

# Kenny Moc

Edmonton AB

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## EDUCATION

BSc (Hons) in Mathematical Physics, September 2021 - Present – UNIVERSITY OF ALBERTA

Edmonton, AB, CA

International Baccalaureate Diploma, July 2021 – Ross Sheppard High School, Edmonton, AB, CA

Alberta High School Diploma, April 2021 – Ross Sheppard High School, Edmonton, AB, CA

## PROFESSIONAL EXPERIENCE

Research Assistant | ATLAS Experiment Collaborator, Department of Physics, **UAlberta & CERN**,  
March 2022 – September 2022.

Research Assistant, Department of Computing Science, **UAlberta**, July 2021 – August 2021

## RESEARCH EXPERIENCE

- VISUAL EXPLANATION OF EVIDENCE IN ADDITIVE CLASSIFIERS (Machine Learning),  
Edmonton, UAlberta
- QUARK AND GLUON TAGGED DIJET ANALYSIS (Computational HEP), Edmonton, UAlberta

## RELEVANT COURSEWORK

University of Alberta

- MATH 117 - Honors Calculus I - Real Analysis
- MATH 118 - Honors Calculus II - Real Analysis + Point Set Topology
- MATH 127 - Honors Linear Algebra I
- MATH 227 - Honors Linear Algebra II
- PHYS 144 - Newtonian Mechanics and Relativity
- PHYS 146 - Fluids and Waves

## **PERSONAL PROJECTS**

- GRAVITATIONAL WAVE DETECTION USING NEURAL NETWORKS – developing a neural network to detect simulated binary black hole collisions from interferometer data
- PHYSICS SIMULATIONS – created a web-based physics engine to model basic Newtonian mechanics

## **HONORS / AWARDS**

NSERC USRA, 2022

International Baccalaureate Diploma Scholarship, 2021

Department of Mathematical Statistical Sciences Academic Excellence Scholarship, 2021

Edmonton Public School Board - Division Math, Science, and Technologies Award, 2021

First place in Alberta on Iverson Computing Science Exam (Group Section), 2021

Top 15 in Canada (12/394) in CanHack Powered by RBC, cybersecurity competition, 2021

Second place in Edmonton in APEGA's Science Olympics Competition, 2019

