$\mathbf{Yunfeng}$ \mathbf{Zhang} - Curriculum Vitae

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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	Ph.D. in Mathematics, UCLA Advisors: Rowan Killip and Monica Visan		2012 - 2018		
	B.S. in Mathematics, Tsinghua University		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-PI, National Key R&D Program of China (PI: Hanlong Fang) Title: Geometry and Analysis of Homogeneous Spaces Total value: 3,000,000 CNY				
	PI, Fundamental Research Funds for the Title: Analysis on Lie Groups Total value: 200,000 CNY	e Central Universities, Peking University	2021 - 2023		
Preprints	8. Global well-posedness of mKdV in modulation spaces (with Saikatul Haque, Rowan Killip and Monica Visan) Preprint.				
	7. Bounds of restriction of characters to submanifolds Preprint, submitted. arXiv:2402.03178				
	6. Harmonic analysis on the fourfold cover of the space of ordered triangles (with Hanlong Fang and Xiaocheng Li) Preprint, submitted. arXiv:2301.00529				
Publications	5. Analysis on compact symmetric spaces: eigenfunctions and nonlinear Schrödinger equations In: Ghent Methusalem Colloquium 2021, Trends in Mathematics (2024), Birkhäuser.				
	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 Schrödinger flow on compact Lie groups				

 $Analysis \ \mathcal{C}\ PDE\ 13\ (2020),\ No.\ 4,\ 1173\text{-}1219,\ 47\ pp.\ arXiv:1703.07548$

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Invited 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
	"Size of Laplacian eigenfunctions on compact symmetric spaces"	G 4 1 2022

AMS Sectional Meeting on Analysis on Homogeneous Spaces

Service Referee for research journals including Journal of Functional Analysis, S

AMS Sectional Meeting on Geometric Inequalities and Nonlinear PDEs

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

March 2020

September 2020

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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Spring 2021

Reviewer for Mathematical Reviews and zbMATH Open

Teaching	As Instructor –				
EXPERIENCE					
	College Algebra (two sections), University of Cincinnati			Spring 2025 Fall 2024	
	Linear Algebra B ("B" stands for "for the Physical Sciences"), Peking University			Fall 2023	
	Linear Algebra B, Peking University				
	Advanced Mathematics B (i.e. Calculus for the Physical Sciences), Peking University				
	Partial Differential Equations (two class	Fall 2021 Spring 2021			
	Partial Differential Equations (two classes), University of Connecticut			Fall 2020	
	Axiomatic Geometry (two classes), University of Connecticut			Spring 2020	
	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				
	Calculus for Life Sciences Students II, UCLA				
	As Teaching Assistant –				
	Probability Theory II, UCLA	Spring 2018, Sp	Spring 2018, Spring 2017, Winter 2017, Winter 2016		
	Algebra for Applications, UCLA			Winter 2018	
	Analysis I, UCLA		Fall 2017, Winter 2016, Fall 2015		
	Probability Theory I, UCLA	Winter 2017		17, Winter 2015	
	Differential and Integral Calculus, UCL	A		Fall 2016	
	Linear & Nonlinear Systems of Differen	tial Equations, UCLA	Fall 2015, Spring 20	15, Winter 2014	
	Mathematical Game Theory, UCLA			Summer 2015	
	Partial Differential Equations, UCLA			Spring 2015	
	Discrete Structures, UCLA			Winter 2015	
	Precalculus, UCLA		Fall	l 2014, Fall 2012	
	Calculus for Life Sciences Students I, U	CLA		Fall 2014	
	Linear Algebra I, UCLA			Summer 2014	
	Differential Geometry II, UCLA			Spring 2014	
	Ordinary Differential Equations, UCLA		Spring 20	14, Winter 2014	
	Integration and Infinite Series, UCLA			Fall 2013	
	Complex Analysis for Applications, UC	LA		Spring 2013	
	Differential Equations, UCLA			Winter 2013	
Reference	Rowan Killip	killip@math.ucla.edu			
	Simon Marshall	marshall@math.wisc.edu			
	Dimon Maishan	marshan smann, wisc.edu			

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Terence Tao

Monica Visan