

Dylan TURPIN

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EDUCATION

JAN 2021-PRESENT	PhD in Computer Science University of Toronto Supervised by Sven Dickinson and Animesh Garg.
SEP 2019-DEC 2020	MSc in Computer Science University of Toronto Supervised by Sven Dickinson and Animesh Garg.
SEP 2015-APR 2019	BSc in Computer Science University of Toronto

WORK EXPERIENCE

JUL 2022-APR 2023	NVIDIA, Toronto, ON, Canada <i>Research Intern</i> Mentor: Miles Macklin. Worked on the <i>Warp</i> differentiable simulator and human/robotic hand-object interaction. Resulted in the <i>Grasp'D</i> and <i>Fast-Grasp'D</i> papers below.
SEP 2019 - PRESENT	University of Toronto, ON, Canada <i>Graduate Research Assistant</i> Supervised by Sven Dickinson and Animesh Garg. Working at the intersection of robotics, simulation and computer vision.

RESEARCH

ICRA 2023	Fast-Grasp'D: Dexterous Multi-finger Grasp Generation Through Differentiable Simulation Dylan Turpin, Tao Zhong, Shutong Zhang, Guanglei Zhu, Jingzhou Liu, Ritvik Singh, Eric Heiden, Miles Macklin, Stavros Tsogkas, Sven Dickinson, Animesh Garg IEEE International Conference on Robotics and Automation (ICRA) 2023
ECCV 2022	Grasp'D: Differentiable Contact-rich Grasp Synthesis for Multi-fingered Hands Dylan Turpin, Liquan Wang, Eric Heiden, Yun-Chun Chen, Miles Macklin, Stavros Tsogkas, Sven Dickinson, Animesh Garg European Conference on Computer Vision (ECCV) 2022 ★ Oral Presentation
CVPR 2022	Neural Shape Mating: Self-Supervised Object Assembly with Adversarial Shape Priors Yun-Chun Chen, Haoda Li, Dylan Turpin, Alec Jacobson, and Animesh Garg Conference on Computer Vision and Pattern Recognition (CVPR) 2022
RSS 2021	GIFT: Generalizable Interaction-aware Functional Tool Affordances without Labels Dylan Turpin, Liquan Wang, Stavros Tsogkas, Sven Dickinson, Animesh Garg Robotics: Science and Systems (RSS) 2021

AWARDS

2023	Vector Institute Research Grant
2022	Vector Institute Research Grant
2021	Healthcare Robotics (HeRo) NSERC CREATE Fellow
2021	Vector Institute Research Grant
2020	Vector Institute Research Grant
2017	NSERC Undergraduate Student Research Award