

James de Lisle

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Abridged; a full version is available on request.

Key Skills

- Software Development.
- Abstract Problem Solving.
- Platform Engineering.
- Data Science.
- Natural Language Processing.
- Machine Learning.
- Project Management.
- Technical Lead.
- Architecture Design.

Technical Skills

- **Programming:** *Python, Go, C++, Java* • **Databases:** *PostgreSQL, Neo4j, TigerGraph, Elastic*
- **Platform:** *Kubernetes, AWS, Azure, Kafka, Pulumi, Benthos* • **GPGPU:** *OpenMP, CUDA*
- **Machine Learning:** *PyTorch, Ray, MLFlow* • **DevOps:** *CircleCI, Github Actions, Argo*
- **Support:** *Git, L^AT_EX, Subversion, Unix, Windows* • **Personal Projects:** *HLSL, C#*

Education

2012-2016	PhD Theoretical Physics	University of Leeds
2011-2012	MSc Quantum Technologies	University of Leeds
2010-2011	PGCE Secondary Science with Physics	University of West England
2006-2009	BSc Mathematics and Physics	University of Bristol

Previous Employment

2025-present	Netcraft , Bristol, Remote, Principal AI Engineer.
2024-2025	Complexio , Bristol, Remote, Senior AI Engineer, Technical Lead.
2023-2024	Pyrre Tech , Bristol, Remote, Data Platform Architect.
2021-2023	Adarga , Bristol, Lead Machine Learning Engineer, Technical Lead.
2019-2021	Riskaware , Bristol, Senior Software Engineer.
2017-2019	Osaka University , Osaka, Specially Appointed Researcher.
2016	University of Leeds , Leeds. Post-doctoral Researcher.
2012-2016	University of Leeds , Leeds. Physics Researcher.

Publications

The New Journal of Physics, Volume: **16**, Article #: 083022. (2014) [arXiv:1402.3222]
Detection of Chern numbers and entanglement in topological two-species systems through subsystem winding numbers.

Physical Review Letters, Volume: **114**, Article #: 016801 (2015) [arXiv:1408.1038]
Induced topological phases at the boundary of 3D topological superconductors.

Physical Review B, Volume: **94**, Article #: 054505 (2016) [arXiv:1605.06335]
Nested defects on the boundary of topological superconductors.

Bulletin of the American Physical Society, Volume: **2018** (2018) [bibcode:2018APS..MARE13009D]
Identifying Weyl superconductivity in UCoGe via the chiral-magnetothermal effect.