Enrico Cinti

Curriculum Vitae

Institute for Logic, Language, and Computation
University of Amsterdam
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Academic Positions

2026 - present **PostDoc Researcher**, Institute for Logic, Language, and Computation/Institute of Physics, University of Amsterdam, Amsterdam, The Netherlands

Project: *Emergence of Time from Chaos in Operator Algebras*

PI: Dr. Sebastian De Haro (UvA)

2024- 2026 **PostDoc Researcher**, Department of Philosophy, University of Geneva, Geneva, Switzerland

Project: *Space, Time, and Causation in Quantum Gravity*

PI: Dr. Baptiste Le Bihan (University of Geneva)

2024- 2025 **Guest Member**, Institute for Logic, Language, and Computation, University of Amsterdam, Amsterdam, The Netherlands

2023- 2024 **PostDoc Researcher**, Institute for Logic, Language, and Computation/Institute of Physics/Dutch Institute for Emergent Phenomena, University of Amsterdam, Amsterdam, The Netherlands

Project: *Is There Space and Time for Experimental Philosophy?*

PI: Dr. Sebastian De Haro (UvA), Prof. Mark Golden (UvA)

Education

2019-2023 **PhD Philosophy (double degree)**, Department of Philosophy, University of Geneva, Geneva, Switzerland

Thesis Title: *Breaking the Fabric: on AdS/CFT, Humeanism, and the Fate of Spacetime Inside Black Holes*

Supervisor: Prof. Christian Wüthrich (University of Geneva)

2019-2023 **PhD Research Methods in Science and Technology (double degree)**, Department of Pure and Applied Sciences, Università di Urbino Carlo Bo, Urbino, Italy

Thesis Title: *Breaking the Fabric: on AdS/CFT, Humeanism, and the Fate of Spacetime Inside Black Holes*

Supervisor: Prof. Vincenzo Fano (Università di Urbino Carlo Bo)

Sep-Oct 2022 **Visiting PhD Student**, Institute of Physics/Institute of Language, Logic, and Computation, UvA, Netherlands

Sponsor: Dr. Sebastian De Haro (UvA)

2017-2019 **M.A. Philosophy**, Department of Philosophy, Università degli Studi di Milano, Milano, Italy

Thesis Title: *Time and Change in Loop Quantum Gravity*

Supervisors: Prof. Giuliano Torrengo (Università degli Studi di Milano), Prof. Christian Wüthrich (University of Geneva)

Final Mark: 110 cum laude/110

May 2019 **Visiting M.A. Student**, Geneva Symmetry Group, University of Geneva, Switzerland

Sponsor: Prof. Christian Wüthrich (University of Geneva)

2014-2017 **B.A. Philosophy**, Department of Philosophy, Universita' degli Studi di Milano, Milano, Italy

Thesis Title: *Branching Time and the Assertion Problem: Structure and Solutions*

Supervisor: Prof. Giuliano Torrengo (Università degli Studi di Milano)

Final Mark: 110 cum laude/110

Areas of Specialization and Competence

AOS Philosophy of Science, Philosophy and Foundations of Physics, Metaphysics of Physics

AOC Logic, Metaphysics, Philosophy of Mathematics, Philosophy of Time

Books

2026 *The Philosophy of Dualities*, Cambridge University Press (Cambridge Elements), Cambridge, UK (joint work with Sebastian De Haro)

2022 *I Paradossi dei Buchi Neri: Una Spiegazione Elementare per Comprendere l'Universo* (in Italian, English title: *Black Hole Paradoxes: an Elementary Explanation to Understand the Universe*), Carocci Editore, Roma, Italia, ISBN: 9788829012473 (joint work with Marco Sanchioni)

Articles

(15) - 2025 *Non-Relativistic Background Independence and the Gauging of Spacetime Symmetries*, The British Journal for the Philosophy of Science, https://doi.org/10.1086/739787 (joint work with Nicola Bamonti and Marco Sanchioni).

(14) - 2025 *Quo Vadis Wheeler-DeWitt Time?*, Philosophy of Science, https://doi.org/10.1017/psa.2025.10146 (joint work with Nicola Bamonti and Marco Sanchioni).

(13) - 2025 *The Unbearable Indefiniteness of Spacetime*, Foundations of Physics, https://doi.org/10.1007/s10701-025-00819-4 (joint work with Cristian Mariani and Marco Sanchioni).

(12) - 2025 *Bridging Supersymmetry and the Spin-Statistics Theorem: A Quest for Emergence*, Synthese, https://doi.org/10.1007/s11229-024-04895-3 (joint work with Marco Sanchioni).

(11) - 2025 *Peeking Inside the Black Hole: Philosophical Considerations on the AMPSS Paradox and its Resolution*, Foundations of Physics, https://doi.org/10.1007/s10701-025-00861-2 (joint work with Marco Sanchioni).

(10) - 2025 *Reichenbach's Forgotten Argument*, Foundations of Physics, https://doi.org/10.1007/s10701-025-00870-1 (joint work with Alberto Corti, Vincenzo Fano, and Marco Sanchioni).

(9) - 2025 *Holographic Strange Metals for Philosophers and Physicists*, Foundations of Physics, https://doi.org/10.1007/s10701-025-00907-5 (joint work with Sebastian De Haro, Mark Golden, Umut Gürsoy, and Henk Stoof).

(8) - 2024 *Beyond the Quantum Membrane Paradigm: A Philosophical Analysis of the Structure of Black Holes in Full QG*, Foundations of Physics, https://doi.org/10.1007/s10701-024-00758-6 (joint work with Marco Sanchioni).

(7) - 2024 *SUSY, Spin Statistics, and all That...*, British Journal for the Philosophy of Science, https://doi.org/10.1086/730610 (joint work with Marco Sanchioni).

(6) - 2024 *Time, Spacetime, and F-Theory*, in *Time and Timelessness in Fundamental Physics and Cosmology: Historical, Philosophical, and Mathematical Perspectives*, Cham: Springer Nature Switzerland, https://doi.org/10.1007/978-3-031-61860-4_10 (joint work with Marco Sanchioni).

(5) - 2024 *Fourier Duality, Underdetermination, and the Uncommon Common Core*, British Journal for the Philosophy of Science, https://doi.org/10.1086/730421 (joint work with Daniel Grimmer and Rasmus Jaksland).

(4) - 2022 *On Entanglement as a Relation*, European Journal for Philosophy of Science, https://doi.org/10.1007/s13194-021-00439-5 (joint work with Alberto Corti and Marco Sanchioni).

(3) - 2021 *Careful with Those Scissors, Eugene! Against the Observational Indistinguishability of Spacetimes*, Studies in History and Philosophy of Science, https://doi.org/10.1016/j.shpsa.2021.07.007 (joint work with Vincenzo Fano).

(2) - 2021 *Humeanism in Light of Quantum Gravity*, Synthese, https://doi.org/10.1007/s11229-021-03270-w (joint work with Marco Sanchioni).

(1) - 2021 *The Devil in the (Implicit) Details: Philosophical Considerations on the AMPS Paradox and its Resolution*, International Journal of Theoretical Physics, https://doi.org/10.1007/s10773-021-04901-1 (joint work with Marco Sanchioni).

Invited Contributions

(4) - 2021 *Vedere l'Invisibile: Come Penrose Dimostrò Matematicamente la Natura Fisica dei Buchi Neri* (in italian, english title:*Seeing the Invisible: How Penrose Mathematically Showed the Physical Nature of Black Holes*, Nuova Lettera Matematica, N.4, Palermo University Press, ISSN: 2724-0576 (joint work with Marco Sanchioni)

(3) - 2021 *Phenomenological Strings and String Phenomenology*, Experience, Abstraction and the Scientific Image of the World. Festschrift for Vincenzo Fano, eds. C. Calosi, P. Graziani, D. Pietrini and G. Tarozzi, Milan, Franco Angeli, ISBN: 978-88-351-2139-8 (joint work with Marco Sanchioni)

(2) - 2021 *Le Scienze come Guida Filosofica nella Ricerca e nella Didattica* (in italian, english title:*Science as a Guide for Philosophy in Research and Teaching*, Proceedings of the 2020 SFI (Società Filosofica Italiana) Conference, ETS Pisa, ISBN: 9788846762757 (joint work with Vincenzo Fano)

(1) - 2019 *Scienza e Matematica: il Caso dell'Indispensabilità* (in italian, english title: *Science and Mathematics: the Case of Indispensability*), Proceedings of the Conference *Lost in Physics and Metaphycs: Questioni di Realismo Scientifico*, ed. G.M. D'Ariano, Istituto Lombardo di Scienze e Lettere, PagePress: Milan, ISBN: 978-8898634224

Book Reviews

(1) - 2016 Review of *The Ultimate Star Wars and Philosophy: You Must Unlearn What You Have Learned* (with Fabio Ceravolo and Dario Mortini), RIFAJ-Rivista Italiana di Filosofia Analitica Junior, 7:1

Conferences, Talks, and Presentations

September 2025 *A Taxonomy of Black Hole Ontologies Thorugh the Firewall Paradox*, Philosophy of Astronomy & Cosmology Conference, University of Utrecht

August 2025 *Spacetime and Matter between Supersymmetry and Supergravity*, Spacetime and Matter Conference, University of Utrecht

August 2025 *Determinism Beyond Spacetime*, EPSA 2025, University of Groningen

July 2025 *Symmetries, Causality, and Emeergent Spacetime*, Metaphysics Beyond Spacetime 2025, Champery

May 2024 *Quantum Location Beyond Quantum Mechanics*, Space, Time, and Location, Part II, University of California, Davis

April 2024 *Holographic Strange Metals for Philosophers and Physicists*, X International Workshop on Quantum Mechanics and Quantum Information, University of Roma Tre

April 2024 *Holographic Strange Metals for Philosophers and Physicists*, 1st History and Philosphy of Physics in the Netherlands Workshop, University of Utrecht

Sep 2023 *Indeterminacy Across the Horizon*, SILFS Triennial Conference, University of Urbino

July 2023 *No Boundary for Time*, IAPT8 Conference, University of Sydney

July 2023 *Spacetime ≠ Entanglement in AdS/CFT*, 21st European Confenrence on Foundations of Physics, University of Bristol

June 2023 Commentator on Francesca Vidotto's talk *Relational Loop Quantum Cosmology*, Metaphysics Beyond Spacetime 2023, Ovronnaz

May 2023 *Spacetime Emergence Inside Black Holes*, LMP Conference, University of Western Ontario

Nov 2022 *Spacetime Emergence Inside Black Holes*, PROTEUS Seminar, Università degli Studi di Milano

Sep 2022 *Spacetime Emergence Inside Black Holes*, DIEP Seminar, UvA

July 2022 *On the Complexity of Evaporating Black Holes*, Global Spacetime Structure in Semi-classical Gravity, University of Munich (accepted and refereed, cancelled due to illness)

July 2022 *Simultaneity in Non-Relativistic Quantum Gravity* (joint work with Marco Sanchioni), IAPT7 Conference, University of Barcelona

June 2022 *On Entanglement as a Relation* (joint work with Alberto Corti, Marco Sanchioni), **Keynote Talk**, 5th SILFS Postgraduate Conference, University of Milan

June 2022 Commentator on Elena Castellani's talk *S-duality: Metaphysical Refections*, Metaphysics Beyond Spacetime 2022, Ovronnaz

May 2022 *Lack of Value Definiteness in Quantum Gravity* (joint work with Cristian Mariani, Marco Sanchioni), Geneva Symmetry Group Seminars, University of Geneva

Apr 2022 *Simultaneity in Non-Relativistic Quantum Gravity* (joint work with Marco Sanchioni), ILMPS Conference, Polytechnic University of Milan

Mar 2022 *Reichenbach's Forgotten Argument* (joint work with Alberto Corti, Vincenzo Fano, Marco Sanchioni), Storia della Cosmologia: Visioni dell'Universo da Galileo ai Giorni Nostri, Università di Urbino Carlo Bo

Mar 2021 *On Entanglement as a Relation* (joint work with Alberto Corti, Marco Sanchioni), Geneva Symmetry Group Seminars, University of Geneva

Feb 2021 *Complementarity Lost and regained: ER=EPR vs. Firewalls* (joint work with Marco Sanchioni), Philosophy/Physics Interdisciplinary Meeting, Università di Urbino Carlo Bo

July 2020 *Complementarity Lost and regained: ER=EPR vs. Firewalls* (joint work with Marco Sanchioni), A New Perspective on the Paradoxes of Modern Physics, Università di Urbino Carlo Bo

April 2020 *Careful with those Scissors, Eugene!* (joint work with Vincenzo Fano), Synergia Department Seminar, Università di Urbino Carlo Bo

Dec 2019 *Understanding Non Commutative Geometry* (joint work with Marco Sanchioni), Synergia Department Seminar, Università di Urbino Carlo Bo

Jan 2018 *Scienza e Matematica: il Caso dell'Indispensabilità* (in italian, english title: *Science and Mathematics: the Case of Indispensability*), Lost in Physics and Metaphycs: Questioni di Realismo Scientifico, Istituto Lombardo - Accademia di Scienze e Lettere

Oct 2017 *Emergent Gravity and Emergent Spacetime* (joint work with Cristian Mariani), Emergence: Epistemological and Metaphysical Issues, University of the Basque Country

Sep 2017 *Emergent Gravity and Emergent Spacetime* (joint work with Cristian Mariani), CPT Brainstorming, Università degli Studi di Milano

Sep 2016 *Concrete Worlds And Quantum Possibilia*, SOPhiA 2016, University of Salzburg (accepted and refereed, cancelled due to illness)

July 2016 *The Boundary Between Ground And Cause*, 5th Hamburg Summer School In Philosophy With Jonathan Schaffer, University of Hamburg (presentation)

Grants, Scholarships, and Awards

2023 **EPSA Prize for Best Graduate Student Paper published in EJPS**, for the paper *Entanglement as a Relation*, EPSA - European Philosophy of Science Association

2022 **Blaumann Foundation Grant**, 4000€ for the organization of the conference *Quantum Gravity With(out) Experiments? Epistemology at the Edge of Physics* (joint project with Marco Sanchioni)

2022 **Giulio Giorello Prize for the Philosophy of Science** for *Entanglement as a Relation*, SILFS - Società Italiana di Logica e Filosofia della Scienza (*Italian Society for Logic and Philosophy of Science*)

2019-2022 **PhD Scholarship**, 45000€ Università di Urbino Carlo Bo, Urbino, Italy

2019-2022 **Visiting PhD Scholarship**, 11000€ Università di Urbino Carlo Bo, Urbino, Italy

2019-2022 **Research Support Award**, 4000€ Università di Urbino Carlo Bo, Urbino, Italy

2016 **Study Grant**, 500€ University Excellence Grant, Università degli Studi di Milano, Milano, Italy

Teaching

2026–27 *Philosophy of Science*, M.Sc. Course, Institute of Physics, University of Amsterdam

2026–27 *Philosophy of Physics*, M.Sc. Course, Institute of Physics, University of Amsterdam

2024 *Lecture Notes*, Research Seminar on von Neumann Algebras, Holography, and Cosmology, Institute of Physics & Institute for Logic, Language, and Computation, University of Amsterdam

2023 *Philosophy of Physics*, M.A. Course, Institute of Physics, University of Amsterdam

2023 *Philosophy of Science*, M.A. Course, Institute of Physics, University of Amsterdam

2022 *Philosophical Foundations of Black Hole Physics* (12 hrs), M.A. Course, Physics Department, University of Bologna (within Prof. Vincenzo Fano's M.A. Course on Philosophical Foundations of Physics)

2021 *Philosophy of Dualities* (10 hrs), M.A. Course, Physics Department, University of Bologna (within Prof. Vincenzo Fano's M.A. Course on Philosophical Foundations of Physics)

2021 *From Classical to Quantum Logic* (10 hrs), B.A. Course, Department of Philosophy, University of Urbino

2020 *Philosophical Foundations of Black Hole Physics* (12 hrs), M.A. Course, Physics Department, University of Bologna (within Prof. Vincenzo Fano's M.A. Course on Philosophical Foundations of Physics)

Supervision of Junior Research

2026– Simone Testino, M.A. Thesis (co-supervisor), M.A. Logic, ILLC, University of Amsterdam

2024/2025 Simone Testino, M.A. Research Project on *Structuralism and Categories: Theoretical Equivalence in Philosophy of Science and Physics*, M.A. Logic, ILLC, University of Amsterdam

2023/2024 Luuk Kuiper, B.A. Thesis on *RG Flow as the Arrow of Time in Holographic Cosmology*, B.A. Physics, Amsterdam University College, University of Amsterdam

2022/2023 Giulia Avato, M.A. Thesis on *Philosophical Issues in the Black Hole Information Paradox*, M.A. Physics, University of Bologna

Events Organized

2025 **Organizer**, Philosophy and Metaphysics of String Theory, University of Geneva

Organizer. HPP-NL Workshop, University of Amsterdam

2023 **Organizer**, Geneva-Lausanne Joint Philosophy of Physics Conference, University of Geneva/University of Lausanne

Organizer, Quantum Gravity With(out) Experiments? Epistemology at the Edge of Physics, Università di Urbino Carlo Bo, Speakers: Karen Crowther (University of Oslo), Irene Valenzuela (CERN), Jay Armas (University of Amsterdam), Richard Dawid (University of Stockholm), Daniele Oriti (University of Munich)

School Organizer, XXVI International Summer School in Philosophy of Physics - Philosophy of Dark Matter, Università di Urbino Carlo Bo, Speakers: Francesca Vidotto (Western University), Piero Ullio (SISSA), Niels Martens (Bonn), Siska De Baerdemaeker (Stockholm)

2022/2023 **Organizer**, Synergia Department Seminar, 2022/2023 session, Synergia Research Group, Università di Urbino Carlo Bo

2022 **School Organizer**, XXV International Summer School in Philosophy of Physics - Dualities Between Physics and Philosophy, Università di Urbino Carlo Bo, Speakers: Johanna Erdmenger (Würzburg), Sebastian De Haro (UvA), Jonathan Bain (NYU)

2021/2022 **Organizer**, Synergia Department Seminar, 2021/2022 session, Synergia Research Group, Università di Urbino Carlo Bo

2021 **School Organizer**, XXIV International Summer School in Philosophy of Physics - Black Holes and the Information Loss Paradox, Università di Urbino Carlo Bo, Speakers: Daniel Harlow (MIT), Erik Curiel (LMU), Christian Wüthrich (Geneva), Patricia Palacios (Salzburg), Sebastian De Haro (UvA)

2020/2021 **Organizer**, Synergia Department Seminar, 2020/2021 session, Synergia Research Group, Università di Urbino Carlo Bo

2020 **Organizer**, A New Perspective on the Paradoxes of Modern Physics, Università di Urbino Carlo Bo

Organizer, XXIII International Summer School in Philosophy of Physics - Philosophy of Quantum Computation, Università di Urbino Carlo Bo

2019/2020 **Organizer**, Synergia Department Seminar, 2019/2020 session, Synergia Research Group, Università di Urbino Carlo Bo

2018 **Co-Organizer**, OMS Ontoformat Metaphysical Seminar, 2018 session (Main Organizer: Dr. Valerio Buonomo), Ontoformat Research Group (Coordinator: Prof. Paolo Valore)

2017 **Co-Organizer**, OMS Ontoformat Metaphysical Seminar, 2017 session (Main Organizer: Dr. Valerio Buonomo), Ontoformat Research Group (Coordinator: Prof. Paolo Valore)

Service to the Profession

Referee Journal: *Philosophical Review, British Journal for Philosophy of Science, European Journal for Philosophy of Science, Erkenntnis, Studies in History and Philosophy of Science, Foundations of Physics, Synthese, General Journal for Philosophy of Science, Mind&Language, Foundations of Science, Isonomia, APhEx*

Conference: *Metaphysics of Quantum objects* (University of Geneva)

Professional Memberships

Member, Geneva Symmetry Group, University of Geneva, Geneva, Switzerland

Member, Synergia, Università di Urbino Carlo Bo, Urbino, Italy

Associate Member, Centre for Philosophy of Time, Università degli Studi di Milano, Milano, Italy

Member, BSPS - British Society for Philosophy of Science

Member, EPSA - European Philosophy of Science Association

Member, PSA - Philosophy of Science Association

Member, SILFS - Società Italiana di Logica e Filosofia della Scienza (*Italian Society for Logic and Philosophy of Science*)

Member, ISQG - International Society for Quantum Gravity

Member, Philosophy of Physics Society

Member, SMS - Society for the Metaphysics of Science

Personal Information

Date of Birth 15/01/1995

Nationality Italian

Skills and Languages

Italian native speaker

English excellent writing and speaking abilities

French good writing and speaking abilities

Russian elementary writing and speaking abilities

Latin good translation abilities

Ancient Greek good translation abilities

Software LaTeX, Microsoft Office, PC/Mac, JustNN (basic knowledge), R (basic knowledge)

References

References available upon request