

ROHAN CALUM NUTTALL

4707 Lansdowne Drive, Edmonton, AB | (604) 445-9337 | rohan.nuttall1@gmail.com | <https://rohancalum.github.io/>

EDUCATION

University of Alberta

Master of Science, Computer Science (Jan 2020 – Present)

University of British Columbia

Bachelor of Science, Honours Physics with Distinction, GPA: 3.85/4.33 (2014 – 2018)

EXPERIENCE

University of Alberta

Graduate Teaching / Research Assistant (Sept 2020 – Present)

- Research on calibrated uncertainty estimation for human-in-the-loop reinforcement learning (RL).
- Designed questions for exams, hosted office hours for 3 introductory computer science courses.

Kindred Systems

AI Research Intern (Oct 2019 – Dec 2019)

- Ran simulations to answer complex questions about real-world RL deployments.
- Implemented Google's UNREAL architecture for RL algorithms on a challenging 3D task.

University Sustainability Initiative, UBC

Urban Data Scientist (Jun 2018 – Sept 2019)

- Initiated & led a 15-person working group reporting to Chief Data Officer's to write inaugural open data policy.
- Designed and launched a DKAN-based open data platform for sustainability data.
- Implemented system for improving speed of manual data process from building automation systems by 97%.
- Published research papers using machine learning to predict climate change impacts on buildings with 92% accuracy.

TRIUMF (Accelerator Division)

Scientific Computing Analyst (May 2016 – May 2017)

- Optimized radioactive isotope production using FORTRAN Monte Carlo codes.
- Rewrote components of data analysis pipeline from Python to C++ reducing analysis time by nearly 30%.

Global Shapers Community, World Economic Forum

Vice-Curator – Vancouver Hub (Jun 2015 – Jun 2017)

- Led the first ever Canada-wide partnership & published white paper on future of STEM education.
- Led an event that attracted +200 people with insights presented to 5,000 people in Davos.
- Revived hub to nearly 20 members from previous years of inactivity.
- Wrote content for the Hub's first podcast, "Shape the Conversation" (available on Spotify).

PROJECTS

- **Climate Career Portal (Website):** partnered with a leading non-profit to map oil and gas jobs to renewables. I designed the platform, hired two developers, conducted user interviews, developed the core skills matching algorithm, built a jobs board with 100s of listings and managed the entire project end-to-end. (Python, Typescript)
- **Incident Energy Inc. (Company):** founder & full-stack developer of an automated maintenance reporting platform for one of the largest solar installation companies in Canada. (Django, HTML, Postgres, Heroku)
- **Through My Eyes:** directed acclaimed documentary film on youth homelessness, commissioned by the City of Edmonton.

AWARDS & ACTIVITIES

- **UBC Innovation Scholar (2019):** \$2,500 to research student startup success stories.
- **Arthur Crooker Prize for Experimental Physics (2018):** awarded to top experimental physics student.
- **Canadian Science Policy Conference (2018):** panelist, "Lessons learned in building a national vision for STEM education".
- **TD Scholarship for Community Leadership (2014):** one of 20 from 5,000 applicants for 2nd largest scholarship in Canada.
- **Rotary Club of Edmonton (2014):** 1st place in speech contest.

ADDITIONAL INFORMATION

- Languages: Python, SQL, Bash, Matlab, JavaScript (some), C++ (some)