TAO ZHONG

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EDUCATION		
Princeton University <i>Degree</i> : Ph.D. in Mechanical and Aerospace Engineering <i>Advisor</i> : Christine Allen-Blanchette	<i>cGPA</i> : 4.0/4.0	
University of Toronto Degree: B.A.Sc. in Engineering Science (with High Honour) Major: Robotics Engineering	<i>09/2018 - 06/2023</i> <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-Blance</i> Topics: leveraging symmetries and integrating physics knowledge aware representation learning	09/2023 - Present hette for dexterous manipulation, object-centric dynamics-	
People, AI, & Robots Lab , Vector Institute & University of Toron Undergraduate Research Student, Advisor: Prof. Animesh Garg Topics: differentiable grasp synthesis for dexterous hands [Paper deep generative model	nto 03/2022 - 08/2023 r, Project Page], vision-based grasp generation with	
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 and the start of	05/2021 - 05/2022 dels [Paper, Project Page], domain adaptive knowl-	
aUToronto, The University of Toronto Self-Driving Car Team Mapping & Localization Team Lead, Team Advisors: Prof. Tin Schoellig, Prof. Jonathan Kelly Topics: semantic map generation and optimization, SLAM algorit	08/2020 - 08/2022 m Barfoot, Prof. Steven Waslander, Prof. Angela	
Shenzhen Institute of Artificial Intelligence and Robotics for S <i>Visiting Research Student, Advisor: Prof. Huihuan Qian</i> Topics: web-based sailboat testing platform, state estimation and o	Society, CUHK(SZ) 05/2020 - 09/2020 control for sailboats	

PUBLICATIONS

- 1. 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 *International Conference on Learning Representations (ICLR)*, 2024.
- 2. 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. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2023.
- 3. **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. In *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

Python, C/C++, MATLAB/Simulink, SQL, Verilog, ARM Assembly PyTorch, NumPy, OpenCV, scikit-learn, ROS, Git, LATEX