Yunfeng Zhang - Curriculum Vitae

CONTACT INFORMATION	Department of Mathematical Sciences University of Cincinnati Cincinnati, OH 45221-0025	phone: (513) 556-4088 email: zhang8y7@ucmail.uc.edu homepage: yunfengzhang108.github.io			
RESEARCH INTERESTS	Harmonic analysis on Lie groups and homogeneous spaces, classical Fourier analysis, analytic number theory and dispersive equations; concentration of eigenfunctions of the Laplace–Beltrami operator				
ACADEMIC APPOINTMENTS	Visiting Assistant Professor, University of Cincinnati TAL Assistant Professor, Peking University Assistant Research Professor, University of Connecticut		2024 - now 2021 - 2024 2018 - 2021		
EDUCATION	– Advisors: Rowan Killip and Monica Visan		2012 - 2018 2008 - 2012		
Honors and awards	UCLA Mathematics Graduate Research Presentation Prize Tsinghua University Outstanding Graduate Award Fellowship in the Talents Program of Tsinghua University		2018 2012 2009 - 2012		
GRANTS	Co-I, National Key R&D Program of Chi Title: Geometry and Analysis of Homoge Total value: 3,000,000 CNY		2022 - 2024		
	PI, Fundamental Research Funds for the Title: Analysis on Lie Groups Total value: 200,000 CNY	Central Universities, Peking University	2021 - 2023		
PREPRINTS	7. Global well-posedness of mKdV in modulation spaces (with Saikatul Haque, Rowan Killip and Monica Visan) Preprint.				
	6. Bounds of restriction of characters to submanifolds Preprint, submitted. arXiv:2402.03178				
	5. Harmonic analysis on the fourfold cover of the space of ordered triangles (with Hanlong Fang and Xiaocheng Li) Preprint, submitted. arXiv:2301.00529				
Journal Publications	4. On Fourier restriction type problems on compact Lie groups Indiana University Mathematics Journal 72 (2023), No. 6, 2631-2699, 69 pp. arXiv:2005.11451				
	3. Schrödinger equations on compact globally symmetric spaces The Journal of Geometric Analysis 31 (2021), No. 11, 10778-10819, 42 pp. arXiv:2005.00429				
	2. Strichartz estimates for the Schrödinger equation on products of odd-dimensional spheres Nonlinear Analysis 199 (2020), 112052, 21 pp. arXiv:2301.02823				
	1. Strichartz estimates for the Schrödinge Analysis & PDE 13 (2020), No. 4, 117	- U			
Survey Papers	1. Analysis on compact symmetric spaces: eigenfunctions and nonlinear Schrödinger equations In: Ghent Methusalem Colloquium 2021, Trends in Mathematics (2024), Birkhäuser.				

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Talks	AMS Sectional Meeting on Recent Trends in Harmonic Analysis and PDE	March 2024
	NZMS+AustMS+AMS Sectional Meeting on Harmonic Analysis and Hamiltonian PD	Es Dec. 2024
	"Semiclassical fun with SU(3)" Analysis Seminar, University of Cincinnati	September 2024
	"Bounds of restriction of characters to submanifolds" Analysis Seminar, Southern University of Science and Technology	June 2024
	"The modified KdV in modulation spaces: conservation laws and equicontinuity of sol Seminar, Beijing Institute of Technology	utions" June 2024
	"Bounds of restriction of characters to submanifolds" Analysis Seminar, University of Wisconsin–Madison	May 2024
	"Bounds of restriction of characters to submanifolds" Seminar, Beijing Institute of Technology	January 2024
	"Harmonic analysis on compact symmetric spaces" Global Young Scholars Forum, Beijing Normal University	December 2023
	" L^p norms of Laplacian eigenfunctions on compact symmetric spaces" Young Scholars Forum, ShanghaiTech University	December 2023
	" L^p norms of Laplacian eigenfunctions on compact symmetric spaces" Young Mathematician Forum, Shanghai Jiao Tong University	December 2023
	"Harmonic analysis on compact symmetric spaces" Vision Forum for International Young Scholars, Beihang University	December 2023
	" L^p norms of Laplacian eigenfunctions on compact symmetric spaces" Global Forum for Young Mathematicians, SUSTech	November 2023
	" L^p norms of Laplacian eigenfunctions on compact Lie groups" Teli Forum for International Young Scholars, Beijing Institute of Technology	November 2023
	"Discrete Fourier restriction and the Kloosterman circle method" Colloquium, Huaibei Normal University	September 2023
	"Fourier restriction type problems on compact Lie groups" Seminar, Beijing Institute of Technology	September 2023
	"Nonlinear Schrödinger equation on compact symmetric spaces" Methusalem Seminar, Ghent University	November 2021
	"Fourier restriction bounds on compact symmetric spaces" Conference on Harmonic Analysis and Symmetric Spaces, UW–Madison	October 2021
	"Strichartz estimate for the Schrödinger equation on compact globally symmetric space. Oberseminar Analysis, Bielefeld University	ees" April 2021
	"Schrödinger equations on compact globally symmetric spaces" Weekly Seminar on Geometric and Functional Inequalities and Applications, UConn	February 2021
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"Size of Laplacian eigenfunctions on compact symmetric spaces" AMS Sectional Meeting on Geometric Inequalities and Nonlinear PDEs

AMS Sectional Meeting on Analysis on Homogeneous Spaces

"Strichartz estimates for the Schrödinger equation on compact symmetric spaces"

SERVICE

Referee for research journals including Journal of Functional Analysis, Selecta Mathematica and Transactions of the American Mathematical Society

Co-organizer of the Analysis and Probability Seminar at the University of Connecticut, Fall 2020 and

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September 2020

March 2020

Spring 2021

Reviewer for Mathematical Reviews and zbMATH Open

TEACHING EXPERIENCE	As Instructor - Calculus I (two sections), University of Cincinnati - College Algebra (two sections), University of Cincinnati - Linear Algebra B ("B" stands for "for the Physical Sciences"), Peking University - Linear Algebra B, Peking University - Advanced Mathematics B (i.e. Calculus for the Physical Sciences), Peking University - Partial Differential Equations (two classes), University of Connecticut - Partial Differential Equations (two classes), University of Connecticut - Axiomatic Geometry (two classes), University of Connecticut - Introduction to Complex Variables (two classes), University of Connecticut - Partial Differential Equations (two classes), University of Connecticut - Honors Calculus II, University of Connecticut - Honors Multivariable Calculus, University of Connecticut		Spring 2025 Fall 2024 Fall 2023 Fall 2022 Fall 2021 Spring 2021 Fall 2020 Spring 2020 Fall 2019 Spring 2019 Fall 2018 Fall 2018
	 Calculus for Life Sciences Students II, U As Teaching Assistant 	CLA	Summer 2017
	 Probability Theory II, UCLA Algebra for Applications, UCLA Analysis I, UCLA Probability Theory I, UCLA Differential and Integral Calculus, UCLA Linear & Nonlinear Systems of Different Mathematical Game Theory, UCLA Partial Differential Equations, UCLA Discrete Structures, UCLA Precalculus, UCLA Calculus for Life Sciences Students I, UCLA Linear Algebra I, UCLA Differential Geometry II, UCLA Ordinary Differential Equations, UCLA Integration and Infinite Series, UCLA Complex Analysis for Applications, UCLA Differential Equations, UCLA 	Fall 2017, Winter 20 A sial Equations, UCLA Fall 2015, Spring 20 Fall CLA Spring 20	ng 2018, Spring 2017, Winter 2017, Winter 2018 Fall 2017, Winter 2016, Fall 2015 Winter 2017, Winter 2015, Fall 2016 UCLA Fall 2015, Spring 2015, Winter 2014 Summer 2015 Spring 2015 Winter 2015 Fall 2014, Fall 2012 Fall 2014 Summer 2014 Summer 2014 Summer 2014 Spring 2014 Spring 2014 Spring 2014 Spring 2014 Spring 2014 Fall 2013 Spring 2013 Winter 2013
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Reference

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Simon Marshall marshall@math.wisc.edu
Terence Tao tao@math.ucla.edu
Monica Visan visan@math.ucla.edu

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