

## Caleb Suan Kai Wen (孙凯文)

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CONTACT INFORMATION	<i>Email:</i> <a href="mailto:calebkw@math.ubc.ca">calebkw@math.ubc.ca</a> <i>Personal Website:</i> <a href="https://calebsuan.github.io">https://calebsuan.github.io</a>
RESEARCH INTERESTS	Geometric analysis, geometric flows, manifolds with special holonomy.
EDUCATION	<b>The University of British Columbia</b> , Vancouver, BC, Canada <b>Ph.D.</b> , Mathematics Sep 2021 - Present <ul style="list-style-type: none"><li>• Supervisor: <a href="#">Sébastien Picard</a></li></ul> <b>University of Waterloo</b> , Waterloo, ON, Canada <b>M.Math</b> , Pure Mathematics, Jan 2020 - Dec 2020 <ul style="list-style-type: none"><li>• Thesis: <i>Differential Operators on Manifolds with <math>G_2</math>-Structure</i></li><li>• Supervisor: <a href="#">Spiro Karigiannis</a></li></ul> <b>B.Math</b> , Pure Mathematics/ Combinatorics and Optimization, Sep 2013 - Dec 2019 <ul style="list-style-type: none"><li>• Honors, Co-operative Program</li><li>• With Distinction</li></ul>
PUBLICATIONS	[1] S. Picard and C. Suan, Flows of $G_2$ Structures associated to Calabi–Yau Manifolds, to appear in <i>Mathematical Research Letters</i> , <a href="#">arXiv:2209.03411</a>
INVITED TALKS	<ul style="list-style-type: none"><li>• Flows of <math>G_2</math> Structures associated to Calabi–Yau Manifolds, <a href="#">BIRS Workshop: Spinorial and Octonionic Aspects of <math>G_2</math> and <math>\text{Spin}(7)</math> Geometry</a>, May 2023</li></ul>
TEACHING	<b>The University of British Columbia</b> , Vancouver, BC, Canada <i>Teaching Assistant</i> Sep 2021 - Present <ul style="list-style-type: none"><li>• MATH 220: Mathematical Proof - 2022 Winter Term II - Marking</li><li>• MATH 190: Calculus Survey - 2022 Winter Term I - Workshops</li><li>• MATH 421: Real Analysis II - 2021 Winter Term II - Marking</li><li>• MATH 223: Linear Algebra - 2021 Winter Term I - Marking</li></ul> <b>University of Waterloo</b> , Waterloo, ON, Canada <i>Teaching Assistant</i> Jan 2020 - Dec 2020 <ul style="list-style-type: none"><li>• PMATH 365: Differential Geometry - Winter 2020 - Marking</li><li>• MATH 136: Linear Algebra 1 for Honours Mathematics - Winter 2020 - Marking</li><li>• PMATH 352: Complex Analysis - Spring 2020 - Marking</li><li>• PMATH 465: Geometry of Manifolds - Fall 2020 - Marking</li><li>• MATH 147: Calculus 1 (Advanced Level) - Fall 2020 - Marking</li></ul> <i>Undergraduate Tutor</i> Sep 2016 - Dec 2016 <ul style="list-style-type: none"><li>• MATH 137: Calculus 1 for Honours Mathematics - Fall 2016</li></ul>

OTHER RESEARCH **University of Waterloo**, Waterloo, ON, Canada

*NSERC Undergraduate Research Assistant*

May 2019 - Aug 2019

- Project: *The Almost Invariant Subspace Problem*
- Supervisor: [Laurent Marcoux](#)

*NSERC Undergraduate Research Assistant*

May 2018 - Aug 2018

- Project: *Vortex Solutions on Riemann Surfaces from Hyperbolic Tessellations*
- Supervisor: [Benoit Charbonneau](#)

AWARDS AND  
SCHOLARSHIPS

- Four Year Doctoral Fellowship 2021  
The University of British Columbia
- President's Academic Excellence Award 2021  
The University of British Columbia
- NSERC Alexander Graham Bell Canada Graduate Scholarship - Masters 2021  
University of Waterloo
- President's Graduate Scholarship 2021  
University of Waterloo
- Outstanding Teaching Assistant Award 2020  
University of Waterloo
- NSERC Undergraduate Student Research Award 2020  
University of Waterloo
- NSERC Undergraduate Student Research Award 2019  
University of Waterloo
- University of Waterloo 50th Anniversary Scholarship 2018  
University of Waterloo
- Faculty of Mathematics Scholarship 2014  
University of Waterloo
- University of Waterloo President's Scholarship 2014  
University of Waterloo