

Eleanor March

eleanor.march@uci.edu
(+1)949-732-8350
(+44)7516 020703
eleanormarch.com

EDUCATION

University of California, Irvine

Department of Logic and Philosophy of Science

- PhD in Philosophy

Sep. 2025 –

Balliol College, University of Oxford

- BPhil in Philosophy (Distinction)

Oct. 2023 – June 2025

Thesis: “Minimal coupling, the strong equivalence principle, and the adaptation of matter to spacetime geometry”

- MPhysPhil in Physics and Philosophy (First Class Honours)

Oct. 2019 – June 2023

Thesis: “On theories of Newtonian gravitation and the question of theoretical equivalence”

AWARDS

- Hanneke Janssen Memorial Prize for the best thesis or paper on the subject of History and Philosophy of Modern Physics submitted for a Master’s degree in 2024/25 (November 2025)
- Social Science Merit Scholarship, University of California, Irvine (2025-)
- Graduate Dean’s Recruitment Fellowship, University of California, Irvine (September 2025)
- Gilbert Ryle Prize for the best overall performance at distinction level on the BPhil, Faculty of Philosophy, University of Oxford (July 2025)
- David Shwayder Prize for the best essay submitted for any taught graduate course in Philosophy in the 2023/24 academic year, Christ Church College, Oxford (June 2025)
- Dervorguilla scholarship, Balliol College, Oxford (2023–25)
- Brian Dickinson scholarship, Balliol College, Oxford (2023–25)
- BPhil scholarship, Faculty of Philosophy, University of Oxford (2023–25)
- Elizabeth Anscombe prize for the best undergraduate thesis in all Honour Schools including Philosophy, Faculty of Philosophy, University of Oxford (August 2023)
- Gibbs Prize for outstanding performance in the Philosophy papers in Part C of the Honour School of Physics and Philosophy, University of Oxford (August 2023)
- Conroy Prize in Physics, Balliol College, Oxford (January 2023)
- Gibbs Prize for outstanding performance in the Philosophy papers in Part B of the Honour School of Physics and Philosophy, University of Oxford (September 2022)
- Gibbs Prize for practical work in Part A of the Honour School of Physics and Philosophy, University of Oxford (August 2021)

RESEARCH

Articles published in peer-reviewed journals

- A14. “Points, curves, and hypersurfaces: Reassessing the historical geometric object concept.” Forthcoming in *HOPOS*. <https://philsci-archive.pitt.edu/id/eprint/24517>.
- A13. “Natural theories,” with James Owen Weatherall. Forthcoming in *The British Journal for the Philosophy of Science*. <https://doi.org/10.1086/740611>.
- A12. “Kinematical equivalence and cosmic conspiracies,” with Caspar Jacobs. Forthcoming in *The British Journal for the Philosophy of Science*. <https://doi.org/10.1086/7388314>.
- A11. “A puzzle about general covariance and gauge,” with James Owen Weatherall. Forthcoming in *The British Journal for the Philosophy of Science*. <https://doi.org/10.1086/736478>.
- A10. “Categorical equivalence and the kinematics-dynamics distinction.” Forthcoming in *The British Journal for the Philosophy of Science*. <https://doi.org/10.1086/734035>.
- A9. “Are Maxwell gravitation and Newton-Cartan theory theoretically equivalent?” Forthcoming in *The British Journal for the Philosophy of Science*. <https://doi.org/10.1086/730863>.
- A8. “On coordinate-based and coordinate-free approaches to Newtonian gravitation on Maxwellian space-time.” *Philosophy of Science* 92 (4): pp. 1004-21 (2025). <https://doi.org/10.1017/psa.2025.10096>.
- A7. “What is the value in an intrinsic formalism?” *Erkenntnis* (2025). <https://doi.org/10.1007/s10670-025-01008-5>.
- A6. “Equivalence, reduction, and sophistication in teleparallel gravity,” with Lu Chen and James Read. *European Journal for Philosophy of Science* 15: 32 (2025). <https://doi.org/10.1007/s13194-025-00658-0>.
- A5. “Many worlds or one: reply to Steeger.” *Synthese* 205: 170 (2025). <https://doi.org/10.1007/s11229-025-05003-9>.
- A4. “A primer on Carroll gravity,” with James Read. *Classical and Quantum Gravity* 42 (5): 055004 (2025). <https://doi.org/10.1088/1361-6382/adaf03>.
- A3. “Some remarks on recent approaches to torsionful non-relativistic gravity,” with William J. Wolf, James Read, and Nicholas J. Teh. *Foundations of Physics* 54: 75 (2024). <https://doi.org/10.1007/s10701-024-00801-6>.
- A2. “On the geometric trinity of gravity, non-relativistic limits, and Maxwell gravitation,” with William J. Wolf and James Read. *Philosophy of Physics* 2 (1): 15 (2024). <https://doi.org/10.31389/pop.80>.
- A1. “Is the Deutsch-Wallace theorem redundant?” *Philosophy of Physics* 2 (1): 7 (2024). <https://doi.org/10.31389/pop.65>.

Articles submitted to peer-reviewed journals

- S3. “What is this sophistication thing anyway?” with James Read. Submitted to *The British Journal for the Philosophy of Science*. <https://philsci-archive.pitt.edu/id/eprint/27247>.
- S2. ““the logical sequence of his Principles”: Understanding Du Châtelet on Newton’s law of gravitation in the *Principia*.” Submitted to *Studies in the History and Philosophy of Science*. <https://philsci-archive.pitt.edu/id/eprint/24524>.
- S1. “Non-relativistic twistor theory: Newtonian limits and gravitational collapse,” with James Read. Submitted to *Foundations of Physics*. <http://philsci-archive.pitt.edu/id/eprint/22924>.

Article reviews

- R1. “Review of “The classification of general affine connections in Newton-Cartan geometry: Towards metric-affine Newton-Cartan gravity”, by Philip K. Schwartz,” with James Read. *Mathematical Reviews* 4866216 (2025).

Works in progress

- W1. “The theory of geometric objects: Collected and translated papers, 1926–52,” with James Read. Contributors include Silvester Borsboom, Neil Dewar, and Ruward Mulder.
- W2. “What is a gluon?” with India Bhalla-Ladd and James Owen Weatherall
- W3. “Fun with minimal coupling, parts 1-5,” with James Owen Weatherall.
- W4. “Spinors and philosophy,” with Henrique Gomes and James Owen Weatherall.
- W5. “Humeanism, naturally,” with James Read.
- W6. “Literally! An essay on interpretation, translation, and semantic privilege.”
- W7. “New work for the kinematics-dynamics distinction.”
- W8. “‘I must be imagining this.’ On the possibility of self-gaslighting,” with Jingyi Wu.
- W9. “Why philosophers of physics need a feminist epistemology of physics.”

TALKS

Invited talks

- IT12. Invited speaker, New Directions in the Foundations of Physics, Lake Bohinj, May 2026 (scheduled).
- IT11. “Minimal coupling, the strong equivalence principle, and the adaptation of matter to spacetime geometry.” Radboud Centre for Natural Philosophy, Nijmegen, 12th December 2025.
- IT10. “What is this sophistication thing anyway?” Oxford Philosophy of Physics workshop, 10th December 2025 (with James Read).
- IT9. “Minimal coupling, the strong equivalence principle, and the adaptation of matter to spacetime geometry.” BHI Foundations Seminar, Harvard, 20th October 2025 (talk delivered online).
- IT8. “Minimal coupling, the strong equivalence principle, and the adaptation of matter to spacetime geometry.” Metaphysics of Cosmology Workshop, Lugano, 11th September 2025.
- IT7. “‘I must be imagining this.’ On the possibility of self-gaslighting.” LSE, 11th March 2025.
- IT6. “‘I must be imagining this.’ On the possibility of self-gaslighting.” UCL LEMM (Language, Epistemology, Metaphysics, and Mind) seminar, 18th February 2025.
- IT5. “Carroll gravity.” Oxford Philosophy of Physics seminar, 31st October 2024 (with James Read).
- IT4. “On some examples from first-order logic as motivation for categorical equivalence of KPMs.” Workshop on Theory, Equivalence, and Interpretation in Logic, Mathematics, and Science, Bristol, 1st August 2024.
- IT3. “On some examples from first-order logic as motivation for categorical equivalence of KPMs.” ILMPS conference, London, 11th June 2024.

IT2. “On some examples from first-order logic as motivation for categorical equivalence of KPMS.” Oxford Philosophy of Physics mini-workshop, 9th May 2024.

IT1. “Are Maxwell gravitation and Newton-Cartan theory theoretically equivalent?” SoCal Philosophy of Physics group, 13th April 2024.

Refereed talks

RT4. “Categorical equivalence and the kinematics-dynamics distinction.” Symposium on kinematics and dynamics, BSPS, Glasgow, 17th July 2025.

RT3. “Minimal coupling, the strong equivalence principle, and the adaptation of matter to spacetime geometry.” Foundations of Physics, Gdańsk, 2nd July 2025.

RT2. “Why philosophers of physics need a feminist epistemology of physics.” Feminist mathematical philosophy workshop, London, 7th March 2025.

RT1. “The non-relativistic limit and common cores of geometric trinitities.” Symposium on the geometric trinity of gravity, PSA, New Orleans, 16th November 2024 (with William J. Wolf).

Other talks

OT5. “Minimal coupling, the strong equivalence principle, and the adaptation of matter to spacetime geometry.” Oxford PoP-Grunch seminar, 19th June 2025.

OT4. “But what was Newton up to, really? Understanding Du Châtelet on the logical structure of the *Principia*.” Oxford PoP-Grunch seminar, 20th February 2025.

OT3. “What is minimal coupling, really?” Oxford PoP-Grunch seminar, 17th October 2024.

OT2. “Is the Deutsch-Wallace theorem redundant?” Oxford PoP-Grunch seminar, 29th November 2023.

OT1. “Maxwell gravitation, Newton-Cartan theory, and the non-relativistic geometric trinity.” Oxford PoP-Grunch seminar, 1st November 2023.

Other conference participation

- Invited discussant, New Directions in the Foundations of Physics, Logar Valley, May 2025.

TEACHING

University of Oxford

FHS (Final Honour Schools) papers:

- *Philosophy of Science*

Tutorials: Somerville College (MT24), Magdalen College (HT25), St. Anne’s College (TT25), Oriel College (TT25).

Collection marking: St. John’s College (TT24), Somerville College (HT25), Magdalen College (TT25).

Revision tutorials: St. John’s College (TT24).

- *Intermediate Philosophy of Physics (QM and SR)*

Tutorials: Queen’s College (MT24).

Collection marking: Queen’s College (HT25).

Revision tutorials: Pembroke College (TT25).

Prelims (First Public Examination) papers:

- *The Leibniz-Clarke Correspondence*
Tutorials: Worcester College (TT25).

Other:

- *Essay-writing skills*
Tutorials: Balliol College (HT25, TT25).

SERVICE

- Reviewer for: *British Journal for the Philosophy of Science*, *Classical and Quantum Gravity*, *European Journal for Philosophy of Science*, *Philosophy of Physics*, *Philosophy of Science*, *Synthese*
- (Co-)organiser and (co-)convenor for the Oxford PoP-Grunch (Philosophy of Physics Graduate Lunch) Seminar (2024/25 academic year)
- (Co-)organiser of QFT² reading group (2025–)

ADDITIONAL EDUCATIONAL AND PROFESSIONAL TRAINING

Summer schools and visiting positions

- Associate researcher, Department of Philosophy, Logic, and Scientific Method, LSE (2024/25 academic year)
- York Spring School on Symmetry and Measurement in QFT (April 2025)
- Visiting researcher, Department of Logic and Philosophy of Science, University of California, Irvine (April 2024, January 2025)

MISC.

- Languages: English – native, German – proficient
- Music: grade 8 violin and piano, General Secretary of the Balliol Music Society (2024)