

### Education

- 09/24- **Ph. D. student**, *Department of Pure Mathematics, University of Waterloo*  
*Supervisor: Spiro Karigiannis*
- 09/23–08/24 **M.Math in Pure Mathematics**, *University of Waterloo*  
*Thesis: "Perspectives on the moduli space of torsion-free  $G_2$ -structures"*  
*Supervisor: Spiro Karigiannis*
- 01/19–04/23 **B.Math in Pure Mathematics**, *University of Waterloo*  
*Major GPA: 91, Dean's Honours, Co-op Program*
- 02/22–07/22 **Exchange semester**, *École polytechnique fédérale de Lausanne (EPFL), Switzerland*

### Publications

#### Preprints

- 2025 **Faisal Romshoo**, *Some results on calibrated submanifolds in Euclidean space of cohomogeneity one and two*, [arxiv:2508.01039](https://arxiv.org/abs/2508.01039)

### Conferences and Workshops Attended

- June '24 **Séminaire de Mathématiques Supérieures 2024: Flows and Variational Methods in Riemannian and Complex Geometry: Classical and Modern Methods**, *Centre de Recherches Mathématiques, Montreal, Canada*
- April '24 **Special Riemannian Metrics in Dimensions 6,7,8**, *Centre de Recherches Mathématiques, Montreal, Canada*

### Awards

- 2024- **International Doctoral Student Award**, *University of Waterloo*  
*Monetary value: 20560 CAD*
- 2024- **Pure Math Graduate Entrance Scholarship**, *University of Waterloo*  
*Monetary value: 9158 CAD*
- 2024- **Graduate Research Studentship**, *University of Waterloo*  
*Monetary value: 9585 CAD*
- 2023- **Pure Math Grad Award**, *University of Waterloo*  
*Monetary value: 18615 CAD*
- 2023 **International Master's Award of Excellence**, *University of Waterloo*  
*Monetary value: 5000 CAD*

- 2022, 2021 **Mathematics Undergraduate Research Award (MURA)**, *University of Waterloo*  
*Monetary value: 12000 CAD*
- 2022 **David Johnston International Experience Award**, *University of Waterloo*  
*Monetary value: 2500 CAD*
- 2019 **President Scholarship**, *University of Waterloo*  
*Monetary value: 2000 CAD*

## Teaching

### Teaching Assistant (University of Waterloo)

- Fall '25 **PMATH 465/665**
- Spring '25 **MATH 227 (Calculus 3 for Honors Physics)**
- Spring '25 **MATH 127 (Calculus for Sciences)**
- Spring '25 **MATH 235 (Linear Algebra 2)**
- Winter '25 **PMATH 365**
- Winter '25 **MATH 146 (Advanced Linear Algebra)**
- Fall '24 **PMATH 465/665 (Smooth Manifolds)**
- Spring '24 **MATH 237 (Calculus 3)**
- Winter '24 **PMATH 365 (Differential Geometry)**
- Fall '23 **MATH 115 (Linear Algebra for Engineering)**

### Undergraduate Marker (University of Waterloo)

- Fall '21 **MATH 228 (Differential Equations for Physics and Chemistry)**
- Winter '21 **MATH 136 (Linear Algebra)**

### Tutoring (University of Waterloo)

- 2023, 2024 **Mathematics Tutorial Center**
- 2020, 2021 **University of Waterloo Athletics and Recreation**

## Work Experience

- 09/22–12/22 **Undergraduate Research Assistant**, *Department of Pure Mathematics, University of Waterloo*  
*Riemann-Roch for Quantum Graphs, supervised by Prof. Matthew Satriano*
- 07/22–08/22 **Research Student**, *Fields Institute, Toronto and Krembil Research Institute, Toronto*  
*(Fields Undergraduate Summer Research Program)*  
*Diffusion in Thin Pipes and Surfaces, supervised by Dr. Maurizio De Pitta*
- 05/21–08/21 **Undergraduate Research Assistant**, *Department of Pure Mathematics, University of Waterloo*  
*Born Metrics on Hyperelliptic Surfaces, supervised by Prof. Ruxandra Moraru*
- 09/20–12/20 **Software Developer**, *WIND RIVER SYSTEMS, Ottawa, Canada*
- 01/20–04/20 **Software Developer**, *AUVIK NETWORKS, Waterloo, Canada*