

Curriculum Vitae - Larry Alexander Read

PERSONAL INFORMATION

Date of birth: 11 January 1997

Citizenship: British

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Current affiliation: Université Paris-Saclay

Address: Laboratoire de Mathématiques d'Orsay, bâtiment 307, 91405 Orsay, France.

RESEARCH INTERESTS

Spectral analysis; scattering theory; functional inequalities; and partial differential equations.

POSITIONS

10/2025–09/2027 **Postdoctoral Researcher**
University of Paris–Saclay, France
Mentor: Prof. Nicolas Burq

03/2023–10/2025 **Postdoctoral Researcher**
University of Munich (LMU), Germany
Mentor: Prof. 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: Prof. Ari Laptev
Co-supervisor: Prof. Boguslaw Zegarlinski

10/2015–07/2019 **Master of Mathematics (MMath)**
University of Warwick, UK
Dissertation: Gibbs measures for the nonlinear Schrödinger equation
Supervisor: Prof. Vedran Sohinger
Grade: First Class Honours

PUBLICATIONS AND PREPRINTS

- *On the asymptotic number of low-lying states in the two-dimensional confined Stark effect*, Forum Math. Sigma, to appear (2025). ([arXiv](#))
- (with Rupert L. Frank) *Jost solutions and direct scattering for the continuum Calogero–Moser equation*, Preprint (2025). ([arXiv](#))
- (with Rupert L. Frank and Jonas W. Peteranderl) *Sharp quantitative integral inequalities for harmonic extensions*, Preprint (2025). ([arXiv](#))
- *Negative spectrum of Schrödinger operators with rapidly oscillating potentials*, Ann. Henri Poincaré **26**, 81–97 (2025). ([arXiv](#) – [article](#))
- (with Charlotte Dietze) *Concentration of eigenfunctions on singular Riemannian manifolds*, Preprint (2024). ([arXiv](#))
- (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](#)).

CONFERENCES, WORKSHOPS AND SEMINARS

Selected Talks:

- [QLunch](#), University of Copenhagen (2025)
- [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).
- 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).
- Imperial College–ULisboa PhD Meeting, Lisbon University (2021).
- Junior Analysis Seminar, Imperial College (2021).
- Coercive inequalities and PDEs, online (2020).

Organiser:

- Young Researchers Workshop on Probability and PDEs, Institute of Mathematics of Granada (2022).
- London–Ghent Microlocal Analysis Workshop, online (2022).
- London Analysis Summer School, online (2021).

TEACHING

LMU Munich:

Teaching assistant for Harmonic Analysis (2023) and PDE 2 (2024, 2025).

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:

Supervisor of first-year students (2018) and teaching assistant for MA131 Analysis 1 (2016).

Paris, France, November 5, 2025