

Ruoyu P. T. Wang
Department of Mathematics, 25 Gordon Street
London WC1E 6BT, UK

Tel: +44 (0) 745 666 6262
Email: r.wang.13@ucl.ac.uk
Homepage: www.homepages.ucl.ac.uk/~zcahrwa

Research Interests

My research interests lie in analysis of partial differential equations and spectral theory. I am also interested in problems from differential geometry and mathematical physics.

Education

- **University of Cambridge** Cambridge, UK
M.A.St. Mathematical Tripos Part III 2016 – exp. 2017
- **University College London** London, UK
B.Sc. Mathematics, First Class Honours, ranked 1/200 2013 – 2016
- **Nanjing Foreign Language School** Nanjing, P.R. China
High School Graduate 2007 – 2013

Research Experience

- **University College London** London, UK
Summer Research Student February 2016 – present
– Topic: ‘Trapped Modes of Maxwell’s Equations’. Supervisor: I. Kamotski.
- **University College London** London, UK
Summer Research Student June 2015 – December 2015
– Topic: ‘Spectral Problems on 3-Tori’. Supervisor: D. Vassiliev.

Prizes and Scholarships

- **Wynne-Roberts Prize** 2016
Department of Mathematics, University College London
- **IMA Graduate Prize** 2016
Institute of Mathematics and its Applications & University College London
- **Dean’s List (5%)** 2016
Faculty of Mathematical and Physical Sciences, University College London
- **Bosanquet Prize** 2015
Department of Mathematics, University College London
- **Departmental Summer Student Scholarship** 2015
Department of Mathematics, University College London
- **Fifth Departmental Undergraduate Prize** 2014
Department of Mathematics, University College London

Professional Association

- **Institute of Mathematics and its Applications** London, UK
Associate Member 2016 – present

Talks and Presentations

- [1] “Spectral Problems on 3-Tori,” 20 January 2016. Winter Enrichment Program, KAUST, Saudi Arabia.
- [2] “Theory of Distributions and Linear Differential Equations,” 13 February 2016. Tomorrow’s Mathematicians Today, University of Greenwich, UK.
- [3] “Generalised Derivatives,” 3 October 2016. Maths UG Colloquium, University College London, UK.

Research Skills

Programming: Python (NumPy, SymPy), C++, Mathematica, MATLAB.

Mathematical Writing: L^AT_EX with packages beamer and TikZ.

Language: Mandarin and basic German.

Reference

Professor R. Halburd.

Department of Mathematics, University College London, Gower Street, LONDON WC1E 6BT.

Dr. I. Kamotski.

Department of Mathematics, University College London, Gower Street, LONDON WC1E 6BT.

Professor D. Vassiliev.

Department of Mathematics, University College London, Gower Street, LONDON WC1E 6BT.

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