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

CONTACT INFORMATION	School of Mathematical Sciences Peking University No.5 Yiheyuan Road, Haidian District Beijing, China 100871	phone: (+86)13083350375 email: yunfengzhang108@gmail.com 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	TAL Assistant Professor, Peking University 2		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	UCLA Mathematics Graduate Research Presentation Prize		2018	
AWARDS	Tsinghua University Outstanding Graduate Award Fellowship in the Talents Program of Tsinghua University		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		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. 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 flo Analysis & PDE 13 (2020), No. 4, 1173-127			

Last update: 19 Dec. 2023

Invited Talks	Special Session on Harmonic Analysis and Hamiltonian PDEs Joint Meeting of the NZMS, AustMS and AMS, University of Auckland	December 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 Seminar, Beijing Institute of Technology	f solutions" 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	October 2021
	"Strichartz estimate for the Schrödinger equation on compact globally symmetric s Oberseminar Analysis, Bielefeld University	spaces" April 2021
	"Schrödinger equations on compact globally symmetric spaces" Weekly Seminar on Geometric and Functional Inequalities and Applications	February 2021
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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 Spring 2021

Reviewer for Mathematical Reviews and zbMATH Open

"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"

September 2020

 $March\ 2020$

TEACHING As In EXPERIENCE Lines

As Instructor –

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
Differential Equations, UCLA	Winter 2013

REFERENCE

Rowan Killip killip@math.ucla.edu
Simon Marshall marshall@math.wisc.edu
Ambar Sengupta ambar.sengupta@uconn.edu
Terence Tao tao@math.ucla.edu
Monica Visan visan@math.ucla.edu