

# Zipeng Fu

✉ [zipengfu@cs.stanford.edu](mailto:zipengfu@cs.stanford.edu)  [zipengfu.github.io](https://github.com/zipengfu)  [github.com/MarkFzp](https://github.com/MarkFzp)

## Education & Experience

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<b>Stanford University</b> PhD in Computer Science <ul style="list-style-type: none"><li>• Advised by Prof. Chelsea Finn</li><li>• Pierre and Christine Lamond Fellow (top 7 in the Computer Science Department)</li><li>• Working on general-purpose robot AI models and mobile manipulation</li></ul>	09/2022 – xx/2025
<b>Google DeepMind</b> Student Researcher <ul style="list-style-type: none"><li>• Worked on large foundation models for robot navigation. Advised by Jie Tan.</li></ul>	06/2023 – 12/2023
<b>Carnegie Mellon University (CMU)</b> Master of Science in Machine Learning Graduate Student Researcher at the Robotics Institute <ul style="list-style-type: none"><li>• Advised by Prof. Deepak Pathak and Prof. Jitendra Malik</li><li>• Worked on legged locomotion using machine learning</li></ul>	08/2020 – 06/2022
<b>University of California, Los Angeles (UCLA)</b> Bachelor of Science in Computer Science and Engineering Bachelor of Science in Applied Mathematics <ul style="list-style-type: none"><li>• Advised by Prof. Song-Chun Zhu, Prof. Mathieu Bauchy, and Prof. Weinan Zhang</li></ul>	09/2016 – 06/2020

## Selected Publications (available at [zipengfu.github.io](https://zipengfu.github.io) | research interests: Robotics, Machine Learning, Computer Vision)

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<b>HumanPlus: Humanoid Shadowing and Imitation from Humans</b> Z. Fu*, Q. Zhao*, Q. Wu*, G. Wetzstein, C. Finn	CoRL 2024
<b>Mobile ALOHA: Learning Bimanual Mobile Manipulation with Low-Cost Whole-Body Teleoperation</b> Z. Fu*, TZ. Zhao*, C. Finn <i>media coverage</i> : MIT Tech Review, IEEE Spectrum, VentureBeat, TechXplore, CGTN, Stanford Daily, South China Morning Post, The Beijing News, The Economic Times (India), Analytics India Magazine, Paris Match (France), The Chosun Daily (Korea), LevTech (Japan), Sanlian Life Weekly, InceptiveMind, 36Kr (China), TMTPos, The Paper (China), Securities Times (China) <i>in-person live demo for</i> : Samsung Research, Toyota Research Institute, Unitree Robotics, XPeng, Dobot Robotics, Ambarella Semiconductor	CoRL 2024
<b>Mobility VLA: Multimodal Instruction Navigation with Long-Context VLMs and Topological Graphs</b> HTL. Chiang*, Z Xu*, Z Fu*, ..., C. Parada*, C. Finn*, P. Xu*, S. Levine*, J. Tan*	CoRL 2024
<b>UMI on Legs: Making Manipulation Policies Mobile with Manipulation-Centric Whole-body Controllers</b> H. Ha*, Y. Gao*, Z. Fu, J. Tan, S. Song	CoRL 2024
<b>Open X-Embodiment: Robotic Learning Datasets and RT-X Models</b> Open X-Embodiment Collaboration led by Google DeepMind	ICRA 2024
<b>Robot Parkour Learning</b> Z. Zhuang*, Z. Fu*, J. Wang, C. Atkeson, S. Schwertfeger, C. Finn, H. Zhao	CoRL 2023 Best System Finalist
<b>Deep Whole-Body Control: Learning a Unified Policy for Manipulation and Locomotion</b> Z. Fu*, X. Chen*, D. Pathak	CoRL 2022 Best System Finalist

**Coupling Vision and Proprioception for Navigation of Legged Robots** CVPR 2022  
Z. Fu\*, A. Kumar\*, A. Agarwal, H. Qi, J. Malik, D. Pathak Best Paper at Multimodal Learning Workshop

**Minimizing Energy Consumption Leads to the Emergence of Gaits in Legged Robots** CoRL 2021  
Z. Fu, A. Kumar, J. Malik, D. Pathak

**RMA: Rapid Motor Adaptation for Legged Robots** RSS 2021  
A. Kumar, Z. Fu, D. Pathak, J. Malik  
*media coverage:* National Geographic (June 2022), Washington Post, Wall Street Journal, DARPA, TechCrunch, CBS TV, Forbes, Meta AI, CNET, TechXplore, L'ADN (France), Digitech News (Italy), CNBeta (China), Synced Review (China), Observador (Portugal), Beretakini (Malaysia), 3DNews (Russia), 15Min (Lithuania), GeekTime (Israel)

**Emergence of Theory of Mind Collaboration in Multi-Agent Systems** NeurIPS 2019 Workshop  
L. Yuan, Z. Fu, L. Zhou, K. Yang, SC. Zhu

**Emergence of Pragmatics from Referential Game between Theory of Mind Agents** NeurIPS 2019 Workshop  
L. Yuan, Z. Fu, J. Shen, L. Xu, J. Shen, SC. Zhu

### Honors

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2023	CoRL 2023 Best System Finalist
2022	CoRL 2022 Best System Finalist
2022	Pierre and Christine Lamond Fellowship
2022	MIT Hewlett Packard Fellowship (declined)
2022	UC Berkeley AI Research Ignition Award (declined)
2022	CVPR 2022 Best Paper at Multimodal Learning Workshop
2020	Latin Honors, UCLA
2019	ACM TURC 2019 Best Paper Runner-up Award
2014	Bronze Medal, British Mathematical Olympiad

### Invited Talks

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**Building Deployable Robot Learning Systems** 2024

- Academic talks: University of Michigan EECS 598-010 (Action and Perception) Guest Lecture, UCSD Contextual Robotics Institute Seminar, City University of Hong Kong GairLab, Stanford ME268 (Robotics, AI and Design of Future Education) Guest Lecture, OpenDriveLab
- Industrial talks: Meta Reality Lab, Coatue, Hugging Face, SF GenAI Summit, Fourier Intelligence, Stardust Robotics, AgileX Robotics

**Deep Whole-Body Control** 2022

- Stanford Vision and Learning Lab

### Professional Services

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**Robotics:** reviewer of ICRA, CoRL, RA-L, IROS

**Machine Learning:** reviewer of NeurIPS, ICML, ICLR, CoLLAs

**Computer Vision:** reviewer of CVPR, ICCV, ECCV

### Technical Skills

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- Python, C++, Bash, C
- PyTorch, TensorFlow, Numpy, Git, ROS, IsaacGym, MuJoCo, PyBullet, RaiSim