

FEIYANG WU

800 Peachtree St NE, Atlanta 30308

(+470)439-8510 ◊ feiyangwu@gatech.edu ◊ fei-yang-wu.github.io

EDUCATION

Georgia Institute of Technology	Atlanta, US
<i>Doctor of Philosophy in Machine Learning</i>	(expected) 2027
<i>Master of Science in Computer Science</i>	2023
Chinese University of Hong Kong, Shenzhen	Shenzhen, China
<i>Bachelor of Engineering in Computer Science and Engineering</i>	2020

PUBLICATIONS

Preprints

[P1]	Learning Expressive and Compositional Motion Representation via Spectral Skills	Best Paper Award (1st Place)
	Feiyang Wu, Chenxiao Gao, Chen Yang, Ye Zhao, Bo Dai and Anqi Wu	
	<i>arXiv preprint arXiv:2609.37677</i>	2026
	<i>Workshop version: "Hierarchical Control via Spectral Skills", IROS 2026 Workshop on Compositional and Modular Learning in the Era of Scaling in Robotics</i>	
[P2]	GM-Loco: Terrain-Adaptive Humanoid Locomotion on Granular Media	2026
	Junnosuke Kamohara, Feiyang Wu, Andy Ningang Zong, Daniel I. Goldman, Yashwanth Nakka, Seth Hutchinson and Ye Zhao	
	<i>arXiv preprint arXiv:2609.10286</i>	
[P3]	Humanoid SRL: Augmenting Humanoids with Supernumerary Limbs for Coordinated Loco-Manipulation	2026
	Fukang Liu et al.	
	<i>arXiv preprint arXiv:2610.25628</i>	

Conference Papers

[C1]	SEEC: Stable End-Effector Control with Model-Enhanced Residual Learning for Humanoid Loco-Manipulation	2026
	Jaehwi Jang, Zhuoheng Wang, Ziyi Zhou, Feiyang Wu and Ye Zhao	
	<i>IEEE International Conference on Robotics and Automation (ICRA)</i>	
[C2]	RL-augmented Adaptive Model Predictive Control for Bipedal Locomotion over Challenging Terrain	2026
	Junnosuke Kamohara, Feiyang Wu, Chinmayee Wamorkar, Seth Hutchinson and Ye Zhao	
	<i>IEEE International Conference on Robotics and Automation (ICRA)</i>	
[C3]	Distributional Inverse Reinforcement Learning	Oral (top 0.7%)
	Feiyang Wu, Ye Zhao and Anqi Wu	2026
	<i>International Conference on Machine Learning (ICML)</i>	
[C4]	Inverse Reinforcement Learning with Switching Rewards and History Dependency for Characterizing Animal Behaviors	2025
	Jingyang Ke, Feiyang Wu and Anqi Wu	
	<i>International Conference on Machine Learning (ICML)</i>	
[C5]	Infer and Adapt: Bipedal Locomotion Reward Learning from Demonstrations via Inverse Reinforcement Learning	2024
	Feiyang Wu, Zhaoyuan Gu, Hanran Wu, Anqi Wu and Ye Zhao	
	<i>IEEE International Conference on Robotics and Automation (ICRA)</i>	
[C6]	Inverse Reinforcement Learning with the Average Reward Criterion	2023
	Feiyang Wu, Jingyang Ke and Anqi Wu	
	<i>Conference on Neural Information Processing Systems (NeurIPS)</i>	

Journal Articles

- [J1] | **Stochastic First-Order Methods for Average-Reward Markov Decision Processes** 2025
Tianjiao Li, Feiyang Wu and Guanghui Lan
Mathematics of Operations Research (MOR)
- [J2] | **Learn to teach: Sample-efficient privileged learning for humanoid locomotion over real-world uneven terrain** ICRA 2026 Oral 2025
Feiyang Wu, Xavier Nal, Jaehwi Jang, Wei Zhu, Zhaoyuan Gu, Anqi Wu and Ye Zhao
IEEE Robotics and Automation Letters (RA-L)
- [J3] | **SAniHead: Sketching Animal-like 3D Character Heads Using a View-Surface Collaborative Mesh Generative Network** 2020
Dong Du, Xiaoguang Han, Hongbo Fu, Feiyang Wu, Yizhou Yu, Shuguang Cui and Ligang Liu
IEEE Transactions on Visualization and Computer Graphics (TVCG)

RESEARCH AND WORKING EXPERIENCE

Georgia Tech Research Institute June 2024 - Aug 2024
Research Intern

- Project aims to augment training data in Isaac Sim to reality for robotics arms (UR5). Work with Isaac Lab for constructing a tele-operation platform on collecting data in various crafted scenes.
- Collect data and augment with GenAI and train Diffusion Policies (DP3 and DP). Connect Isaac Lab with ROS2 for hardware demonstration.

Shenzhen Research Institute of Big Data, CUHK Shenzhen Sept. 2020 - Aug. 2021
Linear Programming Solver developer

- Lead developer for large scale general purpose linear programming optimization solvers.
- Implement the primal-dual simplex (sifting), direct solve (Cholesky decomposition), regularization and perturbation techniques in interior point methods.
- Push computational performance comparable to best commercial solver.

Didi Chuxing, Beijing Jan. 2019 - June 2019
Research Intern

- On-site internship in Visual Computing Group. Didi's on-device AR navigation system helps users find route for pick-up locations through visual SLAM (cloud backend).
- Develop and test AR navigation system. Collect and analyse user data.
- Develop machine learning algorithms to improve accuracy of the navigation system with Gradient Boosting decision trees, LSTM sequence models, and Support Vector Machines.

SKILLS

Programming Languages	C/C++, Python, Java, Objective-C, Javascript, HTML/CSS, C#
Software & Tools	LaTeX, MATLAB, Maya, MeshLab, MS Office
Frameworks	PyTorch, TensorFlow, OpenCV, SciKit-Learn, Armadillo