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

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 (integrable) 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		$\begin{array}{r} 2024 - \\ 2021 - 2024 \\ 2018 - 2021 \end{array}$
EDUCATION	– Advisors: Rowan Killip and Monica Visan		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 PI, Fundamental Research Funds for the Cent Title: Analysis on Lie Groups	s Spaces	2022 - 2024 $2021 - 2023$
Preprints	 8. Local well-posedness for nonlinear Schrödinger equations on compact product manifolds Preprint, submitted. arXiv:2503.09442 7. Global well-posedness and equicontinuity for mKdV in modulation spaces (with Saikatul Haque, Rowan Killip and Monica Visan) Preprint, submitted. arXiv:2411.05300 		
	 6. Bounds of restriction of characters to subm Preprint, submitted. arXiv:2402.03178 5. Harmonic analysis on the fourfold cover of (with Hanlong Fang and Xiaocheng Li) Pre 	anifolds the space of ordered triangles I: the invarian	
Journal Publications	 On Fourier restriction type problems on compact Lie groups Indiana University Mathematics Journal 72 (2023), No. 6, 2631-2699 (69 pp). arXiv:2005.11451 Schrödinger equations on compact globally symmetric spaces The Journal of Geometric Analysis 31 (2021), No. 11, 10778-10819 (42 pp). arXiv:2005.00429 Strichartz estimates for the Schrödinger equation on products of odd-dimensional spheres Nonlinear Analysis 199 (2020), 112052, 21 pp. arXiv:2301.02823 		5.00429
Expository Papers	 Strichartz estimates for the Schrödinger flo Analysis & PDE 13 (2020), No. 4, 1173-121 Analysis on compact symmetric spaces: eig In: Methusalem Lectures, Trends in Mather 	19 (47 pp). arXiv:1703.07548 renfunctions and nonlinear Schrödinger equa	

Γ ALKS	"The modified KdV equation in modulation spaces" Analysis Seminar, University of Cincinnati	Apr. 2025
	"Bounds of restriction of characters to submanifolds" AMS Sectional Meeting on Recent Trends in Harmonic Analysis and PDE, U. of Kansas	Mar. 2025
	"Multi-linear multi-parameter eigenfunction bounds and NLS on compact manifolds" Beijing Institute of Technology	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" 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" 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" 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"	

Apr. 2021

Feb. 2021

Oberseminar Analysis, Bielefeld University

"Schrödinger equations on compact globally symmetric spaces"

Weekly Seminar on Geometric and Functional Inequalities and Applications, UConn

"Size of Laplacian eigenfunctions on compact symmetric spaces"

AMS Sectional Meeting on Geometric Inequalities and Nonlinear PDEs, UTEP

Sep. 2020

Winter 2013

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

AMS Sectional Meeting on Analysis on Homogeneous Spaces, Tufts U. (Cancelled over Covid) Mar. 2020

SERVICE AND

Referee for

OUTREACH

- 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

Judge for the 40th Annual UC Math Bowl, a high school and middle school math contest

TEACHING EXPERIENCE

As Instructor

Fall 2025
Fall 2025
Spring 2025
Spring 2025
Fall 2024
Fall 2023
Fall 2022
Fall 2021
Spring 2021
Fall 2020
Spring 2020
Fall 2019
Spring 2019
Fall 2018
Fall 2018
Summer 2017

As Teaching Assistant

- Differential Equations, UCLA

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