

Michael Zurel

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Academic CV: mzurel.github.io/files/cv.pdf

EDUCATION

- **PhD** University of British Columbia
Physics (Quantum information and computation)
Supervisors: Dr. Robert Raussendorf and Dr. William G. Unruh
Thesis: [Classical descriptions of quantum computations](#)
September, 2020 – August, 2024
- **MSc** University of British Columbia
Physics (Quantum information and computation)
Supervisor: Dr. Robert Raussendorf
Thesis: [Hidden variable models and classical simulation algorithms for quantum computation with magic states on qubits](#)
September, 2019 – October, 2020
- **BSc** University of British Columbia
Combined honours in Physics and Mathematics
Honours thesis: Contextuality and Simulating Quantum Computation with Magic States
September, 2014 – May, 2019

EXPERIENCE

- **NSERC Postdoctoral research fellow** Vancouver, Canada
Department of Mathematics, Simon Fraser University
For list of publications see [Google Scholar](#)
- **Research assistant** Vancouver, Canada
Department of Physics, University of British Columbia
September, 2018 – August, 2024
- **Teaching assistant** Vancouver, Canada
Department of Physics, University of British Columbia
Classes include: Quantum mechanics, Electricity & magnetism, Computational physics
September, 2019 – Present
- **Research assistant** St. John's, Canada
Department of Geography, Memorial University
May, 2017 – August, 2018
Data acquisition, database management, data analysis (primarily census and socio-economic data)
Creation of dynamic data visualizations

TECHNICAL SKILLS

- **Programming languages:** Python, Julia, R, SQL, Matlab
- **Technologies:** Linux, Latex, Git, AWS, MariaDB
- **Other skills:** Physics, mathematics, data analysis, computational modelling, simulation, optimization

AWARDS AND HONOURS

- NSERC Postdoctoral Fellowship (NSERC PDF) 2024–2026
- CGS - Michael Smith Foreign Study Supplement (NSERC CGS-MSFSS) 2023
- Alexander Graham Bell Canada Graduate Scholarship (NSERC CGS-D) 2021–2024
- UBC Four Year Doctoral Fellowship (4YF) 2021–2025

REFERENCES

- **Dr. Robert Raussendorf** robert.raussendorf@itp.uni-hannover.de
Alexander von Humboldt Professor, Leibniz University Hannover
Hannover, Germany
- **Dr. William G. Unruh** unruh@physics.ubc.ca
Professor, University of British Columbia
Vancouver, Canada
- **Dr. Mark Howard** mark.howard@universityofgalway.ie
Professor, University of Galway
Galway, Ireland
- **Dr. Nadish de Silva** nadish_de_silva@sfsu.ca
Assistant Professor, Simon Fraser University
Vancouver, Canada