Assistant Professor Mai Weixiong

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Academic Qualification:

Ph.D (2012-2016) University of Macau

Master (2010-2012) University of Macau

Bachelor (2006-2010) Sun Yat-sen University

Teaching Area

Calculus

Research Area

One and Several Variables Complex Analysis; Harmonic Analysis; Clifford Analysis; Signal Processing;

Working Experience

2021/09 -now Assistant Professor, Macao Center for Mathematical Science, Macau University of Science and Technology

2018/11-2021/07 Research Fellow, School of Mathematics (Zhuhai), Sun Yat-sen University

2017/04-2018/04 Research Assistant, Macau University of Science and Technology

2016/09-2017/04, 2018/05-2018/08 Research Assistant & Postdoc, University of Macau

Research Grants

2020/01-2022/12 National Natural Science Foundation of China for Young Scientist Fund, Grant No. 11901594, 280000 RMB

Representative publications (Complete publication refer to my webpage)

W.-X. Mai, G. Shao, On the Bergman Kernel in Weighted Monogenic Bargmann-Fock Spaces, arXiv:2109.15137v2 [math.CV], 2021.

W.-X. Mai, J. Ou, Three Balls Theorem for Eigenfunctions of Dirac Operator in Clifford Analysis, arXiv:2110.14991 [math.CV], 2021.

P. Dang, **W.-X. Mai**, T. Qian, On Monogenic Reproducing Kernel Hilbert Spaces of the Paley-Wiener Type, arXiv:2009.11078v3 [math.CV], 2020.

W.-X. Mai, T. Qian, The Fourier Type Expansions on Tubes, accepted by Complex Variables and Elliptic Equations, 2020, https://doi.org/10.1080/17476933.2020.1833868.

W.-X. Mai, J. Ou, Uncertainty Principle and Its Rigidity on Complete Gradient Shrinking Ricci Solitons, Proceedings of the American Mathematical Society, 149 (2021), 285-299.

P. Dang, **W.-X. Mai**, T. Qian, Fourier Spectrum of Clifford H^p Spaces on $\mathbf R^{n+1}_+$ for $1\leq p\leq \infty$, Journal of Mathematical Analysis and Applications, 483 (2020), 123598.

P. Dang, **W.-X. Mai**, A Remark on Riesz Bases of Subspaces in Hardy Spaces, Complex Variables and Elliptic Equations, 65 (2020), 1950-1961.

T. Qian, J. Z. Wang, **W.-X. Mai**, An Enhancement Algorithm for Cyclic Adaptive Fourier Decomposition, Applied and Computational Harmonic Analysis, 47 (2019), 516-525.

W.-X. Mai, T. Qian, Rational Approximation in Hardy Spaces on Strips, Complex Variables and Elliptic Equations, 63 (2018), 1721-1738.

W.-X. Mai, T. Qian, Aveiro Method in Reproducing Kernel Hilbert Spaces under Complete Dictionary, Mathematical Methods in the Applied Sciences, 40 (2017), 7240-7254.

W.-X. Mai, P. Dang, L.-M. Zhang, T. Qian, Consecutive Minimum Phase Expansion of Physically Realizable Signals with Applications, Mathematical Methods in the Applied Sciences, 39 (2016), 62-72.

Q.-H. Chen, **W.-X. Mai**, L.-M. Zhang, W. Mi, System Identification by Discrete Rational Atoms, Automatica, 56 (2015), 53-59.

Professional Certification and Awards

Journal Editorship

Personal Website