Zeji Yi

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Education

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

Publications

1. **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* ↗

2. **Safe Bayesian Optimization for the Control of High-Dimensional Embodied Systems**
   Yunyue Wei, ***Zeji Yi***, Hongda Li, Saraswati Soedarmadji, Yanan Sui CoRL 2024, *Link* ↗

3. **Model Based Diffusion For Trajectory Optimization**
   Chaoyi Pan*, ***Zeji Yi****, Guanya Shi, Guannan Qu, *NeurIPS 2024, Link* ↗

4. **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* ↗

5. **Improving Sample Efficiency of High Dimensional Bayesian Optimization with MCMC**
   Zeji Yi*, Yunyue Wei*, Chuxin Cheng*, Kaibo He, Yanan Sui, *L4DC 2024, Link* ↗

6. **Nonlinear Covariance Control via Differential Dynamic Programming**
   Zeji Yi, Zhefeng Cao, Evangelos Theodorou, Yongxin Chen, *ACC 2020, Link* ↗

7. **Adaptive Learning based Upper-Limb Rehabilitation Training System with Collaborative Robot**
   Jun Hong Lim, Kaibo He, ***Zeji Yi***, Chen Hou, Chen Zhang, Yanan Sui, Luming Li, *45th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Link* ↗

Honors and Awards

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

Skills

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