Dominic Ryder

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Areas of Specialisation

philosophy of physics, philosophy of science, formal social epistemology

Areas of Competence

philosophy of probability, philosophy of sex, sexuality and gender, epistemology, logic

Education

2022-2026 (*expected*) **MPhil/PhD** London School of Economics and Political Science
'Hawking radiation, idealized: modelling and idealization in quantum field theory on black hole spacetimes'
Supervisors (Primary / Secondary): Prof. Bryan Roberts / Prof. Miklós Rédei

2025 **Visiting Fellow** UC Irvine, Department of Logic and Philosophy and Science

2024-2025 **Visiting Research Scholar** University of Pittsburgh, History and Philosophy of Science Department

2021-2022 **MASt** University of Cambridge
Mathematical Tripos Part III — Honours: **Merit**

2016-2020 **MSci** University of Bristol
Physics and Philosophy — Honours - **First Class Honours**

Publications

Published

'The Black Hole Idealization Paradox' (*forthcoming in the **British Journal for the Philosophy of Science***)

Currently under revise and resubmit

'Is Black Hole Evaporation Prediction Friendly?' (*under revision for **Philosophy of Science***) - *draft available on request*

Invited to Contribute

'Quantum Field Theory and the Standard Model' with Prof. Michael Miller (*to be written for a Elsevier Comprehensive Philosophy of Science collected volume*)

Awards

2024 LSE Philosophy Department Class Teacher Award
2022 London Arts and Humanities Partnership Scholarship
2024 London Arts and Humanities Partnership Research Extension Award (awarded to undertake research period in Pittsburgh)
2022 Girton College Cambridge, M T Meyer Scholarship Award
2020 University of Bristol Physics Master's Project Commendation

Teaching

At London School of Economics and Political Sciences

2026 'Intermediate Logic'
- Graduate teaching assistant *&* guest lecturer

2025 'Introduction to Logic'
- Graduate teaching assistant *&* guest lecturer

2024 'Physics and Uncertainty'
- Graduate teaching assistant

2023 'Einstein for Everyone'
- Graduate teaching assistant *&* guest lecturer

Other teaching

2023 Black Hole Thermodynamics - Online for Golden Wedding of Black Holes and Thermodynamics pre-conference mini-course (6 lectures)
- Co-lecturer *&* co-organiser

2021 Physics and Philosophy Tutor, Self-Employed

2022-23 High School Mathematics Tutor, Self-Employed

Talks

^ = invited contribution
* = peer reviewed contribution

'Is Black Hole Evaporation Prediction Friendly?'

2025	*Foundations of Physics 2025	Gdánsk
2025	^Midwest Philosophy of Physics Meeting	Notre Dame, US
2025	*Philosophy of Logic, Mathematics, and Physics Graduate Conference	London, Canada
2025	*European Philosophy of Science Association 2025 (*poster*)	Groningen
2025	^Irvine Philosophy of Physics Reading Group	Irvine
2024	*Philosophy of Science Association 2024	New Orleans

'De-idealizing Black Hole Evaporation: A Case Study in the Large Scale Structure of De-idealization'

2025	^Sigma Club	London (*upcoming*)
2025	^UCSD Philosophy of Physics Reading Group	San Diego
2025	^Oxford Philosophy of Physics Graduate Seminar	Oxford
2025	^Utrecht Philosophy of Astronomy *&* Cosmology Colloquium	Utrecht

'We Don't Know What We Don't Know: Dawid's no-alternatives argument and alternatives to string theory'

2025	*Berkeley-London Graduate Conference	Berkeley

'The Black Hole Idealization Paradox'

2024	*Philosophy of Quantum Gravity; DPG Annual Meeting	Berlin
2024	*4th ILMPS Conference and Workshop in Philosophy and Foundations of Physics	London, UK
2024	^Harvard Black Hole Initiative Foundations Seminar (*physics*)	Harvard (Online)
2024	^São Paulo Quantum Field Theory in Curved Spacetime Journal Club (*physics*)	São Paulo (Online)
2023	^Golden Wedding of Black Holes and Thermodynamics (*physics*)	São Paulo (Online)
2023	^Cosmology and Quantum Gravity Beyond Spacetime	London, Canada
2023	^Bristol Philosophy of Physics Seminar	Bristol

'Is the Hawking Effect the Unruh Effect?'

2024	Pittsburgh Philosophy of Physics Reading Group	Pittsburgh
2024	*British Society for the Philosophy of Science Annual Conference (*Symposium*)	York

'Is Masculinity Harming Quantum Gravity Research?'

2024 *First Feminist Philosophy of Physics Workshop — Michigan

'Time Without Entropy: Does Gravity Solve the Problem of the Arrow of Time?' (previously 'Directed Temporal Asymmetry from Scale Invariant Dynamics: Is the Problem of Time's Arrow Solved?')

2023 ^British Society for the Philosophy of Science Annual Conference (*Symposium*) — Bristol
2023 *Foundations of Physics 2023 (*poster*) — Bristol
2023 *Open Topics in Philosophy of Physics — Lisbon
2023 *4th Lisbon International Conference on Philosophy of Science — Lisbon
2023 *First International Colloquium Emergence and Time — Braga
2022 *BBLOC Graduate Conference in the Philosophy of Physics — London, UK

Further Conference and Symposium Participation

2025 Seven Pines Symposium (*physics*) — Stillwater, MN
2022 International Summer Institute in Philosophy of Physics on the Philosophy of Cosmology and Philosophy of Quantum Gravity — Morzine

Public Talks

2024 'What is Sexual Desire?', Lunchtime with a Philosopher — London, UK
2023 'Whence the Arrow of Time?', Seven of Clubs — London, UK

Service

Journals refereed on behalf of: **Philosophy of Science**, **Foundations of Physics**, **European Journal for the Philosophy of Science**

Organisation and Responsibility

2023- Co-organiser of LSE-Cambridge Philosophy of Physics Bootcamp
2023- Co-founder and co-organiser of London Philosophy of Sex and Sexuality reading group
2023- MAP (Minorities and Philosophy) mentor
2019-2020 President of Physics and Philosophy Society, Bristol

Master's Projects

2021-2022 **Cambridge Part III Essay**
Supervisor: Prof. Jeremy Butterfield
'The Hole Argument and Gauge Equivalence in General Relativity: An Account, and Partial Defence, of Einstein Algebras'

2019-2020 **Master's Philosophy Project**
Supervisor: Dr. Karim Thébault
'Directed Temporal Asymmetry from Scale-Invariant Dynamics: Is the Problem of Time's Arrow Solved?'

2019-2020 **Master's Physics Project**
Supervisor: Prof. Sandu Popescu
'On Angular Momentum Conservation in the Aharonov-Bohm Effect'

References Available Upon Request