Kaleb Ruscitti

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Education:

University of Waterloo

Candidate for a Bachelor of Mathematical Physics, minor in Pure Mathematics

Expected Graduation: April 2021, Overall Average: 84%

Employment History:

Institute for Quantum Computing
Undergraduate Research Assistant under Dr. Rajibul Islam, Jan.-Apr. 2018

Research Interests:

Quantum Information and Computation, application of Geometry and Algebra to Theoretical Physics.

Projects:

Digital Holographic Beam-shaping for Ion Addressing

QITI Group at Institute for Quantum Computing

- Implemented a scheme for robust, in-situ, quick and fully programmable laser beam-shaping and optical aberration correction.
- Developed and documented a powerful software package to save future lab members time and effort.

Talks:

"Adaptive Optics for Ion-Addressing in an Ion Trap Quantum Simulator" - PhUnC 2018, Western University.

Other Relevant Skills:

Experienced in computer programming in Python and C++.

Experienced with symbolic and numeric mathematical computations.

Proficient in French and Mandarin Chinese.