

Zeji Yi

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Education

Carnegie Mellon University <i>Ph.D in Electrical and Computer Engineering</i>	Aug 2023 – Present
Tsinghua University <i>School of Aerospace Engineering, Master of Science, GPA: 3.97/4.00</i>	Aug 2020 – July 2023
Tsinghua University <i>Tsien Excellenc in Education Program, Bachelor of Engineering Mechanics</i>	Aug 2016 – June 2020

Publications

- Full-Order Sampling-Based MPC for Torque-Level Locomotion Control via Diffusion-Style Annealing**
Haoru Xue*, Chaoyi Pan*, **Zeji Yi**, Guannan Qu, Guanya Shi. *Under Review*, [Link](#) [🔗](#)
- Safe Bayesian Optimization for the Control of High-Dimensional Embodied Systems**
Yunyue Wei, **Zeji Yi**, Hongda Li, Saraswati Soedarmadji, Yanan Sui. *CoRL 2024*, [Link](#) [🔗](#)
- Model Based Diffusion For Trajectory Optimization**
Chaoyi Pan*, **Zeji Yi***, Guanya Shi, Guannan Qu, *NeurIPS 2024*, [Link](#) [🔗](#)
- CoVO-MPC: Theoretical Analysis of Sampling-based MPC and Optimal Covariance Design**
Zeji Yi*, Chaoyi Pan*, Guanqi He, Guannan Qu, Guanya Shi, *L4DC 2024*, [Link](#) [🔗](#)
- Improving Sample Efficiency of High Dimensional Bayesian Optimization with MCMC** [Link](#) [🔗](#)
Zeji Yi*, Yunyue Wei*, Chuxin Cheng*, Kaibo He, Yanan Sui, *L4DC 2024*, [Link](#) [🔗](#)
- Nonlinear Covariance Control via Differential Dynamic Programming**
Zeji Yi, Zhefeng Cao, Evangelos Theodorou, Yongxin Chen, *ACC 2020*, [Link](#) [🔗](#)
- A Remote Adaptive Upper-Limb Training Framework With Collaborative Robot**
Jun Hong Lim, Kaibo He, **Zeji Yi**, Chen Hou, Chen Zhang, Luming Li, Yanan Sui, *45th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, [Link](#) [🔗](#)

Honors and Awards

Graduate with Honor <i>Tsien Excellence in Education Program</i>	2020
Tsinghua Academic Excellence Scholarship (Top 10%)	2018, 2019
Second Class Prize <i>China Undergraduate Mathematical Contest in Modeling</i>	2017
First Class Prize <i>Chinese Physics Olympiad (CPHO)</i> (Top 2%)	2016
Tsinghua-Xuetang Scholar <i>for Excellent Foster Innovative Talent</i>	2016–2018

Skills

Computer: Python, Matlab/Simulink, SolidWorks, C++, LINUX, ROS, Mujoco, COMSOL, ABAQUS
Languages: Mandarin; English