

Curriculum Vitae - Larry Alexander Read

PERSONAL INFORMATION

Date of birth: 11 January 1997

Citizenship: British

Languages: English (native), French (intermediate), Spanish (basic)

Email: read@math.lmu.de

Personal webpage: www.math.lmu.de/~read

ORCID: [0000-0003-2744-5854](https://orcid.org/0000-0003-2744-5854)

Current affiliation: Ludwig Maximilian University (LMU) Munich

Address: Mathematisches Institut, Theresienstr. 39, 80333 München, Germany.

RESEARCH INTERESTS

Spectral asymptotics, bounds and formulae; functional inequalities; partial differential equations; and calculus of variations.

POSITIONS

03/2023–09/2025 **Postdoctoral Researcher**

Ludwig Maximilian University Munich, Germany

Mentor: Professor Rupert L. Frank

EDUCATION

10/2019–07/2023 **Ph.D. in Pure Mathematics**, Roth Scholarship

Imperial College London, UK

Thesis: Spectral bounds for Schrödinger operators in dimensions one and two

Supervisor: Professor Ari Laptev

Co-supervisor: Professor Boguslaw Zegarlinski

10/2015–07/2019 **Master of Mathematics (MMath)**

University of Warwick, UK

Dissertation: Gibbs measures for the nonlinear Schrödinger equation

Supervisor: Professor Vedran Sohinger

Grade: First Class Honours

PUBLICATIONS AND PREPRINTS

- (with Charlotte Dietze) *Concentration of eigenfunctions on singular Riemannian manifolds*, Preprint (2024). ([arXiv](#))

- *On the asymptotic number of low-lying states in the two-dimensional confined Stark effect*, Preprint (2024). ([arXiv](#))
- *Negative spectrum of Schrödinger operators with rapidly oscillating potentials*, Ann. Henri Poincaré (2024). ([arXiv](#) – [article](#))
- (with Rupert L. Frank and Ari Laptev) *Weighted CLR type bounds in two dimensions*, Trans. Amer. Math. Soc. **377**, 3357–3371 (2024). ([arXiv](#) – [article](#))
- *Lieb–Thirring type bounds for perturbed Schrödinger operators with single-well potentials*, J. Math. Phys. **64**, 062102 (2023). ([arXiv](#) – [article](#))
- (with Boguslaw Zegarlinski and Mengchun Zhang) *Logarithmic Schrödinger equations in infinite dimensions*, J. Math. Phys. **63**, 111502 (2022). ([arXiv](#) – [article](#))
- (with Ari Laptev and Lukas Schimmer) *Calogero type bounds in two dimensions*, Arch. Ration. Mech. Anal. **245**, 1491–1505 (2022). ([arXiv](#) – [article](#)).

TALKS

- [Workshop on Eigenvalue Estimates for Laplace and Schrödinger Operators](#), University of Stuttgart (2024).
- Oberseminar, LMU Munich (2024).
- [SFB Junior Workshop](#), Herrsching (2023).
- [Munich–Copenhagen–Santiago Seminar in Mathematical Physics](#), online (2023).
- Junior Analysis and Probability Seminar, University of Warwick (2023).
- [Workshop for young researchers in analysis and mathematical physics](#), LMU Munich (2023).
- Junior Analysis and Probability Seminar, University of Warwick (2023).
- Graduate Seminar, LMU Munich (2023).
- Loughborough Analysis Seminar, Loughborough University (2023).
- [Junior Analysis Seminar](#), Imperial College (2023).
- Oberseminar, LMU Munich (2022).
- [Institute Colloquium](#), University of Stuttgart (2022).
- [Operator Theory Analysis and Mathematical Physics '22](#), Stockholm University (2022).
- [Young Researchers Workshop on Probability and PDEs](#), Institute of Mathematics of Granada (2022).

- [London–Ghent Microlocal Analysis Workshop](#), online (2022).
- [Imperial College–ULisboa PhD Meeting](#), Lisbon University (2021).
- [Junior Analysis Seminar](#), Imperial College (2021).
- [London Analysis Summer School](#), online (2021).
- [Coercive inequalities and PDEs](#), online (2020).

TEACHING

LMU Munich:

Teaching assistant for [Harmonic Analysis](#) (2023) and PDE 2 (2024).

Imperial College London:

Teaching assistant for:

- MATH40008 Individual Research Project (2022)
- MATH95001 Differential Equations (2020)
- MATH95007 Complex Analysis (2020, 2022 and 2023)
- MATH95005 Real Analysis (2019)
- MATH40002 Analysis 1 (2019)

Developed problem sheets for:

- M345P6 Probability Theory (2021)
- M345P7 Functional Analysis (2020)

University of Warwick:

First-year Supervisor (2018) and teaching assistant for MA131 Analysis 1 (2016).

Munich, Germany, November 10, 2024