

Jin Cheng

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EDUCATION

Doctoral student in Computer Science, ETH Zürich, Switzerland	since 10/2023
Advisor: Prof. Dr. Stelian Coros (ETH Zürich), Prof. Dr. Guanya Shi (Carnegie Mellon University)	
M.Sc. in Mechanical Engineering, ETH Zürich, Switzerland	09/2020 – 07/2023
B.E. in Vehicle Engineering, Tsinghua University, China	09/2016 – 07/2020

RESEARCH EXPERIENCE

Scientific Assistant, ETH Zürich	since 10/2023
Computational Robotics Lab (CRL), supervised by Prof. Dr. Stelian Coros	
Research Intern, Max Planck Institute for Intelligent Systems	04/2023 - 09/2023
Autonomous Learning Group, supervised by Prof. Dr. Georg Martius	
Research Assistant, ETH Zürich	11/2022 - 03/2023
Computational Robotics Lab (CRL), supervised by Prof. Dr. Stelian Coros	
Semester and Master Thesis, ETH Zürich	03/2022 - 11/2022
Robotic Systems Lab (RSL), supervised by Prof. Dr. Marco Hutter	
Research Assistant and Bachelor Thesis, Tsinghua University	09/2019 - 05/2020
State Key Laboratory of Intelligent Green Vehicle and Mobility, supervised by Prof. Dr. Qing Zhou	

PUBLICATIONS

RAMBO: RL-augmented Model-based Whole-body Control for Loco-manipulation (Under Review)	
Jin Cheng , Dongho Kang , Gabriele Fadini , Guanya Shi , Stelian Coros	04/2025
CAIMAN: Causal Action Influence Detection for Sample-efficient Loco-manipulation (Under Review)	
Yuanchen Yuan , Jin Cheng , Núria Armengol Urpí , Stelian Coros	02/2025
Spatio-Temporal Motion Retargeting for Quadruped Robots (Under Review)	
Taerim Yoon , Dongho Kang , Seungmin Kim , Minsung Ahn , Jin Cheng , Stelian Coros , Sungjoon Choi	02/2025
SATA: Safe and Adaptive Torque-Based Locomotion Policies Inspired by Animal Learning (RSS 2025)	
Peizhuo Li , Hongyi Li , Ge Sun , Jin Cheng , Xinrong Yang , Guillaume Bellegarda , Milad Shafiee , Yuhong Cao , Auke Ijspeert , Guillaume Sartoretti	02/2025
DARE: Diffusion Policy for Autonomous Robot Exploration (ICRA 2025)	
Yuhong Cao , Jeric Lew , Jingsong Liang , Jin Cheng , Guillaume Sartoretti	02/2025
RobotKeyframing: Learning Locomotion with High-Level Objectives via Mixture of Dense and Sparse Rewards (CoRL 2024)	
Fateme Zargarbashi , Jin Cheng , Dongho Kang , Robert Sumner , and Stelian Coros	09/2024
Offline Diversity Maximization Under Imitation Constraints (RLC 2024)	
Marin Vlastelica , Jin Cheng , Georg Martius , Pavel Koley	05/2024
Learning Diverse Skills for Local Navigation under Multi-constraint Optimality (ICRA 2024)	
Jin Cheng , Marin Vlastelica , Pavel Koley , Chenhao Li , Georg Martius	02/2024
RL + Model-based Control: Using On-demand Optimal Control to Learn Versatile Legged Locomotion (RA-L)	
Dongho Kang , Jin Cheng , Miguel Zamora , Fateme Zargarbashi , Stelian Coros	09/2023
Haptic Teleoperation of High-dimensional Robotic Systems Using a Feedback MPC Framework (IROS 2022)	
Jin Cheng , Firas Abi-Farraj , Farbod Farshidian , Marco Hutter	10/2022

INVITED TALKS

Frontier AI & Robotics (FAR) @ Amazon	05/2025
Robotics and AI Institute (RAI) @ Zurich	04/2025
Biomimetic Robotics Laboratory @ MIT	11/2023

TEACHING EXPERIENCE

Computational Models of Motion (263-5807-00)	02/2025 - 07/2025
<i>Computational Robotics Lab (CRL) at ETH Zürich, lectured by S. Coros</i>	
Probabilistic Artificial Intelligence (263-5210-00)	08/2024 - 02/2025
<i>Learning & Adaptive Systems Group (LAS) at ETH Zürich, lectured by A. Krause</i>	
Introduction to Machine Learning (252-0220-00)	02/2024 - 08/2024
<i>Learning & Adaptive Systems Group (LAS) at ETH Zürich, lectured by F. Perez Cruz, F. Yang</i>	
Dynamic Programming and Optimal Control (151-0563-01)	08/2022 - 02/2023
<i>Institute for Dynamic Systems and Control (IDSC) at ETH Zürich, lectured by R. D'Andrea</i>	
Recursive Estimation (151-0566-00)	02/2022 - 08/2022
<i>Institute for Dynamic Systems and Control (IDSC) at ETH Zürich, lectured by R. D'Andrea</i>	
Dynamic Programming and Optimal Control (151-0563-01)	08/2021 - 02/2022
<i>Institute for Dynamic Systems and Control (IDSC) at ETH Zürich, lectured by R. D'Andrea</i>	

SKILLS AND SERVICES

Language: Chinese (Native), English (C1), German (B2)
Programming: Python, C++, Git, Docker, L^AT_EX, PyTorch, ROS
Journal Reviewer: RA-L
Conference Reviewer: CoRL, ICRA, IROS, RLC, SIGGRAPH
Workshop Reviewer: EXAIT@ICML2025

SCHOLARSHIPS AND AWARDS

Outstanding Teaching Assistant Award	03/2022
<i>ETH Zürich</i>	<i>Zürich, Switzerland</i>
Friends of Tsinghua Scholarship – German Scholarship	10/2019
<i>Tsinghua University</i>	<i>Beijing, China</i>
Academic Excellence Scholarship	10/2018, 10/2019
<i>Tsinghua University</i>	<i>Beijing, China</i>
Volunteer Public Service Scholarship	10/2018
<i>Tsinghua University</i>	<i>Beijing, China</i>
Integrated Excellence Scholarship	10/2017
<i>Tsinghua University</i>	<i>Beijing, China</i>

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