

Yunfeng 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 especially on Lie groups, and related fields such as analytic number theory and dispersive equations; concentration of eigenfunctions of the Laplace–Beltrami operator	
ACADEMIC APPOINTMENTS	TAL Assistant Professor, Peking University Assistant Research Professor, University of Connecticut	2021 - now 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	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 on Homogeneous Spaces Total value: 3,000,000 CNY PI, Fundamental Research Funds for the Central Universities, Peking University Title: Analysis on Lie Groups Total value: 200,000 CNY	2022 - now 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	
JOURNAL PUBLICATIONS	5. On Fourier restriction type problems on compact Lie groups <i>Indiana University Mathematics Journal</i> 72 (2023), No. 6, 2631-2699, 69 pp. arXiv:2005.11451 4. Schrödinger equations on compact globally symmetric spaces <i>The Journal of Geometric Analysis</i> 31 (2021), No. 11, 10778-10819, 42 pp. arXiv:2005.00429 3. Strichartz estimates for the Schrödinger equation on products of odd-dimensional spheres <i>Nonlinear Analysis</i> 199 (2020), 112052, 21 pp. arXiv:2301.02823 2. Strichartz estimates for the Schrödinger flow on compact Lie groups <i>Analysis & PDE</i> 13 (2020), No. 4, 1173-1219, 47 pp. arXiv:1703.07548	
CONFERENCE PAPERS	1. Analysis on compact symmetric spaces: eigenfunctions and nonlinear Schrödinger equations In: Ghent Methusalem Colloquium 2021, Trends in Mathematics (2024), Birkhäuser.	
INVITED TALKS	Special Session on Harmonic Analysis and Hamiltonian PDEs Joint Meeting of the NZMS, AustMS and AMS, University of Auckland Seminar Beijing Institute of Technology	December 2024 January 2024

	Global Young Scholars Forum Beijing Normal University	December 2023
	Young Scholars Forum ShanghaiTech University	December 2023
	Young Mathematician Forum Shanghai Jiao Tong University	December 2023
	Vision Forum for International Young Scholars Beihang University	December 2023
	Global Forum for Young Mathematicians Southern University of Science and Technology	November 2023
	Teli Forum for International Young Scholars Beijing Institute of Technology	November 2023
	Colloquium Huaibei Normal University	September 2023
	Seminar Beijing Institute of Technology	September 2023
	Ghent Methusalem Colloquium Ghent University	November 2021
	Conference on Harmonic Analysis and Symmetric Spaces University of Wisconsin-Madison	October 2021
	Oberseminar Analysis Bielefeld University	April 2021
	Weekly Seminar on Geometric and Functional Inequalities and Applications University of Connecticut	February 2021
	Special Session on Geometric Inequalities and Nonlinear PDEs AMS Sectional Meeting, University of Texas at El Paso	September 2020
	Special Session on Analysis on Homogeneous Spaces AMS Sectional Meeting, Tufts University	March 2020
SERVICE	Referee for research journals including <i>Journal of Functional Analysis</i> , <i>Selecta Mathematica</i> , and <i>Transactions of the American Mathematical Society</i>	
	Co-organizer of the Analysis and Probability Seminar at the University of Connecticut, Fall 2020 and Spring 2021	
	Reviewer for Mathematical Reviews	
TEACHING EXPERIENCE	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 Equations, 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

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