Aleksa Vujičić

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Education

University of Waterloo 2020 – 2025
Ph.D. Pure Mathematics *Waterloo ON, Canada*
- Thesis title: *Fourier Analysis of Local Fell Groups.*

Victoria University of Wellington 2018 – 2019
M.Sc. Mathematics (Distinction) *Wellington, New Zealand*
- Thesis title: *Characterisations of Pseudo-Amenability.*

Victoria University of Wellington 2013 – 2017
B.Sc. (First Class Hons, A+) Mathematics, Physics *Wellington, New Zealand*

Teaching Experience

University of Waterloo 2022, 2023
Course Instructor *Waterloo ON, Canada*
- Taught two undergraduate math courses: introductory linear algebra, and multivariable calculus.
- Tasks included preparing and delivering lectures, designing assessments and exams, running office hours, handling administrative tasks, and responding to student requests.

University of Waterloo 2023
University Mathematics Teaching Techniques *Waterloo ON, Canada*
- Course designed for lecturers teaching mathematics at university level.
- Covered course design, lecture preparation and delivery, assessment writing, and more.
- Also provided practical experience teaching with feedback in a classroom.

University of Waterloo 2023
CTE: New Instructor Foundations Program *Waterloo ON, Canada*
- A 3-day program which provided information to lecturers teaching a course for the first time.
- Information presented covered a broad range of topics, from designing course outlines to handling unexpected situations.

University of Waterloo 2022 – 2025
Teaching Assistant *Waterloo ON, Canada*
- 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.
- See below for a list of courses.

Victoria University of Wellington 2015 – 2019
Teaching Assistant *Wellington, New Zealand*
- 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.

Teaching & Teaching Assistant Roles

Teaching Roles at University of Waterloo

MATH237: Calculus 3 for Honours Mathematics *(Lecturer)* Fall 2023
MATH136: Linear Algebra 1 for Honours Mathematics *(Lecturer)* Spring 2022

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Assistant Roles at University of Waterloo

MATH115: Linear Algebra for Engineering	Fall 2025
MATH600: Introduction to Mathematical Software for Teachers (0.5 Units)	Fall 2025
MATH692: Reading, Writing and Discovering Proofs	Fall 2025
MATH640: Number Theory for Teachers	Spring 2025
Tutorial Centre	Spring 2025
MATH648: Foundations of Calculus II	Winter 2025
Tutorial Centre	Winter 2025
MATH685: Math and Peace for Teachers	Fall 2024
PMATH330: Introduction to Mathematical Logic	Fall 2024
Tutorial Centre	Spring 2024
MATH148: Calculus 2 (Advanced Level)	Winter 2024
Tutorial Centre	Winter 2024
MATH245: Linear Algebra 2 (Advanced Level)	Spring 2023
PMATH451/651: Measure and Integration (1.5 Units)	Winter 2023
PMATH810: Banach Algebras and Operator Theory (0.5 Units)	Winter 2023
MATH115: Linear Algebra for Engineering	Fall 2022
Tutorial Centre	Fall 2022
MATH135: Algebra for Honours Mathematics	Winter 2022
MATH235: Linear Algebra 2 for Honours Mathematics	Winter 2022

Assistant Roles at Victoria University of Wellington

While a complete list is unavailable, tutoring roles covered a range of undergraduate courses, including calculus for engineering students, and formal mathematical logic.

+ Additional Experience

University of Waterloo 2025
Directed Reading Program - Women in Math *Waterloo ON, Canada*
- Supervised students from underrepresented groups in a mathematical reading program.
- Responsible for designing a suitable project for the students, and mentoring them throughout.

University of Waterloo 2024 – 2025
Seminar Organiser *Waterloo ON, Canada*
- Organised the Harmonic Analysis Learning Seminar.
- Tasks included arranging speakers, and communicating regular announcements.

Victoria University of Wellington 2019
High School Outreach *Wellington, New Zealand*
- A weekly outreach initiative by the School of Mathematics and Statistics.
- Helped local high school students from diverse backgrounds prepare for the national mathematics exams (NCEA).

Publications

Journal Articles

[1] A. Vujičić, "Characterisations of pseudo-amenability," *Studia Mathematica*, vol. 262, no. 2, 2022. DOI: 10.4064/sm200704-20-1

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Preprints

[2] A. Vujičić, *The Fourier Algebra of Certain Compact Orbit Hypergroups*, 2026. arXiv: 2609.35740 [math.FA].

Theses

[3] A. Vujičić, "Fourier analysis of local Fell groups," Ph.D. dissertation, University of Waterloo, Oct. 2025. HDL: 10012/22593.

[4] A. Vujičić, "Characterisations of Pseudo-Amenability," M.S. thesis, Victoria University of Wellington, Jan. 2019. DOI: 10.26686/wgtn.17136611

See an up to date list here: aleksa.vujicic.com/publications.

Talks & Presentations

VUW Operator Algebras Seminar 2026
Title: The Fourier spine of Fell groups *Victoria University of Wellington, New Zealand*

Canadian Mathematical Society (CMS) - Summer Meeting 2025
Title: The Spine of Local Fell Groups *Université Laval, Quebec City, QC*

Analysis Seminar 2025
Title: The Spine of a Fourier Algebra *University of Waterloo, Waterloo, ON*

Ontario Graduate Mathematics Conference 2024
Title: Rajchman Algebras of Local Fields *University of Waterloo, Waterloo, ON*

VUW Operator Algebras Seminar 2024
Title: Amenability of the Central Fourier Algebra *Victoria University of Wellington, New Zealand*

Canadian Abstract Harmonic Analysis Symposium 2023
Title: Amenability conditions for certain group algebras *Université de Saint-Boniface, Winnipeg, MB*

Joint Pure Math/C&O Grad Colloquium 2022
Title: The Problem with Braid *University of Waterloo, Waterloo, ON*

Analysis Seminar 2022
Title: Characterisations of Pseudo-Amenability *University of Waterloo, Waterloo, ON*

Awards & Scholarships

UW Graduate Scholarship 2020–2024
› University of Waterloo

International Doctoral Student Award 2020–2024
› University of Waterloo

Victoria University Medal 2018
› Victoria University of Wellington

Victoria Master's Scholarship 2018
› Victoria University of Wellington

VUW Graduate Award 2017
› Victoria University of Wellington

Victoria Excellence Scholarship 2013 – 2015
› Victoria University of Wellington