

YILIN MA

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RESEARCH INTERESTS

Microlocal analysis, scattering theory and numerical analysis

EMPLOYMENT

University College London 2025–
Research Fellow
Principal Investigator: Jeff Galkowski
Email: j.galkowski@ucl.ac.uk

EDUCATION

The Australian National University 2025
Doctor of Philosophy
Thesis: Second Microlocalization and Fredholm Theory for the Three-Body Problem
Supervisor: Andrew Hassell
Email: andrew.hassell@anu.edu.au

The University of Sydney 2021
Master of Philosophy
Thesis: Nonlinear Calderón Problem on Stein Manifolds
Supervisor: Leo Tzou
Email: leo.tzou@gmail.com

The University of Sydney 2019
Bachelor of Science (Honours) in Pure Mathematics *First Class*

PUBLICATIONS

- [1.] Yilin Ma. Second microlocalization and Fredholm theory for the three-body problem, 2026. [arXiv:2411.11771](#).
- [2.] Yilin Ma. A note on the partial data inverse problem for a nonlinear magnetic Schrödinger operator on Riemann surface, 2020. [arXiv:2010.14180](#).
- [3.] Yilin Ma. The Calderón problem in the L^p framework on Riemann surfaces, 2020. [arXiv:2007.06523](#)
- [4.] Yilin Ma and Leo Tzou. Semilinear Calderón problem on Stein manifolds with Kähler metric. *Bulletin of the Australian Mathematical Society*, **103**(1):132-144, 2020.

UNIVERSITY OF SYDNEY TUTORIAL TEACHING

MATH1962 Mathematics 1B (Adcanced)	<i>Semester Two 2025</i>
MATH1062 Mathematics 1B	<i>Semester Two 2025</i>
MATH1961 Mathematics 1A (Advanced)	<i>Semester One 2025</i>
MATH1061 Mathematics 1A	<i>Semester One 2025</i>
MATH1062 Mathematics 1B	<i>Semester Two 2024</i>
MATH1021 Mathematics 1A	<i>Semester One 2024</i>
MATH1921 Mathematics 1A (Advanced)	<i>Semester One 2024</i>
MATH1023 Multivariate Calculus and Modelling	<i>Semester Two 2023</i>
MATH1021 Calculus of One Variable	<i>Semester One 2023</i>
PHAR1822 Physical Pharmaceutics and Formulation A	<i>Semester Two 2022</i>
MATH1021 Calculus of One Variable	<i>Semester Two 2022</i>

MATH1002 Linear Algebra	<i>Semester One 2022</i>
MATH1002 Linear Algebra	<i>Semester One 2022</i>
MATH1004 Discrete Mathematics	<i>Semester Two 2021</i>
MATH1023 Multivariable Calculus and Modelling	<i>Semester Two 2021</i>
MATH1021 Calculus of One Variable	<i>Semester One 2021</i>
MATH1002 Linear Algebra	<i>Semester One 2021</i>
MATH1023 Multivariable Calculus and Modelling	<i>Semester Two 2020</i>
MATH1021 Calculus of One Variable	<i>Semester Two 2020</i>
MATH1902 Linear Algebra (Advanced)	<i>Semester One 2020</i>
MATH1021 Calculus of One Variable	<i>Semester One 2020</i>
MATH1002 Linear Algebra	<i>Intensive January Session 2020</i>
MATH1023 Multivariable Calculus and Modelling	<i>Semester Two 2019</i>
MATH1021 Calculus of One Variable	<i>Semester Two 2019</i>
MATH1021 Calculus of One Variable	<i>Semester One 2019</i>