## Caleb Suan Kai Wen (孙凯文)

Contact Information	<ul> <li>Email: calebkw@math.ubc.ca</li> <li>Personal Website: https://calebsuan.github.io</li> </ul>		
Research Interests	Geometric analysis; Geometric flows ( $G_2$ Laplacian Flow/ Coflow, Anomaly Flow); Manifolds with special holonomy (SU(3), $G_2$ , Spin(7)); Conifold Transitions; Hull–Strominger system.		
Employment	The Chinese University of Hong Kong, Shatin, NT, Hong Kong SAR		
	Postdoctoral Researcher	Starting Aug 2025	
Education	The University of British Columbia, Vancouver, BC, Canada		
	PhD, Mathematics	Sep 2021 - Apr 2025	
	<ul> <li>Thesis: Deformations of Special Structures in Dimensions 6 and 7</li> <li>Supervisor: Sébastien Picard</li> </ul>		
	University of Waterloo, Waterloo, ON, Canada		
	MMath, Pure Mathematics,	Jan 2020 - Dec 2020	
	<ul> <li>Thesis: Differential Operators on Manifolds with G<sub>2</sub>-Structure</li> <li>Supervisor: Spiro Karigiannis</li> </ul>		
	BMath, Pure Mathematics/ Combinatorics and Optimization,	Sep 2013 - Dec 2019	
	Honors, Co-operative Program, with Distinction, Dean's Honours I	List	
PREPRINTS AND PUBLICATIONS	<ul> <li>[1] Caleb Suan</li> <li>"Anomaly Flow: Shi-Type Estimates and Long-time Existence", preprint, arXiv:2408.15514</li> </ul>		
	[2] Henrique N. Sá Earp, Julieth Saavedra, and Caleb Suan "Laplacian Coflows of G <sub>2</sub> -Structures on Contact Calabi–Yau 7-Manifolds", to appear in Mathematische Zeitschrift, arXiv:2406.15254		
	[3] Benjamin Friedman, Sébastien Picard, and Caleb Suan "Gromov-Hausdorff Continuity of Non-Kähler Calabi-Yau Conifold Transitions", preprint, arXiv:2404.11840		
	<ul> <li>[4] Sébastien Picard and Caleb Suan</li> <li>"Flows of G<sub>2</sub> Structures associated to Calabi–Yau Manifolds", Mathematical Research Letters 31 (2024) No. 6, 1837-1877, arX</li> </ul>	ïv:2209.03411	
INVITED TALKS	• Mathematical Congress of the Americas (Jul 2025)		
	"Conifold Transitions and the Anomaly Flow"		
	University of British Columbia Mathematics Colloquium (Mar 2025)		
	"Deformations of Special Structures in Dimensions 6 and 7"		
	Universität Hamburg Differential Geometry Research Seminar (Jan 2025)		
	"Conifold Transitions and the Anomaly Flow"		
	Rutgers – Newark Mathematics Colloquium (Nov 2024)		
	"Long-time Existence of the Anomaly Flow"		

	• CRM Workshop: Special Riemannian Geometries in Dimensions 6, 7, 8 (Apr 2024)			
	"Gromov–Hausdorff Continuity of Non-Kähler Calabi–Yau 3-Folds"			
	• UC – Irvine Generalized Ricci Flow Learning Seminar (Dec 2023)			
	"Flows of $G_2$ Structures associated to Calabi–Yau Manifolds"			
	• BIRS Workshop: Spinorial and Octonionic Aspects of $G_2$ and S	Spin(7) Geometry (May 2023)		
	"Flows of $G_2$ Structures associated to Calabi–Yau Manifed	olds"		
TEACHING	The University of British Columbia, Vancouver, BC, Canada			
	Small Class/ Workshop Instructor	Sep 2021 - Present		
	<ul> <li>MATH 100: Differential Calculus with Applications to Physical Sciences and Engineering (2024 Winter Term II)</li> <li>MATH 180: Differential Calculus with Physical Applications (2024 Winter Term I)</li> </ul>			
	<ul> <li>MATH 180: Differential Calculus with Physical Application</li> <li>MATH 190: Calculus Survey (2022 Winter Term I)</li> </ul>	as (2023 Winter Term I)		
	Teaching Assistant	Sep 2021 - Present		
	<ul> <li>MATH 264: Vector Calculus for Electrical Engineering (202</li> <li>MATH 220: Mathematical Proof (2022 Winter Term II)</li> <li>MATH 421: Real Analysis II (2021 Winter Term II)</li> <li>MATH 223: Linear Algebra (2021 Winter Term I)</li> </ul>	23 Winter Term II)		
	University of Waterloo, Waterloo, ON, Canada			
	Teaching Assistant	Jan 2020 - Dec 2020		
	<ul> <li>PMATH 465: Geometry of Manifolds (Fall 2020)</li> <li>MATH 147: Calculus 1 (Advanced Level) (Fall 2020)</li> <li>PMATH 352: Complex Analysis (Spring 2020)</li> <li>PMATH 365: Differential Geometry (Winter 2020)</li> <li>MATH 136: Linear Algebra 1 for Honours Mathematics (W</li> </ul>	inter 2020)		
	Undergraduate Tutor	Sep 2016 - Dec 2016		
	• MATH 137: Calculus 1 for Honours Mathematics (Fall 2016	6)		
Other Research	University of Waterloo, Waterloo, ON, Canada			
	NSERC Undergraduate Research Assistant	May 2019 - Aug 2019		
	<ul> <li>Project: <i>The Almost Invariant Subspace Problem</i></li> <li>Supervisor: Laurent Marcoux</li> </ul>			
	NSERC Undergraduate Research Assistant	May 2018 - Aug 2018		
	<ul> <li>Project: Vortex Solutions on Riemann Surfaces from Hyperb</li> <li>Supervisor: Benoit Charbonneau</li> </ul>	olic Tessellations		
Awards and Scholarships	Stanley M. Grant Scholarship in Mathematics	2024		
	University of British Columbia			
	Four Year Doctoral Fellowship	2021		
	University of British Columbia			

President's Academic Excellence Award	2021
University of British Columbia	
NSERC Alexander Graham Bell Canada Graduate Scholarship	<b>– Masters</b> 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	
University of British Columbia Differential Geometry Learning	Seminar
Organizer	Sep 2024 - Apr 2025
Co-organizer	Jan 2024 - Aug 2024
Journal Referee	

Mathematische Zeitschrift

SERVICE