

Academic CV – PhD Candidate in Philosophy of Physics

Alexandre LE NEPVOU

Prospective doctoral researcher in philosophy of physics

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Academic Background

2023–2025 — Master's Degree in Philosophy of Science, specialization in Philosophy of Physics, Université Paris Cité (with High Honors)

Thesis: *Presentism, Relativity, and Past Truths: Towards a Stratified Temporal Theory*

Supervisors: Eric Huguet (physicist), Justin Smith (philosopher)

Core research axes: Ontic Structural Realism, Presentism, Quantum Gravity, Truthmaking

2020–2023 — Bachelor's Degree in Philosophy, Université Rennes 1

Training in predicate logic, history of philosophy, metaphysics, and epistemology

Research Interests

- Philosophy of Physics (Time, Presentism, Relativity, Quantification)
- Contemporary Metaphysics (Modality, Truth, Structure, Emergence)
- Ontic Structural Realism and Complex Systems Theory
- General Philosophy
- Analytic and Modal Philosophy
- Metaphysics of Physics (Ontology of physical structures and entities)

Current Theoretical Work

I am developing a unified ontological framework based on a **pre-metric tensological field**, defined over a non-geometric temporal base. This field encodes the regimes of ontological actualization and allows for the reconstruction of **metric, matter, and causality** as stabilized projections of a fundamental dynamic process. Spacetime is no longer treated as a foundation, but as an **emergent effect**, and the present is modeled as a **local maximum of ontic intensity** within a stratified field of actualization. This model articulates **Ontic Structural Realism**, complex systems ontology, and **quantization without Hilbert space**, offering a new approach to time, physical laws, and the structure of reality.

Research Experience

March 2023 — Research Internship, Centre for Materials Science, Saint-Brieuc

- Conducted philosophical interviews with experimental scientists
- Analyzed methodological reflexivity and implicit epistemological assumptions
- Designed two questionnaires (thought experiments & critical approaches)

Academic Skills

- Conceptual analysis, formal logic, and epistemology of science
- Reading, understanding, and synthesizing complex scientific literature (FR/EN)
- Advanced academic writing in French and English
- Collaborative work, mentoring, and reviewing of academic projects
- Languages: French (native), English (academic proficiency, written and read)
- Autonomous research, academic productivity, theoretical creativity
- Broad intellectual curiosity across philosophy and science
- Strong work ethic and ability to acquire new competencies efficiently

Publication and Submission Tracker

Platform	Title	Status	Type	Submission Date	Visibility
PhilArchive	The Ontological Algorithm	Published	Preprint	2025-05-21	Public
PhilArchive	Existence Without Being	Under Review	Preprint	2025-05-21	Pending approval
PhilSci Archive	Black Holes without Singularities	Under Review	Preprint	2025-05-22	Pending approval
PhilSci Archive	Past Truth Without Past Being	Under Review	Preprint	2025-05-21	Pending approval
PhilSci Archive	Presentism and the Malament Theorem	Under Review	Preprint	2025-05-21	Pending approval
PhilSci Archive	Crisis of Scientific Objectivity	Under Review	Preprint	2025-05-21	Pending approval
PhilSci Archive	Beyond Geometry and Matter	Under Review	Preprint	2025-05-21	Pending approval
HAL	Time as Ontological Operator	Under Moderation	Preprint	2025-05-21	Pending approval
HAL	Objectivity Without Intelligibility	Under Moderation	Preprint	2025-05-21	Pending approval
Foundations of Physics	Entanglement as Cross-Activation	Editorial Assignment	Peer-reviewed	2025-05-21	Submitted
Foundations of Physics	From Hilbert Space to Functional Actualization	Editorial Assignment	Peer-reviewed	2025-05-21	Submitted
Foundations of Physics	The Present as Ontological Acme	Editorial Assignment	Peer-reviewed	2025-05-21	Submitted
Foundations of Physics	Structural Realism Beyond Static Form	Editorial Assignment	Peer-reviewed	2025-05-21	Submitted
Foundations of Physics	Emergence from a Non-Metric Substrate	Editorial Assignment	Peer-reviewed	2025-05-21	Submitted
Foundations of Physics	What Kind of Entity is a Quantum Field	Editorial Assignment	Peer-reviewed	2025-05-21	Submitted
SHPS	Functional Quantization Without Hilbert Spaces	With Editor	Peer-reviewed	2025-05-21	Submitted
SHPS	Noether Currents Without Spacetime	With Editor	Peer-reviewed	2025-05-20	Submitted
Synthese	From Primitive Identity to Structural Individuation	New Submission	Peer-reviewed	2025-05-20	Submitted
Synthese	The Present as Ontological Acme	New Submission	Peer-reviewed	2025-05-20	Submitted
Erkenntnis	Is Non-Contradiction Enough?	Editor Assigned	Peer-reviewed	2025-05-21	Submitted
JMP	Path Integral for Symmetric Tensor Fields without Metric Structure	Associate Editor Assigned	Peer-reviewed	2025-05-19	Submitted