

Bethany TERRIS, PH.D.

PhD Researcher | Philosophy of Physics

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Interdisciplinary PhD researcher in quantum foundations, trained in working at the boundary between theory, experiment, and interpretation. Comfortable with detail-oriented, precision-driven work, long review cycles, and applying consistent criteria across complex material. Strong communicator with experience supporting alignment between researchers working across disciplines.

EXPERIENCE

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| 2022-2025 | PhD Researcher – Philosophy of Physics (Quantum Information & Foundations), CEA-SACLAY, France <ul style="list-style-type: none">➢ Designed and coordinated a three-year independent research project on quantum measurement theory and quantum information, working closely with physicists across theory and experiment.➢ Analysed how formal results in quantum theory are used across the literature, systematically checking consistency between mathematical models, physical assumptions, and claims about system behaviour.➢ Developed tools for clarifying assumptions, limits of applicability, and compatibility between different theoretical frameworks — skills directly relevant to complex, multi-component quantum systems.➢ Produced a 100,000-word doctoral thesis and multiple peer-reviewed publications, managing long-term planning, revision cycles, and external feedback.➢ Regularly translated and presented technically subtle ideas for non-specialist physicists, collaborators, and mixed audiences, improving clarity and alignment across disciplines. |
| 2021-present | Private Tutor, REMOTE, UK <ul style="list-style-type: none">➢ Delivered 1,000+ hours of one-to-one instruction at secondary school and university level.➢ Built long-term client relationships based on reliability, clarity, and measurable outcomes. |

Key skills : Conceptual analysis; Project management; Science communication; LaTex; Python (basics); Autonomy; Resilience.

EDUCATION

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| 2022 – 2025 | PhD Philosophy of Physics, CEA-Saclay, Université Paris-Saclay |
| 2020 – 2021 | Master Philosophy of Physics, University of Bristol |
| 2017 – 2020 | BSc (Hons) Physics with Philosophy, University of York |

PUBLICATIONS

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| Ph.D. Thesis | Bethany Terris, 2025. <i>Weak Values in Quantum Mechanics : Conceptual Questions</i> . |
| Journal article | Bethany Terris, 2025. Weak Particle Presence. <i>Foundations of Physics</i> . |
| Forthcoming | Bethany Terris, Alexei Grinbaum, 2025. Observation as a Temporal Process. |

SELECTED COMMUNICATION & OUTREACH

Academic Writing Podcast — Guest (2025). Discussion of common sources of misinformation in quantum mechanics and strategies for countering them through clear, conceptually rigorous communication.

University of Bristol - Invited Speaker (2025). 60-minute invited lecture on weak values in quantum mechanics.

IQSA Conference - Speaker (2024). 30 minute presentation on quantum ‘presence’.

LANGUES

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| English | Native language. |
| French | B1. |