

Caleb Suan Kai Wen (孙凯文)

CONTACT INFORMATION	<ul style="list-style-type: none">• Email: calebkw@math.ubc.ca• Personal Website: https://calebsuan.github.io
RESEARCH INTERESTS	Geometric analysis; Geometric flows (G_2 Laplacian Flow/ Coflow, Anomaly Flow); Manifolds with special holonomy ($SU(3)$, G_2 , $Spin(7)$).
EDUCATION	<p>The University of British Columbia, Vancouver, BC, Canada</p> <p>Ph.D, Mathematics Sep 2021 - Present</p> <ul style="list-style-type: none">• Supervisor: Sébastien Picard <p>University of Waterloo, Waterloo, ON, Canada</p> <p>MMath, Pure Mathematics, Jan 2020 - Dec 2020</p> <ul style="list-style-type: none">• Thesis: <i>Differential Operators on Manifolds with G_2-Structure</i>• Supervisor: Spiro Karigiannis <p>BMath, Pure Mathematics/ Combinatorics and Optimization, Sep 2013 - Dec 2019</p> <ul style="list-style-type: none">• Honors, Co-operative Program• With Distinction
PREPRINTS AND PUBLICATIONS	<p>[1] B. Friedman, S. Picard, and C. Suan; “<i>Gromov–Hausdorff Continuity of Non-Kähler Calabi–Yau Conifold Transitions</i>”, arXiv:2404.11840</p> <p>[2] S. Picard and C. Suan; “<i>Flows of G_2 Structures associated to Calabi–Yau Manifolds</i>”; to appear in <i>Mathematical Resesarch Letters</i>, arXiv:2209.03411</p>
INVITED TALKS	<ul style="list-style-type: none">• CRM Workshop: Special Riemannian Geometries in Dimensions 6, 7, 8 (Apr 2024) “<i>Gromov–Hausdorff Continuity of Non-Kähler Calabi–Yau 3-Folds</i>”• UC – Irvine Generalized Ricci Flow Learning Seminar (Dec 2023) “<i>Flows of G_2 Structures associated to Calabi–Yau Manifolds</i>”• BIRS Workshop: Spinorial and Octonionic Aspects of G_2 and $Spin(7)$ Geometry (May 2023) “<i>Flows of G_2 Structures associated to Calabi–Yau Manifolds</i>”
TEACHING	<p>The University of British Columbia, Vancouver, BC, Canada</p> <p><i>Teaching Assistant</i> Sep 2021 - Present</p> <ul style="list-style-type: none">• MATH 264: Vector Calculus for Electrical Engineering (2023 Winter Term II)• MATH 180: Differential Calculus with Applications (2023 Winter Term I)• MATH 220: Mathematical Proof (2022 Winter Term II)• MATH 190: Calculus Survey (2022 Winter Term I)• MATH 421: Real Analysis II (2021 Winter Term II)• MATH 223: Linear Algebra (2021 Winter Term I)

University of Waterloo, Waterloo, ON, Canada

Teaching Assistant

Jan 2020 - Dec 2020

- PMATH 365: Differential Geometry (Winter 2020)
- MATH 136: Linear Algebra 1 for Honours Mathematics (Winter 2020)
- PMATH 352: Complex Analysis (Spring 2020)
- PMATH 465: Geometry of Manifolds (Fall 2020)
- MATH 147: Calculus 1 (Advanced Level) (Fall 2020)

Undergraduate Tutor

Sep 2016 - Dec 2016

- MATH 137: Calculus 1 for Honours Mathematics (Fall 2016)

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