

Jin Cheng

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EDUCATION

| | |
|---|-------------------|
| Doctoral student in Computer Science, ETH Zürich, Switzerland <i>Advisor: Prof. Dr. Stelian Coros (ETH Zürich), Prof. Dr. Guanya Shi (Carnegie Mellon University)</i> | since 10/2023 |
| 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

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

PUBLICATIONS

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|---|---------|
| Learning Steerable Imitation Controllers from Unstructured Animal Motions (Under Review) <i>Dongho Kang, Jin Cheng, Fatemeh Zargarbashi, Taerim Yoon, Sungjoon Choi, Stelian Coros</i> | 07/2025 |
| RAMBO: RL-augmented Model-based Whole-body Control for Loco-manipulation (Under Review) <i>Jin Cheng, Dongho Kang, Gabriele Fadini, Guanya Shi, Stelian Coros</i> | 04/2025 |
| CAIMAN: Causal Action Influence Detection for Sample-efficient Loco-manipulation (Under Review) <i>Yuanchen Yuan, Jin Cheng, Núria Armengol Urpí, Stelian Coros</i> | 02/2025 |
| Spatio-Temporal Motion Retargeting for Quadruped Robots (Under Review) <i>Taerim Yoon, Dongho Kang, Seungmin Kim, Minsung Ahn, Jin Cheng, Stelian Coros, Sungjoon Choi</i> | 02/2025 |
| SATA: Safe and Adaptive Torque-Based Locomotion Policies Inspired by Animal Learning (RSS 2025) <i>Peizhuo Li, Hongyi Li, Ge Sun, Jin Cheng, Xinrong Yang, Guillaume Bellegarda, Milad Shafiee, Yuhong Cao, Auke Ijspeert, Guillaume Sartoretti</i> | 02/2025 |
| DARE: Diffusion Policy for Autonomous Robot Exploration (ICRA 2025) <i>Yuhong Cao, Jeric Lew, Jingsong Liang, Jin Cheng, Guillaume Sartoretti</i> | 02/2025 |
| RobotKeyframing: Learning Locomotion with High-Level Objectives via Mixture of Dense and Sparse Rewards (CoRL 2024) <i>Fatemeh Zargarbashi, Jin Cheng, Dongho Kang, Robert Sumner, and Stelian Coros</i> | 09/2024 |
| Offline Diversity Maximization Under Imitation Constraints (RLC 2024) <i>Marin Vlastelica, Jin Cheng, Georg Martius, Pavel Kolev</i> | 05/2024 |
| Learning Diverse Skills for Local Navigation under Multi-constraint Optimality (ICRA 2024) <i>Jin Cheng, Marin Vlastelica, Pavel Kolev, Chenhao Li, Georg Martius</i> | 02/2024 |

RL + Model-based Control:

Using On-demand Optimal Control to Learn Versatile Legged Locomotion ([RA-L](#))

Dongho Kang, Jin Cheng, Miguel Zamora, Fatemeh 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

Probabilistic Artificial Intelligence ([263-5210-00](#))

08/2025 - 02/2026

Learning & Adaptive Systems Group (LAS) at ETH Zürich, lectured by A. Krause

Computational Models of Motion ([263-5807-00](#))

02/2025 - 07/2025

Computational Robotics Lab (CRL) at ETH Zürich, lectured by S. Coros

Probabilistic Artificial Intelligence ([263-5210-00](#))

08/2024 - 02/2025

Learning & Adaptive Systems Group (LAS) at ETH Zürich, lectured by A. Krause

Introduction to Machine Learning ([252-0220-00](#))

02/2024 - 08/2024

Learning & Adaptive Systems Group (LAS) at ETH Zürich, lectured by F. Perez Cruz, F. Yang

Dynamic Programming and Optimal Control ([151-0563-01](#))

08/2022 - 02/2023

Institute for Dynamic Systems and Control (IDSC) at ETH Zürich, lectured by R. D'Andrea

Recursive Estimation ([151-0566-00](#))

02/2022 - 08/2022

Institute for Dynamic Systems and Control (IDSC) at ETH Zürich, lectured by R. D'Andrea

Dynamic Programming and Optimal Control ([151-0563-01](#))

08/2021 - 02/2022

Institute for Dynamic Systems and Control (IDSC) at ETH Zürich, lectured by R. D'Andrea

SKILLS AND SERVICES

Language: Chinese (Native), English (C1), German (B2)

Programming: Python, C++, Git, Docker, \LaTeX , 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

ETH Zürich

Zürich, Switzerland

Friends of Tsinghua Scholarship – German Scholarship

10/2019

Tsinghua University

Beijing, China

Academic Excellence Scholarship

10/2018, 10/2019

Tsinghua University

Beijing, China

Volunteer Public Service Scholarship

10/2018

Tsinghua University

Beijing, China

Integrated Excellence Scholarship

10/2017

Tsinghua University

Beijing, China