

Yunfeng Zhang - Curriculum Vitae

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| 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 analytic number theory | |
| 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 - 2027 2021 - 2023 |
| PREPRINTS | <ol style="list-style-type: none"> Bounds of restriction of characters to submanifolds of maximal tori arXiv:2402.03178 Harmonic analysis on the fourfold cover of the space of ordered triangles (with Hanlong Fang and Xiaocheng Li) arXiv:2301.00529 | |
| PUBLICATIONS | <ol style="list-style-type: none"> On Fourier restriction type problems on compact Lie groups <i>Indiana Univ. Math. J.</i> 72 (2023), No. 6, 2631-2699, 69 pp. arXiv:2005.11451 Schrödinger equations on compact globally symmetric spaces <i>J. Geom. Anal.</i> 31 (2021), No. 11, 10778-10819, 42 pp. arXiv:2005.00429 Strichartz estimates for the Schrödinger equation on products of odd-dimensional spheres <i>Nonlinear Anal.</i> 199 (2020), 112052, 21 pp. arXiv:2301.02823 Strichartz estimates for the Schrödinger flow on compact Lie groups <i>Anal. PDE</i> 13 (2020), No. 4, 1173-1219, 47 pp. arXiv:1703.07548 | |
| 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 Global Young Scholars Forum Beijing Normal University | December 2024 January 2024 December 2023 |

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| | 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 Junior Seminar 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>J. Funct. Anal.</i> , <i>Selecta Math.</i> , and <i>Trans. Amer. Math. Soc.</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 Linear Algebra B, Peking University Advanced Mathematics B (i.e. Calculus for the Physical Sciences), Peking University Partial Differential Equations (two classes), University of Connecticut Partial Differential Equations (two classes), University of Connecticut Axiomatic Geometry (two classes), University of Connecticut Introduction to Complex Variables (two classes), University of Connecticut Partial Differential Equations (two classes), University of Connecticut Honors Calculus II, University of Connecticut Honors Multivariable Calculus, University of Connecticut Calculus for Life Sciences Students II, UCLA | 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 –

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| 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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|----------------|--------------------------|
| 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 |