Mengya Liu, Kaizhe Hu, Jieming Cui, Yixin Zhu †, Wei Liang †, Baoxiong Jia †, and Siyuan Huang †, "OmniClone: Engineering a Robust, All-Rounder Whole-Body Humanoid Teleoperation System," *arXiv preprint arXiv:2603.14327, 2026.*
4. Xiaoxuan Ma*, **Yutang Lin***, Yuan Xu, Stephan P. Kaufhold, Jack Terwilliger, Andres Meza, Yixin Zhu †, Federico Rossano †, and Yizhou Wang †, "AlphaChimp: Tracking and Behavior Recognition of Chimpanzees," *International Journal of Computer Vision (IJCV), 2026.*
5. Yushi Du*, Yixuan Li*, Baoxiong Jia*, **Yutang Lin**, Pei Zhou, Wei Liang †, Yanchao Yang †, and Siyuan Huang †, "COLA: Learning Human-Humanoid Coordination for Collaborative Object Carrying," *IEEE International Conference on Robotics and Automation (ICRA), 2026.*
6. Yixuan Li*, **Yutang Lin***, Jieming Cui, Tengyu Liu, Wei Liang †, Yixin Zhu †, and Siyuan Huang †, "CLONE: Closed-Loop Whole-Body Humanoid Teleoperation for Long-Horizon Tasks," *Conference on Robot Learning (CoRL),* ***Spotlight****, 2025.*
7. Jieming Cui*, Zhenghao Qi*, **Yutang Lin***, Yifei Zhao, Yuntian Hu, Eric Kuang, Shuang Qiu, Ruihua Zhang †, Bin He †, and Yixin Zhu †, "GapONet: Nonlinear Operator Learning for Bridging the Humanoid Sim-to-Real Gap," *NeurIPS Workshop on Embodied World Models for Decision Making, 2025.*

RESEARCH EXPERIENCE

General-Purpose Humanoid Loco-Manipulation **Jan–Sep 2026**
Member of Technical Staff, Intern, Amazon Frontier AI and Robotics (FAR) *USA*

- **Led the development of a unified humanoid planning framework** that enables diverse loco-manipulation behaviors through a shared controller, rather than separate task-specific systems.
- **Built and deployed the end-to-end system on a Unitree G1**, demonstrating closed-loop object pickup, door interaction, and transitions between whole-body behaviors in the real world.

Versatile Humanoid-Object Interaction **2025–2026**
Research Intern, BIGAI; Undergraduate Researcher, Peking University *Beijing, China*

- **Co-led the development of a unified whole-body interaction policy** that generalizes across object geometries and performs diverse physical tasks without task-specific motion references.
- Designed and implemented the training and evaluation pipeline for combining interaction skills, enabling a single policy to execute sequences of heterogeneous tasks rather than isolated motions.
- Enabled **closed-loop execution from onboard depth perception** without external motion capture, making the approach more practical for real-world humanoid deployment.

RESEARCH EXPERIENCE (CONTINUED)

Whole-Body Humanoid Teleoperation and Humanoid VLA **2025–2026**
Research Intern, Beijing Institute for General Artificial Intelligence (BIGAI) *Beijing, China*

- **Built the majority of CLONE's implementation and experiments**, enabling robust, coordinated whole-body teleoperation over long-horizon tasks; the work was recognized as a CoRL Spotlight.
- Developed training and real-robot deployment components for **OmniClone**, integrating multiple teleoperation and motion-control inputs into a unified system that runs on accessible computing hardware. Enables both precise humanoid teleoperation and autonomous task execution with a trained VLA.

Visual Behavior Understanding and Sim-to-Real Robotics **2024–2025**
Undergraduate Researcher, CoRe Lab, Peking University; Advisor: Yixin Zhu *Beijing, China*

- **Co-designed and implemented AlphaChimp**, an open-source system for tracking chimpanzees and recognizing their behaviors in video, supporting scalable analysis of animal interactions.
- Developed model components and conducted experiments for **GapONet**, investigating learned compensation for differences between simulated and real humanoid dynamics to improve the transfer of robotic controllers.

AWARDS

Undergraduate Research Award, Yuanpei College, Peking University	2026
Dean's Scholarship, Institute for Artificial Intelligence, Peking University	2026
Yuanpei Scholar, Yuanpei College, Peking University	2025
Soong Ching-ling Scholarship, Soong Ching-ling Foundation	2024
Peking University Freshman Scholarship	2023
Finalist, Regeneron International Science and Engineering Fair (ISEF)	2022
First Prize (China), S.-T. Yau High School Science Award	2021
Second Prize, Tencent XINIUNIAO High School Science Award Competition	2021

SKILLS AND LANGUAGES

Programming and Tools: Python, C++, PyTorch, Linux, ROS 2, Isaac Lab, MuJoCo, Sim-to-Real.

Research: Humanoid control, reinforcement learning, imitation learning, generative models, sim-to-real.

Languages: Chinese (fluent), English (fluent; **TOEFL iBT 5.5/6.0**, 2026 scale).