

Faisal Romshoo

Department of Pure Mathematics, University of Waterloo

EDUCATION

University of Waterloo <i>Ph.D. in Pure Mathematics</i>	Waterloo, Canada 09/2024 – Present
– <i>Supervisor:</i> Spiro Karigiannis	
University of Waterloo <i>M.Math in Pure Mathematics</i>	Waterloo, Canada 09/2023 – 08/2024
– <i>Thesis:</i> “Perspectives on the moduli space of torsion-free G_2 -structures”	
– <i>Supervisor:</i> Spiro Karigiannis	
University of Waterloo <i>B.Math in Pure Mathematics</i>	Waterloo, Canada 01/2019 – 04/2023
– <i>Honours:</i> Major GPA: 91, Dean’s Honours, Co-op Program	
École Polytechnique Fédérale de Lausanne (EPFL) <i>Exchange Semester</i>	Lausanne, Switzerland 02/2022 – 07/2022

PUBLICATIONS

Romshoo, F. Some Results on Calibrated Submanifolds in Euclidean Space of Cohomogeneity One and Two. *Mathematical Physics, Analysis and Geometry*, **29** (2026). [DOI: [10.1007/s11040-026-09552-4](https://doi.org/10.1007/s11040-026-09552-4), arXiv:2508.01039]

AWARDS

International Doctoral Student Award (25,700 CAD)	2024 – Present
Pure Math Graduate Entrance Scholarship (9,158 CAD)	2024 – Present
Graduate Research Studentship (9,585 CAD)	2024 – Present
Women in Mathematics Mentorship Award (1,000 CAD)	2025
Pure Math Grad Award (20,951 CAD)	2023 – 2024
International Master’s Award of Excellence (5,000 CAD)	2023
Mathematics Undergraduate Research Award (MURA) (12,000 CAD)	2021, 2022
David Johnston International Experience Award (2,500 CAD)	2022
President Scholarship (2,000 CAD)	2019

TEACHING & SUPERVISION

Undergraduate Mentorship

Women in Math Directed Reading Program <i>Project: The other cross product</i>	University of Waterloo 2025
– <i>Mentees:</i> Khushi Adukia, Chandni Wadhwa, and Margaret Puzio	

Teaching Assistant (University of Waterloo)

– MATH 119 (Calculus 2 for Engineering)	Winter 2026
– PMATH 365 (Differential Geometry)	Winter 2024, Winter 2025, Winter 2026

- **PMATH 465/665** (Smooth Manifolds) Fall 2024, Fall 2025
- **MATH 227** (Calculus 3 for Honors Physics) Fall 2025
- **MATH 127** (Calculus for Sciences) Spring 2025
- **MATH 235** (Linear Algebra 2) Spring 2025
- **MATH 146** (Advanced Linear Algebra) Winter 2025
- **MATH 237** (Calculus 3) Spring 2024
- **MATH 115** (Linear Algebra for Engineering) Fall 2023

Undergraduate Marker & Tutor

- **Mathematics Tutorial Center Tutor** 2023, 2024
- **MATH 228 Marker** (Diff. Equations for Physics and Chemistry) Fall 2021
- **MATH 136 Marker** (Linear Algebra) Winter 2021
- **Athletics and Recreation Tutor** 2020, 2021

WORK EXPERIENCE

Department of Pure Mathematics, University of Waterloo Waterloo, Canada
Undergraduate Research Assistant 09/2022 – 12/2022

- *Riemann-Roch for Quantum Graphs*, supervised by Prof. Matthew Satriano.

Fields Institute & Krembil Research Institute Toronto, Canada
Research Student 07/2022 – 08/2022

- *Diffusion in Thin Pipes and Surfaces*, supervised by Dr. Maurizio De Pitta.

Department of Pure Mathematics, University of Waterloo Waterloo, Canada
Undergraduate Research Assistant 05/2021 – 08/2021

- *Born Metrics on Hyperelliptic Surfaces*, supervised by Prof. Ruxandra Moraru.

Wind River Systems Ottawa, Canada
Software Developer 09/2020 – 12/2020

- Worked at the Certification Office, creating tools to ensure industrial products met rigorous industry standards.

Auvik Networks Waterloo, Canada
Software Developer 01/2020 – 04/2020

- Worked with the Data Device Discovery team on the Collector Control project using Go microservices communicating through Apache Kafka, deployed to AWS using Docker and Kubernetes.

CONFERENCES AND WORKSHOPS

Séminaire de Mathématiques Supérieures: Flows and Variational Methods... 06/2024
Special Riemannian Metrics in Dimensions 6,7,8 04/2024