

# Nico Schiavone

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## EDUCATION

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### University of Toronto, Department of Computer Science

Sept 2024 – Jan 2026

*M.Sc. Computer Science*

*Toronto, ON*

4.0/4.0 cGPA; Vector Institute Affiliate; Supervisors: Dr. Sheila McIlraith, Dr. Eldan Cohen

### University of Alberta, Department of Electrical & Computer Eng.

Sept 2019 – May 2024

*B.Sc. Engineering Physics with a Mathematics Minor; 4.0/4.0 cGPA*

*Edmonton, AB*

**Frameworks:** Python, Java, PostgreSQL, JavaScript, TypeScript, React.js, HTML5, Abaqus, Git, GCP, PyTorch

**Awards:** NSERC Undergraduate Research Award x 3, Dean's Research Award, Most Outstanding ECE Research Award.

## EXPERIENCE

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### Microsoft

June 2025 - Aug 2025

*Software Engineering Intern*

*Redmond, WA*

- Business & Industry Copilot team - incoming Summer 2025

### Vector Institute & University of Toronto

Sept 2024 - Present

*Graduate Student Researcher*

*Toronto, ON*

- Research in generalist agents, cooperative AI, LLM agents and test-time scaling. 3 manuscripts in prep.

### University of Alberta

Jan 2023 – June 2024

*Machine Learning Researcher*

*Remote*

- Designed an efficient **computer vision** algorithm in Python, utilizing a novel active learning algorithm that rivals state-of-the-art models while using 80% less annotation data, resulting in a **first author** conference paper, published at IEEE CAI 2024 and selected for **oral presentation** (top ~5% of accepted papers). ([GitHub](#))
- Engineered algorithms using **reinforcement learning** and **NLP** with **large pretrained models** for data efficient classification based on adaptive image synthesis, resulting in another **first author** manuscript. ([GitHub](#))

### TELUS

Jan 2023 – Aug 2023

*Software Engineer Intern*

*Remote*

- Spearheaded the development of a **full stack** Python XML scripting tool for a 20+ person team to automatically correct errors between sets of files, reducing the time spent per file by 95%.
- Developed a **full stack** document extraction tool, decreasing time needed by 90+% for teams of 10+ people.

### TRIUMF

May 2022 – Aug 2022

*Software Research & Development Intern*

*Vancouver, BC*

- Independently operated and maintained an entire **DAQ gantry** and laser test facility for the Hyper-K group.

## PROJECTS

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**UNI-Scraper** ([GitHub](#)) ([Demo](#)): Web scraping tool using Scrapy and Playwright in Python for easy viewing of the entire catalogue of UNIQLO. Front-end built for dynamic CSV display and filtering, including per-column search. Stack includes Python, Django, Supabase, PostgreSQL, TypeScript, and React.js.

**Huginn - Autonomous Retrieval Drone** ([GitHub](#)): Self-guided custom drone using computer vision for object detection, real-time classification, and a novel magnetic interface for object pickup. Made in Python using PyTorch, Mavlink, and ROS, with a front-end in JavaScript with Bootstrap4.

## PUBLICATIONS

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N. Schiavone, X. Li (2024). *Reinforcement Learning with Generative Models for Compact Support Sets* ([link](#))

N. Schiavone\*, J. Wang\*, S. Li, R. Zemp, X. Li (2024). *MyriadAL: Active Few Shot Learning for Histopathology*. [IEEE CAI 2024, **Oral Presentation**, ([link](#))]