

TAO ZHONG

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EDUCATION

Princeton University <i>Degree:</i> Ph.D. in Mechanical and Aerospace Engineering	08/2023 - Present
University of Toronto <i>Degree:</i> B.A.Sc. in Engineering Science (with High Honour) <i>Major:</i> Robotics Engineering	09/2018 - 06/2023 <i>cGPA:</i> 3.81/4.0 <i>Minor:</i> Artificial Intelligence

EXPERIENCE

CAB Lab , Princeton University <i>Graduate Research Student, Advisor: Prof. Christine Allen-Blanchette</i> Topics: physics-guided dexterous manipulation	09/2023 - Present
People, AI, & Robots Lab , Vector Institute & University of Toronto <i>Undergraduate Research Student, Advisor: Prof. Animesh Garg</i> Topics: differentiable grasp synthesis for dexterous hands, vision-based grasp generation with deep generative model	03/2022 - 08/2023
Noah's Ark Lab , Huawei Research Canada <i>Machine Learning Research Intern, Advisor: Prof. Yang Wang</i> Topics: out-of-distribution prompt generation for foundation models, domain adaptive knowledge distillation from Mixture-of-Experts, cold-start recommendation with meta-learning	05/2021 - 05/2022
aUToronto , The University of Toronto Self-Driving Car Team <i>Mapping & Localization Team Lead, Team Advisors: Prof. Tim Barfoot, Prof. Steven Waslander, Prof. Angela Schoellig, Prof. Jonathan Kelly</i> Topics: semantic map generation and optimization, SLAM algorithm development	08/2020 - 08/2022
Shenzhen Institute of Artificial Intelligence and Robotics for Society , CUHK(SZ) <i>Visiting Research Student, Advisor: Prof. Huihuan Qian</i> Topics: web-based sailboat testing platform, state estimation and control for sailboats	05/2020 - 09/2020

PUBLICATIONS

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- Zhixiang Chi, Li Gu, **Tao Zhong**, Huan Liu, Yuanhao Yu, Konstantinos N Plataniotis, Yang Wang. Adapting to Distribution Shift by Visual Domain Prompt Generation. In submission to *International Conference on Learning Representations (ICLR)*, 2024.
 - Dylan Turpin, **Tao Zhong**, Shutong Zhang, Guanglei Zhu, Eric Heiden, Miles Macklin, Stavros Tsogkas, Sven Dickinson, Animesh Garg. DexGrasp-1M: Dexterous Multi-finger Grasp Generation Through Differentiable Simulation. *IEEE International Conference on Robotics and Automation (ICRA)*, 2023.
 - Tao Zhong***, Zhixiang Chi*, Li Gu*, Yang Wang, Yuanhao Yu, Jin Tang. Meta-DMoE: Adapting to Domain Shift by Meta-Distillation from Mixture-of-Experts. *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.

AWARDS & HONORS

Princeton University First Year Fellowship in Natural Sciences and Engineering	2023
NeurIPS 2022 Scholar Award	2022
SAE Autodrive Challenge: 1st Place Winner (As a team)	2020, 2021, 2022
University of Toronto Dean's Honours List (All 8 terms)	2018 - 2023

SKILLS

Programming Languages:	Python, C/C++, MATLAB/Simulink, SQL, Verilog, ARM Assembly
Libraries & Tools:	PyTorch, NumPy, OpenCV, scikit-learn, ROS, Git, \LaTeX