

ALEKSA VUJIĆIĆ

+1 (548) 384 1193 ◊ aleksa@vujicic.com ◊ [linkedin.com/in/aleksa-vujicic](https://www.linkedin.com/in/aleksa-vujicic) ◊ Waterloo, ON

SUMMARY

Recent PhD mathematician with experience in data modelling, software development, and university teaching. Strong background in analytical problem solving, statistical modelling, and software development, including Java, SQL, and Python. Experienced at communicating complex technical ideas to diverse audiences.

EXPERIENCE

Open Polytechnic

Data Modeller

2019 – 2020

Lower Hutt, New Zealand

- Developed predictive models for student success to help guide students toward effective learning strategies.
- Used SQL for querying databases and R for statistical analysis and data visualisation.

Catalyst IT

Developer

2013 – 2014

Wellington, New Zealand

- Developed backend web services using the Java Spring Framework, including a custom webform builder for business clients.

University of Waterloo

Course Instructor

2022, 2023

Waterloo, ON, Canada

- Delivered two undergraduate-level courses.
- Responsible for preparing lectures and assessments, running office hours, and handling student enquiries.

Victoria University of Wellington

University of Waterloo

Teaching Assistant

2015 – 2025

Wellington & Waterloo

- Responsible for marking assessments, proctoring exams, running tutorials and providing office hours.
- Supported students across a range of undergraduate mathematics courses with varying size and level.

EDUCATION

PhD Pure Mathematics, University of Waterloo

2020 – 2025

MSc Mathematics, Victoria University of Wellington

2018 – 2019

TECHNICAL STRENGTHS

Computer Languages Tools

Java, Python, Perl, R, GNU Octave, HTML, Javascript
Git, SQL, Latex, Jekyll

OTHER PROJECTS

Game Modding Development

2017 – 2019

- A personal project in Java which altered the core gameplay of Minecraft into a custom minigame format.
- Grew into a complex software project; planning was necessary so that individual components worked together smoothly.
- Primarily solo-developed; Git was used to manage history and to include contributions from others.
- Interfaced with existing modding APIs and libraries, though occasionally required decompiling and deobfuscating original source code.

Directed Reading Program

University of Waterloo

2025

Waterloo, ON, Canada

- Supervised students from underrepresented groups in a mathematical reading program.
- Responsible for designing a suitable project for students, and mentoring them throughout.