

# Zeji Yi

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## Education

<b>Carnegie Mellon University</b> <i>Ph.D in Electrical and Computer Engineering</i>	Aug 2023 – Present
<b>Tsinghua University</b> <i>School of Aerospace Engineering, Master of Science, GPA: 3.97/4.00</i>	Aug 2020 – July 2023
<b>Tsinghua University</b> <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](#) 🔗
- 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

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

## Skills

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