${\bf Yunfeng~Zhang}-{\bf Curriculum~Vitae}$

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, 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		$2024 - \\ 2021 - 2024 \\ 2018 - 2021$
EDUCATION	Ph.D. in Mathematics, UCLA – Advisors: Rowan Killip and Monica Visan B.S. in Mathematics, Tsinghua University		2012 - 2018 $2008 - 2012$
Honors and Awards	Tsinghua University Outstanding Graduate Award		$2018 \\ 2012 \\ 2009 - 2012$
GRANTS	Co-I, National Key R&D Program of China (I Title: Geometry and Analysis of Homogeneou	9 9/	2022 - 2024
	PI, Fundamental Research Funds for the Cent Title: Analysis on Lie Groups	ral Universities, Peking University	2021 - 2023
PREPRINTS	7. Global well-posedness and equicontinuity for mKdV in modulation spaces (with Saikatul Haque, Rowan Killip and Monica Visan) Preprint, submitted. arXiv:2411.05300		5300
	6. Bounds of restriction of characters to subm Preprint, submitted. arXiv:2402.03178	anifolds	
	5. Harmonic analysis on the fourfold cover of (with Hanlong Fang and Xiaocheng Li) Pre	the space of ordered triangles I: the invariant oprint, submitted. arXiv:2301.00529	lifferentials
JOURNAL 4. On Fourier restriction type problems on compact Lie groups Indiana University Mathematics Journal 72 (2023), No. 6, 2631-2699, 69 pp.			1451
	3. Schrödinger equations on compact globally The Journal of Geometric Analysis 31 (202	symmetric spaces 1), No. 11, 10778-10819, 42 pp. arXiv:2005.004	129
	2. Strichartz estimates for the Schrödinger equal Nonlinear Analysis 199 (2020), 112052, 21 p	uation on products of odd-dimensional spheres pp. arXiv:2301.02823	
	1. Strichartz estimates for the Schrödinger flo Analysis & PDE 13 (2020), No. 4, 1173-121		
Expository Papers	, , , , , , , , , , , , , , , , , , ,	enfunctions and nonlinear Schrödinger equation matics vol. 3 (2024), 235-240, Birkhäuser, Char	

Talks	AMS Sectional Meeting on Recent Trends in Harmonic Analysis and PDE, U. of Kansas	Mar. 2025
	"On the modified KdV equation in modulation spaces" Joint Meeting of the NZMS, AustMS and AMS: Special Sessions, University of Auckland	Dec. 2024
	"Semiclassical fun with SU(3)" Prairie Analysis Seminar 2024, University of Kansas	Oct. 2024
	"Semiclassical fun with $SU(3)$ " Analysis Seminar, University of Cincinnati	Sep. 2024
	"Bounds of restriction of characters to submanifolds" Analysis Seminar, Southern University of Science and Technology	Jun. 2024
	"The modified KdV in modulation spaces: conservation laws and equicontinuity of solutions" Seminar, Beijing Institute of Technology	Jun. 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	Jan. 2024
	"Harmonic analysis on compact symmetric spaces" Global Young Scholars Forum, Beijing Normal University	Dec. 2023
	" L^p norms of Laplacian eigenfunctions on compact symmetric spaces" Young Scholars Forum, ShanghaiTech University	Dec. 2023
	" L^p norms of Laplacian eigenfunctions on compact symmetric spaces" Young Mathematician Forum, Shanghai Jiao Tong University	Dec. 2023
	"Harmonic analysis on compact symmetric spaces" Vision Forum for International Young Scholars, Beihang University	Dec. 2023
	" L^p norms of Laplacian eigenfunctions on compact symmetric spaces" Global Forum for Young Mathematicians, SUSTech	Nov. 2023
	" L^p norms of Laplacian eigenfunctions on compact Lie groups" Teli Forum for International Young Scholars, Beijing Institute of Technology	Nov. 2023
	"Discrete Fourier restriction and the Kloosterman circle method" Colloquium, Huaibei Normal University	Sep. 2023
	"Fourier restriction type problems on compact Lie groups" Seminar, Beijing Institute of Technology	Sep. 2023
	"Nonlinear Schrödinger equation on compact symmetric spaces" Methusalem Junior Analysis & PDE Seminar, Ghent University	Nov. 2021
	"Fourier restriction bounds on compact symmetric spaces" Conference on Harmonic Analysis and Symmetric Spaces, UW–Madison	Oct. 2021
	"Strichartz estimate for the Schrödinger equation on compact globally symmetric spaces" Oberseminar Analysis, Bielefeld University	Apr. 2021
	"Schrödinger equations on compact globally symmetric spaces" Weekly Seminar on Geometric and Functional Inequalities and Applications, UConn	Feb. 2021
	"Size of Laplacian eigenfunctions on compact symmetric spaces" AMS Sectional Meeting on Geometric Inequalities and Nonlinear PDEs, UTEP	Sep. 2020
	"Strichartz estimates for the Schrödinger equation on compact symmetric spaces" AMS Sectional Meeting on Analysis on Homogeneous Spaces, Tufts II. (Cancelled over Covid)	Mar 2020

SERVICE Referee for

- Communications on Pure and Applied Analysis
- Journal of Functional Analysis
- $-\ Journal\ of\ Pseudo-Differential\ Operators\ and\ Applications$
- Selecta Mathematica (quick opinion)
- 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 EXPERIENCE

As Instructor

- Calculus I (two sections), University of Cincinnati	Spring 2025
- College Algebra (two sections), University of Cincinnati	Fall 2024
- Linear Algebra B ("B" stands for "for the Physical Sciences"), Peking University	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 2017, Winter 2016
- Algebra for Applications, UCLA	Winter 2018
– Analysis I, UCLA	Fall 2017, Winter 2016, Fall 2015
– Probability Theory I, UCLA	Winter 2017, Winter 2015
– Differential and Integral Calculus, UCLA	Fall 2016
- Linear & Nonlinear Systems of Differential Equation	ons, UCLA Fall 2015, Spring 2015, Winter 2014
- Mathematical Game Theory, UCLA	Summer 2015
- Partial Differential Equations, UCLA	Spring 2015
– Discrete Structures, UCLA	Winter 2015
- Precalculus, UCLA	Fall 2014, Fall 2012
– Calculus for Life Sciences Students I, UCLA	Fall 2014
– Linear Algebra I, UCLA	Summer 2014
- Differential Geometry II, UCLA	Spring 2014
- Ordinary Differential Equations, UCLA	Spring 2014, Winter 2014
- Integration and Infinite Series, UCLA	Fall 2013
– Complex Analysis for Applications, UCLA	Spring 2013

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

- Differential Equations, UCLA

Winter 2013