BENJAMIN B. BRUCE

benjamin.bruce@trincoll.edu
Personal website

EDUCATION	University of Wisconsin-Madison Ph.D. (mathematics) M.A. (mathematics)	Sep. 2016 – May 2021
	St. Olaf College B.A. (mathematics, philosophy)	Sep. 2012 – May 2016
APPOINTMENTS	Assistant Professor of Mathematics, Trinity College	Jul. 2025 – present
	Honorary Fellow, University of Wisconsin-Madison	Oct. 2024 – Jun. 2025
	Postdoctoral Fellow, University of British Columbia	Jul. 2021 – Jun. 2024
	Graduate Research and Teaching Assistant, University of Wisconsin-Madison	Sep. 2016 – May 2021
AWARDS & RECOGNITIONS	Outstanding Teaching by a Postdoctoral Fellow (UBC Math. Dept.)	May 2023
	Excellence in Graduate Research (UW-Madison Math. Dept.)	Nov. 2020

PUBLICATIONS & PREPRINTS

Keller properties for integer tilings (coauthored with I. Łaba), Electron. J. Combin., 31 (2024), no. 4, 26 pages.

Two-point patterns determined by curves (coauthored with M. Pramanik), arXiv:2304.02882 [math.CA] (2023), 38 pages.

Local extension estimates for the hyperbolic hyperboloid in three dimensions, J. Fourier Anal. Appl., 28 (2022), 32 pages.

Global restriction estimates for elliptic hyperboloids, Math. Z., 301 (2022), no. 2, 2111-2128.

Restriction inequalities for the hyperbolic hyperboloid (coauthored with D. Oliveira e Silva and B. Stovall), J. Math. Pures Appl., 149 (2021), 186–215.

Fourier restriction to a hyperbolic cone, J. Funct. Anal., 279 (2020), no. 3, 16 pages.

CONFERENCE & SEMINAR TALKS

St. Mary's University Mathematics Department Colloquium, Halifax, NS, February 6, 2024.

UBC Harmonic Analysis and Fractal Geometry Seminar, Vancouver, BC, January 15, 2024.

Guest speaker, Ohio State University, MATH 8210, online, October 20, 2023.

UBC Harmonic Analysis and Fractal Geometry Seminar, Vancouver, BC, October 25, 2022.

A Young Researchers Symposium in Harmonic Analysis, ICMS, Edinburgh, UK, June 23–24, 2022, *contributed poster*.

CMS Winter Meeting, Session on Harmonic Analysis and Fractal Geometry, online, December 5, 2021.

Fourier Restriction Online 2021 (workshop), March, 2021.

Online Analysis Research Seminar, February 1, 2021.

UBC Analysis Seminar, online, November 18, 2020.

Second Mid-Atlantic Analysis Meeting, online, October 17, 2020.

AMS Spring Central Sectional Meeting, Purdue University, April 4–5, 2020. *Canceled due to COVID-19 pandemic.*

Tenth Ohio River Analysis Meeting, University of Kentucky, March 28–29, 2020. *Canceled due to COVID-19 pandemic.*

Joint Mathematics Meetings, AMS Special Session on Harmonic Analysis, Denver, CO, January 16, 2020.

Geometric and Harmonic Analysis: A Conference for Graduate Students, University of Connecticut, March 29, 2019.

PROFESSIONAL DEVELOPMENT	MAA Project NExT	Aug. 2025 – Aug. 2026
PEER REVIEWS	Bulletin of the London Mathematical Society	
COURSES TAUGHT	As Instructor:	
	MATH 307 Applied Linear Algebra (UBC)	May 2024 – Jun. 2024
	MATH 152 Linear Systems (UBC)	Jan. 2024 – Apr. 2024
	MATH 120 Honours Differential Calculus (UBC)	Sep. 2023 – Dec. 2023
	MATH 200 Calculus III (UBC)	Jan. 2023 – Apr. 2023
	MATH 200 Calculus III (UBC)	Sep. 2022 – Dec. 2022
	MATH 152 Linear Systems (UBC)	Jan. 2022 – Apr. 2022
	MATH 200 Calculus III (UBC)	Sep. 2021 – Dec. 2021
	As Teaching Assistant:	
	MATH 234 Calculus – Functions of Several Variables (UW)	Jan. 2021 – Apr. 2021
	MATH 221 Calculus and Analytic Geometry 1 (UW)	Sep. 2020 – Dec. 2020
	MATH 221 Calculus and Analytic Geometry 1 (UW)	Sep. 2019 – Dec. 2019
	MATH 221 Calculus and Analytic Geometry 1 (UW)	Sep. 2018 – Dec. 2018
	MATH 234 Calculus – Functions of Several Variables (UW)	Sep. 2017 – Dec. 2017
	MATH 221 Calculus and Analytic Geometry 1 (UW)	Sep. 2016 – Dec. 2016