

RESUME

August 6, 2025



Dustin Lazarovici

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ACADEMIC DEGREES

Université de Lausanne	Lausanne, Switzerland
PH.D. PHILOSOPHY	Sep. 2017 - Jun. 2020
"Typicality as a Way of Reasoning in Physics and Metaphysics", under the supervision of Prof. Michael Esfeld.	
Ludwig-Maximilians-Universität	Munich, Germany
DR. RER. NAT. MATHEMATICS, SUMMA CUM LAUDE	Jan. 2012 - Dec. 2015
"Mean field limits for charged particles", under the supervision of Prof. Detlef Dürr.	
Ludwig-Maximilians-Universität	Munich, Germany
DIPL. MATHEMATICS, WITH DISTINCTION	Apr. 2005 - Dec. 2011
Ludwig-Maximilians-Universität	Munich, Germany
DIPL. PHYSICS, WITH DISTINCTION	Oct. 2004 - Jan. 2011

ACADEMIC APPOINTMENTS

Technion - Israel Institute of Technology, Department of Humanities and Arts	Haifa, Israel
ASSISTANT PROFESSOR (SENIOR LECTURER)	Mar. 2022 - present
My main research area is Philosophy of Physics.	
Université de Lausanne	Lausanne, Switzerland
POST-DOC / ASSISTANT DIPLOMÉ	Aug. 2021 - Feb. 2022
Institute de Philosophie	
Université de Lausanne	Lausanne, Switzerland
POST-DOCTORAL FELLOW	Jan. 2016 - Jul. 2017
Feodor Lynen Research Fellowship of the Alexander von Humboldt Foundation	

RESEARCH INTERESTS

Philosophy of Physics (Foundations of Quantum Mechanics, Foundations of Statistical Mechanics, Arrow of Time)
Philosophy of Science (Laws of Nature, Non-causal Explanations, Epistemic Norms)

TEACHING

2024-25	Humanistic Technology , Graduate Seminar, Instructor	Technion
2023-25	Foundations of Quantum Mechanics , All levels, Main teacher	Technion
2022-25	Philosophy of Time and Space , All levels, Main teacher	Technion
2022-25	Milestones of Mathematical Thought , All levels, Main teacher	Technion
2020-22	Philosophical perspectives on the exact sciences , TA with participation in teaching	EPFL Lausanne
2016-20	Philosophy, Epistemology and History of Science , TA with participation in teaching	EPFL Lausanne
2019	Weltbilder der Quantenmechanik , Summer Academy (2 weeks), Co-instructor	Studienstiftung
2018	Foundations of Mathematics for Philosophers , Extracurricular Seminar	UNIL Lausanne

TECHNION, DEPARTMENTAL AND OTHER ACTIVITIES

- 2023- **Member of the Search Committee**, Humanities and Arts, Technion
- 2022- **Member of the Graduate Committee**, Humanities and Arts, Technion
- 2022- **Member of the Teaching Committee**, Humanities and Arts, Technion

ACADEMIC PROFESSIONAL ACTIVITIES

- 2017-25 **Journal Referee**, Acta Analytica, Axioms, The British Journal for the Philosophy of Science, Canadian Journal of Physics, Communication in Mathematical Physics, Critica-Revista Hispanoamericana de Filosofia, Entropy, Erkenntnis, European Journal for Philosophy of Science, European Journal of Physics, The European Physical Journal, Europhysics Letters, Fluctuation and Noise Letters, Foundations of Physics, Foundations of Science, Frontiers in Psychology, Frontiers in Psychology, IEEE Access, IEEE Transactions on Information Theory, Journal for General Philosophy of Science, Journal of Philosophical Logic, Journal of Physics A, Journal of Statistical Physics, Philosophy of Physics, The Philosophical Quarterly, Philosophy of Science, Physica Scripta, Physics, Proceedings of the Royal Society A, Quantum Reports, Studies in History and Philosophy of Modern Physics, Scientific Reports, Synthese, Universe
- 2025 **Guest Editor**, Special Issue “Quantum Foundations: 100 Years of Born’s Rule,” *Entropy*
- 2025 **Reviewer for Grant Proposal**, Hungarian NRD Office (NKFIH)
- 2023-24 **Reviewer for Book Proposals**, Cambridge Elements, Oxford University Press, World Scientific
- 2024 **Reviewer for Grant Proposal**, Israeli Science Foundation (ISF)
- 2021 **Reviewer for Grant Proposal**, National Science Foundation (NSF)

FELLOWSHIPS, AWARDS AND HONORS

- 2022-24 **Women’s Division Career Advancement Chair**, Technion
- 2019 - **Fellow of the John Bell Institute for the Foundations of Physics**, JBI
- 2021 **Prix Arnold Reymond**, Dissertation Award of the UNIL
- 2021 **Paul Bernays Award**, Dissertation Award, Swiss Society for Logic and Philosophy of Science
- 2012-15 **PhD Scholarship**, Studienstiftung des deutschen Volkes
- 2011-12 **Young Researcher Scholarship**, Parmenides Foundation
- 2005-11 **Studienstiftung des deutschen Volkes**, German Academic Scholarship Foundation

STUDENT SUPERVISION

Postdocs

- 2022-24 **Dr. Yoav Beirach**, Leibniz and Huygens on Time Measurement (with Ohad Nachtomy) *Postdoc*
- 2023 - **Dr. Caterina Scaccia**, Humor in the Scientific Discourse on Quantum Foundations (with T. Rakedzon) *Postdoc*
- 2024 - **Dr. Christian Beck**, Project: Nonlocal Vacuum Phenomena *Postdoc*

PhD Students

- 2023 - **Bernard Nabet**, Redefining Quantum Theory in Physical Space *PhD*

GRANTS

- 2023 **ISF Personal Research Grant**, “Can Arrival Time Measurements Test Bohmian Mechanics?”
- 2023 **ISF New-Faculty Equipment Grant**, Principle Investigator
- 2019 **Volkswagen Foundation “Symposia and Summer Schools”**, Co-applicant
- 2019 **Volkswagen Foundation “Symposia and Summer Schools”**, Co-applicant
- 2019 **Swiss National Science Foundation: Doc.Mobility Fellowship**,
- 2016-17 **Feodor Lynen Research Fellowship**, Humboldt Foundation

Invited talks:

2025	Quantum Foundations: From Beables to Observables , jDPG Theory Workshop	<i>Bacharach</i>
2024	What's Wrong with Many-Worlds? , Workshop Models and Interpretations of Quantum Mechanics	<i>Trieste</i>
2024	On Gödel's Argument for the Unreality of Time , Research Seminar of the Cohn Institute	<i>Tel Aviv</i>
2024	Why the Book of Nature is Written in the Language of Mathematics , Laws of Nature Lecture Series	<i>Online</i>
2023	On the physical possibility of closed timelike curves , Conference: Gödel and Kant on Mathematics and Physics	<i>Online</i>
2022	What do Bell tests actually test? , Quantum Center Retreat Day	<i>Technion</i>
2022	Typicality as a Way of Reasoning , Laws of Nature Lecture Series	<i>Online</i>
2020	Typicality and the Arrow of Time , Oberseminar Mathematische Physik LMU	<i>Online</i>
2019	Typicality of Worlds and the Metaphysics of Laws , MAPS	<i>NYU, New York</i>
2019	Typicality vs. Humean Probability , Advanced Topics in Philosophy of Physics	<i>Rutgers University</i>
2018	The wave function in a relativistic world , Workshop: Multi-Time Wave Functions	<i>Rutgers University</i>

Contributed talks (selection):

2024	Commentator on Ryan Miller "Atomism's Quantum Problems" , 9th Annual Conference of the Society for the Metaphysics of Science	<i>Online</i>
2024	It from Bit? On the pernicious influence of "information" on physics and philosophy , Annual Conference of the Israeli Philosophical Association	<i>Haifa, IL</i>
2022	Why Everett Solved the Probability Problem , ISF research workshop: The Many-Worlds Interpretation of Quantum Mechanics	<i>Tel Aviv, IL</i>
2019	Why field theories are not theories of fields , Symposium: Particles, Fields, or both?, CLMPST	<i>Prague, CZ</i>
2018	Super-Humeanism: A starving ontology , SMS 4th Annual Conference	<i>Milano, IT</i>
2017	Arrows of Time without a Past Hypothesis , Conference: The Second Law	<i>Munich, GER</i>
2017	Against Fields , EPSA 17	<i>Exeter, UK</i>
2017	Against Fields , BSPS Annual Meeting	<i>Edinburgh, UK</i>
2017	Spacetime is One Whole – Priority Monism meets Structural Realism , SMS 3rd Annual Conference	<i>New York, US</i>
2017	Relativity, Nonlocality, and the Consequences , SILFS – Triennial International Conference	<i>Bologna, IT</i>

Conference organization:

2025	A Question of Time: Art, Science, Technology , Symposium	<i>Technion</i>
2022	Laws of Nature (in memory of Detlef Dürr) , Conference	<i>Munich, GER</i>
2022	The Nature of Entropy II: Arrow of Time , Summer School	<i>Kochel, GER</i>
2021	Shape Dynamics: Achievements & Perspectives in Relational Physics , Workshop	<i>Online</i>
2019	The Nature of Entropy I: From thermodynamics to black holes , Summer School	<i>Saig, GER</i>
2018	New Topics in Quantum Foundations , Workshop	<i>Lausanne, CH</i>

Refereed papers in professional journals:

- [J1] Michael Esfeld, **Dustin Lazarovici**, Mario Hubert, and Detlef Dürr. *The ontology of Bohmian mechanics*, The British Journal for the Philosophy of Science 65(4). 2014
- [J2] **Dustin Lazarovici**. *A relativistic retrocausal model violating Bell's inequality*, Proceedings of the Royal Society A 471. 2015
- [J3] **Dustin Lazarovici** and Paula Reichert. *Typicality, Irreversibility and the Status of Macroscopic Laws*, Erkenntnis 80. 2015
- [J4] Andrea Oldofredi, **Dustin Lazarovici**, Dirk-André Deckert, and Michael Esfeld. *From the universe to subsystems: Why quantum mechanics appears more stochastic than classical mechanics*, Fluctuations and Noise Letters 15:03. 2016
- [J5] **Dustin Lazarovici**. *The Vlasov-Poisson dynamics as the mean-field limit of extended charges*, Communications in Mathematical Physics 347(1). 2016
- [J6] **Dustin Lazarovici** and Peter Pickl. *A mean-field limit for the Vlasov-Poisson system*, Archive for Rational Mechanics and Analysis 225(3). 2017
- [J7] Michael Esfeld, **Dustin Lazarovici**, Vincent Lam, and Mario Hubert. *The Physics and Metaphysics of Primitive Stuff*, British Journal for the Philosophy of Science 68. 2017
- [J8] **Dustin Lazarovici**. *Against Fields*, European Journal for Philosophy of Science 8(2). 2018
- [J9] **Dustin Lazarovici**, Andrea Oldofredi, and Michael Esfeld. *Observables and unobservables in quantum mechanics: How the no-hidden-variables theorems support the Bohmian particle ontology*, Entropy 20(5). 2018
- [J10] **Dustin Lazarovici**. *Super-Humeanism: A starving ontology*, Studies in History and Philosophy of Science Part B: Studies in History and Philosophy of Modern Physics 64. 2018
- [J11] **Dustin Lazarovici** and Mario Hubert. *How Quantum Mechanics can consistently describe the use of itself*, Scientific Reports 9:470. 2019
- [J12] **Dustin Lazarovici**. *On Boltzmann vs. Gibbs and the Equilibrium in Statistical Mechanics*, Philosophy of Science 86:4. 2019
- [J13] **Dustin Lazarovici**. *Position Measurements and the Empirical Status of Particles in Bohmian Mechanics*, Philosophy of Science 87:3. 2020
- [J14] **Dustin Lazarovici** and Paula Reichert. *The Point of Primitive Ontology*, Foundations of Physics 52. 2022
- [J15] **Dustin Lazarovici**. *How Everett Solved the Probability Problem in Everettian Quantum Mechanics*, Quantum Reports 5(2), 407-417. 2023
- [J16] **Dustin Lazarovici**. *Hidden Variables in Quantum Mechanics from the Perspective of Boltzmannian Statistical Mechanics*, Quantum Reports 6(3), 465-481. 2024
- [J17] Christian Beck and **Dustin Lazarovici**. *Relativistic Consistency of Nonlocal Quantum Correlations*, Entropy 26(7), 548. 2024
- [J18] Christian Beck and **Dustin Lazarovici**. *The POVM Theorem in Bohmian Mechanics*, Entropy 27(4), 391. 2025

Books:

- [B1] Detlef Dürr and **Dustin Lazarovici**. *Verständliche Quantenmechanik. Drei mögliche Weltbilder der Quantenphysik*, Springer-Spektrum, 229 pages. 2018
- [B2] Detlef Dürr and **Dustin Lazarovici**. *Understanding Quantum Mechanics. The World According to Modern Quantum Foundations*, Springer International Publishing, 239 pages. 2020
- [B3] **Dustin Lazarovici**. *Typicality Reasoning in Probability, Physics, and Metaphysics*, New Directions in the Philosophy of Science. Palgrave Macmillan, 374 pages. 2023

Book chapters:

- [b1] Detlef Dürr and **Dustin Lazarovici**. *Quantenphysik ohne Quantenphilosophie*, in: M. Esfeld (ed.), Philosophie der Physik. Suhrkamp. 2012
- [b2] **Dustin Lazarovici**. *Relativistic Interactions and the Structure of Time*, in: A. von Müller, T. Filk (eds.), Re-Thinking Time at the Interface of Physics and Philosophy, On thinking Vol. 4, Springer. 2015

- [b3] Contributions to: Michael Esfeld and Dirk-André Deckert with **Dustin Lazarovici**, Andrea Oldofredi, and Antonio Vassallo. *A minimalist ontology of the natural world*, Routledge. 2018
- [b4] **Dustin Lazarovici** and Paula Reichert. *Arrow(s) of Time without a Past Hypothesis*, in: V. Allori (ed.), *Statistical Mechanics and Scientific Explanation: Determinism, Indeterminism, and Laws of Nature*. World Scientific. 2020
- [b5] **Dustin Lazarovici**. *Typicality versus Humean Probabilities as the Foundation of Statistical Mechanics*, in: B. Loewer, E. Winsberg, and B. Weslake (eds.), *The Probability Map of the Universe: Essays on David Albert's Time and Chance*. Harvard University Press. 2023
- [b6] **Dustin Lazarovici**. *Why the book of nature is written in the language of mathematics*, in: A. Bassi, S. Goldstein, R. Tumulka, and N. Zanghì (eds.), *Physics and the Nature of Reality: Essays in Memory of Detlef Dürr*. Springer. 2024

Conference proceedings:

- [T1] Detlef Dürr and **Dustin Lazarovici**. *Der Dialog des Demokrit*, in: J. Nida-Rümelin and E. Özmen (eds.), *Welt der Gründe. Proceedings des XXII. Deutschen Kongresses für Philosophie*, Meiner. 2012
- [T2] **Dustin Lazarovici**. *Lost in Translation: A Comment on 'Noncommutative Causality in Algebraic Quantum Field Theory'*, in: Galavotti et al. (eds.), *New Directions in the Philosophy of Science. The Philosophy of Science in a European Perspective*, Vol. 5, Springer. 2014

Book reviews:

- [T3] **Dustin Lazarovici**. Review of *Laws of Physics* by Eddy Keming Chen, Notre Dame Philosophical Reviews. 2025. <https://ndpr.nd.edu/reviews/laws-of-physics/>
- Dustin Lazarovici**. Review of *The Meaning of the Wave Function: In Search of the Ontology of Quantum Mechanics* by Shan Gao, *International Studies in the Philosophy of Science* 31:3. 2017