

ARTUR KURAMSHIN

<https://akuramshin.github.io> | Toronto, Ontario, Canada | artur.kurams@gmail.com | (647) 409-3118

SKILLS

Tools: PyTorch, ROS, OpenCV, Isaac Gym, Docker, ClearML, Jira, Git, Linux

Software: Python, C++, C, TypeScript, Java, HTML/CSS

PUBLICATIONS

Artur Kuramshin, Ozgur Aslan, Cyrus Neary, Glen Berseth. "Task Robustness via Re-Labeling Vision-Action Robot Data." Workshop on Making Sense of Data in Robotics: Composition, Curation, and Interpretability at Scale, CoRL 2025. [[project page](#)]

Yoshikawa, N., Skreta, M., Darvish, K. et al. Large Language Models for Chemistry Robotics, Auton Robot (2023). <https://doi.org/10.1007/s10514-023-10136-2>. [[project page](#)]

EXPERIENCE

Junior DataOps Engineer, Sanctuary AI

March 2024 - Sept 2024

- Develop and maintain pipelines for capturing and cleaning robotic teleoperation data in both simulation and real environments for downstream machine learning model training.
- Improve automatic ML training pipelines by reducing setup time overhead by 50%.
- Created better observability over ML training pipelines with Prometheus instrumentation.

Software Co-op Machine Learning, Sanctuary AI

Summer 2022, Summer + Fall 2023

- Designed and developed a modular computer-vision data processing pipeline for generating pseudo ground truth information for SLAM deployed on *ClearML*.
- Developed and deployed a semi-automated, web-based 6D object pose annotation tool using *AngularJS* and *python*.
- Developed an end-to-end pipeline for generating optimization-based dexterous grasping of objects.
- Set up massively parallel experiments in *Isaac Gym* to evaluate the robustness of object grasps.

Robotics Research Intern, Robot Vision and Learning Lab

Summer 2021, Spring 2023

- Optimised the constrained motion planning procedure of OMPL with a Franka Emika Panda arm and improved planning success rate by ~20%.
- Conducted large-scale experiments and analysed resulting data of constrained motion planning performance of a 8 DoF vs 7 DoF robotic arm.
- Developed the ROS infrastructure, Bayesian Optimization for waypoint assignment, *Gazebo* simulation and a web interface for real-time 2D Gaussian Process visualisation.

EDUCATION

Mila & University of Montréal

Sept 2024 - **Present**

Master of Science in Computer Science (Artificial Intelligence and Robotics)

- **Supervisor:** Prof. Glen Berseth, co-director of the Robotics and Embodied AI Lab, Core Mila Member, CIFAR AI Chair.

University of Toronto - St. George Campus

Sept 2018 - May 2023

Honours Bachelor of Science in Computer Science, CGPA: 3.70

- **Activities:** Member of the University College Sustainability Committee.
- **Awards:** Ted Mossman Scholarship