

# Michael Zurel

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Academic CV: [mzurel.github.io/files/cv.pdf](https://mzurel.github.io/files/cv.pdf)

## EDUCATION

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

## EXPERIENCE

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- **Postdoctoral fellow** Vancouver, Canada  
Department of Mathematics, Simon Fraser University September, 2024 –
  - 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 September, 2019 – Present
  - Classes include: Quantum mechanics, Electricity & magnetism, Computational physics
- **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

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- **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

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- 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

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- **Dr. Robert Raussendorf** [robert.raussendorf@itp.uni-hannover.de](mailto:robert.raussendorf@itp.uni-hannover.de)  
Alexander von Humboldt Professor, Leibniz University Hannover Hannover, Germany
- **Dr. William G. Unruh** [unruh@physics.ubc.ca](mailto:unruh@physics.ubc.ca)  
Professor, University of British Columbia Vancouver, Canada
- **Dr. Stephen D. Bartlett** [stephen.bartlett@sydney.edu.au](mailto:stephen.bartlett@sydney.edu.au)  
Director, Sydney Nanoscience Hub, University of Sydney Sydney, Australia
- **Dr. Ernesto Galvão** [ernesto.galvao@inl.int](mailto:ernesto.galvao@inl.int)  
Research group leader, International Iberian Nanotechnology Institute Braga, Portugal