## **Brian Street**

Contact Information	University of Wisconsin-Madison Department of Mathematics 480 Lincoln Drive, Madison, WI 53706	<i>E-mail:</i> street@math.wisc.edu <i>Web:</i> www.math.wisc.edu/~street <i>Phone:</i> 608-263-3603			
Employment	Professor, University of Wisconsin-Madison Associate Professor, University of Wisconsin-Madis Assistant Professor, University of Wisconsin-Madis Van Vleck Assistant Professor, University of Wisco Coxeter Assistant Professor, University of Toronto	son son onsin-Madison	8/2020- 8/2016-8/2020 8/2011-8/2016 8/2009-8/2011 7/2007-7/2009		
Awards, Grants, Fellowships	<ul> <li>Philip R. Certain &amp; Gary D. Sandefur Distinguishe</li> <li>PI, NSF Standard Grant, DMS 1764265</li> <li>PI, NSF Standard Grant, DMS 1401671</li> <li>PI, NSF Standard Grant, DMS 1201314</li> <li>PI, NSF Standard Grant, DMS 1066020</li> <li>NSF Mathematics Sciences Research Postdoc, DMF</li> <li>PI, NSF Conference Grant, DMS 1856473</li> <li>co-PI, NSF Conference Grant, DMS 1803146</li> <li>co-PI, NSF Conference Grant, DMS 1500302</li> <li>UW-Madison Honored Instructor</li> </ul>	ed Faculty Award S 0802587 201	$\begin{array}{c} 2016\\ 6/2018\text{-}5/2021\\ 7/2014\text{-}6/2018\\ 6/2013\text{-}8/2016\\ 7/2011\text{-}6/2014\\ 7/2008\text{-}6/2011\\ 5/2019\text{-}4/2020\\ 5/2018\text{-}3/2019\\ 1/2015\text{-}12/2015\\ 1,\ 2015,\ 2016,\ 2017,\ 2018\end{array}$		
Education	Ph.D., Mathematics, Princeton University, Advisor B.A., Mathematics, University of Virginia, <i>With H</i>	:: Elias Stein Tighest Distinction	2003-2007 1999-2003		
Research Interests	Linear and multilinear singular integrals, sub-Riem lems, several complex variables	annian geometry, subell	iptic PDEs, inverse prob-		
Воок	Multi-parameter Singular Integrals B. Street, Annals of Math. Studies no. 189, Prince	ton University Press (2	014), 411 pages		
Papers	Sub-Hermitian Geometry and the Quantitative Newlander-Nirenberg Theorem B. Street, Adv. Math. 368 (2020), 107137, 87 pages				
	Sharp Regularity for the Integrability of Elliptic Structures B. Street, J. Funct. Anal. 278 (2020), no. 1, 108290, 55 pages				
	Coordinates Adapted to Vector Fields III: Real Analyticity B. Street, arXiv:1808.04635, to appear in Asian Jour. Math., 44 pages				
	Coordinates Adapted to Vector Fields II: Sharp Results B. Street, arXiv:1808.04159, to appear in Amer. Jour. Math. 35 pages				
	Coordinates Adapted to Vector Fields: Canonical Coordinates B. Stovall and B. Street, Geom. Funct. Anal. (2018) 28: 1780-1862, 83 pages				
	Endpoint Lebesgue Estimates For Weighted Averages on Polynomial Curves M. Christ, S. Dendrinos, B. Stovall, B. Street, to appear in Amer. Jour. Math., 56 pages				
	Singular integrals and a problem on mixing flows M. Hadžić, A. Seeger, C. Smart, B. Street, Ann. Inst. H. Poincaré Anal. Non Linéaire 35 (2018), no. 4, 921-943, 23 pages				
	Multilinear singular integral forms of Christ-Journé type A. Seeger, C. Smart, B. Street, Mem. Amer. Math. Soc. 257 (2019), no. 1231, 134 pages				

	<b>On a trilinear singular integral form with determinantal kernel</b> P. Gressman, D. He, V. Kovač, B. Street, C. Thiele, P. Yung, Proc. Amer. Math. Soc., 144(8):3465-3477, 2016, 13 pages		
	<b>Differential Equations with a Difference Quotient</b> B. Street, Electron. J. Differential Equations, Vol. 2017 (2017), No. 227, pp.	1-42, 42  pages	
	Sobolev spaces associated to singular and fractional Radon transfor B. Street, Rev. Mat. Iberoam. 33 (2017), no. 2, 633–748, 116 pages	rms	
	Multi-parameter singular Radon transforms E. Stein and B. Street, Math. Res. Lett., vol. 18 (2011), no. 2, p. 257-277, 2	1 pages	
	Multi-parameter singular Radon transforms I: the $L^2$ theory B. Street, J. Anal. Math. 116 (2012), 83-162, 80 pages		
	Multi-parameter singular Radon transforms II: the $L^p$ theory E. Stein and B. Street, Adv. Math. 248 (2013), 736-783, 48 pages		
	Multi-parameter singular Radon transforms III: real analytic curve E. Stein and B. Street, Adv. Math. 229 (2012), no. 4, 2210-2238, 29 pages	es	
	Multi-parameter Carnot-Carathéodory balls and the theorem of Fr B. Street, Rev. Math. Iberoamericana, Vol 27, No. 2 (2011) 645-732, 88 page	robenius es	
	Reconstruction in the Calderón Problem with Partial Data A. Nachman and B. Street, Comm. PDE, 35 (2010), no. 2, 375-390, 16 pages	5	
	A parametrix for Kohn's operator B. Street, Forum Math., 22 (2010), no. 4, 767-810, 44 pages		
	The $\Box_b$ heat equation and multipliers via the wave equation B. Street, Math. Z. 263 (2009), no. 4, 861-886, 26 pages		
	<b>An algebra containing the two-sided convolution operators</b> B. Street, Adv. Math. 219 (2008), no. 1, 251-315, 65 pages		
	$L^p$ regularity for Kohn's operator B. Street, Math. Res. Lett., 13 (2006), no. 5, 703-711, 9 pages		
	<b>On weakly mixing and doubly ergodic nonsingular actions</b> S. Iams, B. Katz, C. Silva, B. Street, K. Wickelgren, Colloq. Math., 103 (200 pages	05), no. 2, 247-264, 18	
	Sampling on the Sierpinski gasket R. Oberlin, B. Street, R. Strichartz, Experiment. Math., 12 (2003), no. 4, 40	3-418, 16 pages	
Expository	What else abouthypoellipticity? B. Street, Notices Amer. Math. Soc. 65 (2018), no. 4, 424-425, 2 pages		
	Multiparameter Singular Radon Transforms B. Street, a contribution to Analysis and applications: The mathematical work Fefferman, A. Ionescu, T. Tao and S. Wainger, Bull. Amer. Math. Soc.	rk of Elias Stein by C.	
Graduate Training	Expository article "What ELSE about hypoellipticity?" in the Notices of the Series of 24 one hour lectures at Beijing Normal University External examiner for a masters thesis at Chinese University of Hong Kong	e AMS 4/2018 6/2012 2018	
Undergraduate Training	Calculus Coordinator Undergraduate Honors Coordinator	Spring 2020 Fall 2018-Spring 2021	
	Undergraduate Honors Coordinator	Fall 2014-Spring 2017	

REU co-organized and led a group of three undergraduates Faculty Advisor for the undergraduate math club	Summer 2014 2012-2014
ADVISINGTenure Track Mentoring:ACTIVITIESShaoming Guo (UW-Madison)	2019-
Ph D. Students:	
Bingvang Hu, PhD (UW-Madison)	2015-2020
Liding Yao (UW-Madison)	2018-
Lingxiao Zhang (UW-Madison)	2018-
Christopher Breeden (UW-Madison), now at Epic	2013-2015
Graduate Students (first year academic advsior):	
Liding Yao (UW-Madison)	2018
Jinsu Kim (UW-Madison)	2012
Yu Li (UW-Madison)	2012
Christian Noack (UW-Madison)	2012
Angelica Resendiz Mora (UW-Madison)	2012
John Lynch (UW-Madison)	2012 2012
Undergraduate Students:	
Academic advisor to 59 current math majors (as of $8/2020$ )	
Enkhzava Enkhtaivan. REU at UW-Madison	2014
Ian Campbell, REU at UW-Madison	2014
Sam Owen, REU at UW-Madison	2014
PROGRAMS Upcoming: Special Section in Harmonic Analys, AMS Sectional Meeting, Purdue U	niversity5/2021
ORGANIZED Madison Lectures in Fourier Analysis, UW Madison	5/2019
Semester program in Harmonic Analysis, MSRI (including two weeklong workshops	s) Spring $2017$
The interplay between Harmonic Analysis and Geometry, Cortona, Italy	6/2018
Conference on Complex Analysis and Geometry, UW Madison	3/2015
Lectures in Honor of Alex Nagel, UW Madison	4/2013
SEMINARS Analysis Seminar (UW-Madison)	2018-2020
ORGANIZED Reading group at the Harmonic Analysis Program at PCMI	2018
Colloquium (UW-Madison)	2011-2014
Analysis Graduate Student Seminar (UW-Madison)	2013-2014
TEACHING University of Wisconsin-Madison	
Math 221: Calculus I with active learning (REACH)	Spring 2020
Math 825: Topics in Functional Analysis	Fall 2019
Math 825: Topics is Functional Analysis	Spring 2019
Math 221: Calculus I with active learning (REACH, two sections)	Fall 2018
Math 221: Calculus I with active learning (REACH, two sections)	Fall 2016
Math 826: Advanced Topics in Functional Analysis	Spring 2016
Math 234: Calculus III: Functions of several variables (two sections)	Fall 2015
Math 570: Topics in Multi-variable Calculus and Differential Equations Math 620: Massure Theory and Integration	Spring 2015
Math 925: Honors Calculus	5pring 2015 Fall 2014
Math 627. Fourier Analysis	Spring $2014$
Math 721: Graduate Real Analysis	Fall 2013
Math 629: Measure Theory and Integration	Spring 2013

	<ul> <li>Math 722: Complex Analysis</li> <li>Math 551: Topology</li> <li>Math 827: Topics in Fourier Analysis</li> <li>Math 828: Advanced topics in Harmonic Analysis</li> <li>Math 234: Calculus III: Functions of several variables (two sections)</li> <li>Math 376: Topics in Multi-variable Calculus and Differential Equations</li> <li>Math 375: Topics in Linear Algebra and Multi-variable Calculus</li> <li>Math 376: Topics in Multi-variable Calculus and Differential Equations</li> <li>Math 376: Topics in Multi-variable Calculus and Differential Equations</li> <li>Math 375: Topics in Linear Algebra and Multi-variable Calculus</li> </ul>	Spring 2013 Fall 2012 Fall 2012 Spring 2012 Fall 2011 Spring 2011 Fall 2010 Spring 2010 Fall 2009
	University of Toronto	
	Calculus for Engineers Complex Analysis Calculus for Engineers	Spring 2008 Fall 2007 Fall 2007
	Princeton University	
	Logic, TA Calculus I, Instructor Linear Algebra, TA Complex Analysis, TA Logic, TA Calculus I, TA Calculus I, TA	Spring 2007 Fall 2006 Spring 2006 Fall 2005 Fall 2005 Spring 2005 Fall 2004
Department Committees	<ul> <li>2020-2021: Honors Committee (Chair), Analysis Caucus contact, Undergraduate Program Committee 1, Undergraduate Program Committee 2, Math/Education Liaison Committee 2019-2020: Honors Committee (Chair), Awards Committee, Analysis Caucus contact, Undergraduate Advising, Analysis Qualifying Exam Committee, Undergraduate Program Committee 1</li> <li>2018-2019: Honors Committee (Chair), Awards Committee, Hiring Committee, Undergraduate Advising, Undergraduate Program Committee 1, Analysis Caucus contact, Analysis Qualifying Exam Committee, ad hoc committee on the mathematics major (option 2)</li> <li>2016-2017: Honors Committee (Chair), Undergraduate Advising, Undergraduate Program Committee 2, Colloquium Organizer</li> <li>2015-2016: Honors Committee (Chair), Undergraduate Advising</li> <li>2014-2015: Honors Committee, Undergraduate Program Committee 1, Undergraduate Advising</li> <li>2013-2014: Honors Committee, Colloquium Organizer, Undergraduate Program Committee, Faculty Advisor for Undergraduate Math Club</li> <li>2012-2013: Colloquium Organizer, Undergraduate Program Committee, Faculty Advisor for Undergraduate Math Club</li> <li>2011-2012: Colloquium Organizer, Analysis Qualifying Exam</li> </ul>	
Ph.D. Thesis Committees	Chandan Biswas, Keith Rush, Evangelos Dimou, Aaron Peterson, Jason Murcko, I Soledad Benguria, Xianghong Chen	aura Cladek,
Invited Presentations	Upcoming: AMS Sectional Meeting, one of three invited lecturers - Purdue University University of Connecticut - Analysis Seminar MWSCV conference - University of Michigan-Dearborn Hausdorff Institute of Mathematics - Workshop University of Wisconsin-Madison - Analysis Seminar University of Wisconsin-Madison - Analysis Seminar Wrocław, Poland - Conference on Analysis and Applications MSRI - Harmonic Analysis seminar	$\begin{array}{ccc} & 3/2022 \\ 10/2019 \\ 10/2019 \\ 5/2019 \\ 4/2019 \\ 9/2017 \\ 9/2017 \\ 4/2017 \end{array}$

5/2016

5/2016

TSIMF - Workshop on Fourier Analysis and Applications

The Chinese University of Hong Kong - Harmonic Analysis Workshop

LSU - Colloquium	2/	2016
UCLA - Analysis Seminar	11/	2015
Oaxaca, Mexico - Harmonic Analysis, d-bar, and CR Geometry conference	10/	2015
Cornell University - Analysis Seminar	2/	2015
Georgia Tech - Analysis Seminar	11/	2014
Chosun University, Gwangju, Korea, ICM 2014 Satellite Conference in Harmonic Analysis	8/	2014
Hausdorff Institute trimester in Harmonic Analysis and PDE	8/	2014
Oberwolfach - Conference on Real Analysis, Harmonic Analysis and Applications	7/	2014
University of Arkansas - Invited talk at the Spring Lecture Series	4/	2014
Florida State University - Colloquium	11/	2013
University of Pennsylvania - Analysis seminar	4/	2013
Two week lecture series at Beijing Normal University (24 1 hour lectures in total)	6/	2012
Princeton University Analysis seminar	4/	2012
AMS Fall Western Section Meeting	10/	2011
Oberwolfach - Conference on Real Analysis, Harmonic Analysis and Applications	7/	2011
ICMS - Conference on Oscillatory integrals in harmonic analysis	6/	2011
The Ohio State University - Colloquium	1/	2011
University of Wisconsin-Madison - Colloquium	12/	2010
UIUC - HADES seminar	10/	2010
UCLA - Analysis Seminar	5/	2010
Scuola Normale Superiore - Euclidean Harmonic Analysis conference	3/	2010
University of Wisconsin-Madison - Analysis Seminar	1/	2010
Cornell University - Analysis Seminar	11/	2009
Purdue University - Midwest Several Complex Variables Meeting	11/	2009
The Ohio State University - Analysis Seminar	5/	2009
University of Arkansas - Colloquium	3/	2009
University of Rochester - Analysis Seminar	12/	2008
York University - Analysis Seminar	12/	2008
University of Wisconsin - Analysis Seminar	11/	2008
Princeton University - Analysis Seminar	10/	2008
University of Toronto - Analysis Seminar	10/	2008
Oberwolfach - Conference on real analysis, harmonic analysis and applications	7/	2008
Conference in honor of Joe Kohn, Prague	6/	2008
University of Wisconsin - Analysis Seminar	2/	2007
University of Toronto - Analysis Seminar	1/	2007
The Ohio State University - Analysis Seminar	11/	2006