## ${\bf Yunfeng} \ {\bf Zhang} - {\rm Curriculum} \ {\rm Vitae}$

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 Cincinnati2TAL Assistant Professor, Peking University2Assistant Research Professor, University of Connecticut2		2024 - now 2021 - 2024 2018 - 2021
Education	<ul> <li>Ph.D. in Mathematics, UCLA</li> <li>– Advisors: Rowan Killip and Monica Visan</li> <li>B.S. in Mathematics, Tsinghua University</li> </ul>	n.D. in Mathematics, UCLA Advisors: Rowan Killip and Monica Visan S. in Mathematics, Tsinghua University	
Honors and Awards	UCLA Mathematics Graduate Research Prese Tsinghua University Outstanding Graduate A Fellowship in the Talents Program of Tsinghu	A Mathematics Graduate Research Presentation Prize hua University Outstanding Graduate Award yship in the Talents Program of Tsinghua University 2009 -	
Grants	Co-I, National Key R&D Program of China (PI: Hanlong Fang) Title: Geometry and Analysis of Homogeneous Spaces Total value: 3,000,000 CNY		2022 - 2024
	PI, Fundamental Research Funds for the Cent Title: Analysis on Lie Groups Total value: 200,000 CNY	ral Universities, Peking University	2021 - 2023
Preprints	7. Global well-posedness of mKdV in modula (with Saikatul Haque, Rowan Killip and M	tion spaces onica Visan) Preprint.	
	6. Bounds of restriction of characters to submanifolds Preprint, submitted. arXiv:2402.03178		
	5. Harmonic analysis on the fourfold cover of (with Hanlong Fang and Xiaocheng Li) Pre-	the space of ordered triangles I: the invariant print, submitted. arXiv:2301.00529	differentials
Journal Publications	4. On Fourier restriction type problems on co Indiana University Mathematics Journal 72	mpact Lie groups 2 (2023), No. 6, 2631-2699, 69 pp. arXiv:2005.	11451
	<ol> <li>Schrödinger equations on compact globally symmetric spaces The Journal of Geometric Analysis 31 (2021), No. 11, 10778-10819, 42 pp. arXiv:2005.00429</li> </ol>		
	<ol> <li>Strichartz estimates for the Schrödinger equation on products of odd-dimensional spheres Nonlinear Analysis 199 (2020), 112052, 21 pp. arXiv:2301.02823</li> </ol>		
	1. Strichartz estimates for the Schrödinger flow on compact Lie groups Analysis & PDE 13 (2020), No. 4, 1173-1219, 47 pp. arXiv:1703.07548		
Survey Papers	<ol> <li>Analysis on compact symmetric spaces: eigenfunctions and nonlinear Schrödinger equations In: Methusalem Lectures, Trends in Mathematics (2024), vol 3, Birkhäuser, Cham.</li> </ol>		

Talks	AMS Sectional Meeting on Recent Trends in Harmonic Analysis and PDE, U. of Kansas	March 2025
	NZMS+AustMS+AMS Meeting on Harmonic Analysis and Hamiltonian PDE, U. of Auc	kland 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 solution Seminar, Beijing Institute of Technology	ons" 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 Junior Analysis & PDE 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 spaces" Oberseminar Analysis, Bielefeld University	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" AMS Sectional Meeting on Geometric Inequalities and Nonlinear PDEs, UTEP	September 2020
	"Strichartz estimates for the Schrödinger equation on compact symmetric spaces" AMS Sectional Meeting on Analysis on Homogeneous Spaces, Tufts U. (Cancelled over C	ovid) Mar. 2020
SERVICE	Referee for research journals including Journal of Functional Analysis, Selecta Mathematic	ica and

Transactions of the American Mathematical Society

Co-organizer of the Analysis and Probability Seminar at the U. of Connecticut, Fall 2020 and Spring 2021 Reviewer for Mathematical Reviews and zbMATH Open

TEACHING As Instructor

EXPERIENCE

– Calculus I (two sections), University of Cincinna	ati	Spring 2025
– College Algebra (two sections), University of Ci	Fall 2024	
– Linear Algebra B ("B" stands for "for the Phys	Fall 2023	
– Linear Algebra B, Peking University		Fall 2022
– Advanced Mathematics B (i.e. Calculus for the	Physical Sciences), Peking University	Fall 2021
– Partial Differential Equations (two classes), University of Connecticut		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		Fall 2019
– Partial Differential Equations (two classes), University of Connecticut		Spring 2019
– Honors Calculus II, University of Connecticut		Fall 2018
– Honors Multivariable Calculus, University of Connecticut		Fall 2018
– Calculus for Life Sciences Students II, UCLA		Summer 2017
As Teaching Assistant		
– Probability Theory II, UCLA	Spring 2018, Spring 2017, Winter 20	017, Winter 2016

- Flobability Theory II, UCLA	spring 2018, spring 2017, whiter 2017, whiter 20	910
– Algebra for Applications, UCLA	Winter 20	018
– Analysis I, UCLA	Fall 2017, Winter 2016, Fall 20	015
– Probability Theory I, UCLA	Winter 2017, Winter 20	015
– Differential and Integral Calculus, UCLA	Fall 20	016
– Linear & Nonlinear Systems of Differential Equation	ns, UCLA Fall 2015, Spring 2015, Winter 20	014
– Mathematical Game Theory, UCLA	Summer 20	015
– Partial Differential Equations, UCLA	Spring 20	015
– Discrete Structures, UCLA	Winter 20	015
– Precalculus, UCLA	Fall 2014, Fall 20	012
– Calculus for Life Sciences Students I, UCLA	Fall 20	014
– Linear Algebra I, UCLA	Summer 20	014
– Differential Geometry II, UCLA	Spring 20	014
– Ordinary Differential Equations, UCLA	Spring 2014, Winter 20	014
– Integration and Infinite Series, UCLA	Fall 20	013
– Complex Analysis for Applications, UCLA	Spring 20	013
– Differential Equations, UCLA	Winter 20	013
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Reference	Rowan Killip	killip@math.ucla.edu
	Simon Marshall	marshall@math.wisc.edu
	Terence Tao	tao@math.ucla.edu
	Monica Visan	visan@math.ucla.edu