



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6648

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Filosofia**

Scientist- in - charge: \_Hosni Hykel\_\_\_\_\_

[**Matías Daniel Pasqualini**]

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	Pasqualini
Name	Matías Daniel

### PRESENT OCCUPATION

Appointment	Structure
Doctoral Fellow	CONICET (National Council for Scientific and Technical Research, Argentina)

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Licentiate Degree in Philosophy (Licenciatura en Filosofía).	National University of Rosario, Argentina	2018
Degree	Bachelor's Degree in Theology (Bachiller en Teología).	Pontifical Catholic University of Argentina.	2007
Specialization			
PhD	Doctoral Student in Philosophy (Advanced).	University of Buenos Aires, Argentina	Expected to be obtained in next few months
Master	Master's Degree in Education (Máster Universitario en Formación para Profesor de Educación	San Pablo CEU University, Madrid, Spain.	2011



	Secundaria Obligatoria Bachillerato).	y		
Degree of medical specialization				
Degree of European specialization				
Other				

## REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City

## FOREIGN LANGUAGES

Languages	level of knowledge
English	Proficient

## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2020-2024	Scholarship for Doctoral Studies. Granted by CONICET (National Council for Scientific and Technical Research). Supervisor: Olimpia Lombardi
2010-2011	Scholarship for Master's Degree Studies. Granted by Fundación Universitaria San Pablo CEU (Madrid, Spain). Supervisor: Amalia Pedrero González.

## TRAINING OR RESEARCH ACTIVITY

description of activity: doctoral researcher as CONICET fellow, at University of Buenos Aires, Argentina
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## PROJECT ACTIVITY

Year	Project
2024-present	Member as Doctoral Student of the Project "The metaphysics of the laws of nature in light of the role of the principles of symmetry", funded by National Agency for Scientific and Technological Promotion (Argentina) (01-PICT 2023-2023-05-00080). Supervisor: Bruno Borge.
2024-present	Member as Doctoral Student of the Project "The problem of scientific laws in chemistry", funded by National Agency for Scientific and Technological Promotion (Argentina) (01-PICT 2023-2023-01-00477). Supervisor: Juan Camilo Martínez.
2022-present	Member as Doctoral Student of the Project "Irreversibility in quantum mechanics from a holistic perspective", funded by National Agency for Scientific and Technological Promotion



	(Argentina) (01-PICT 2023-2023-03-00075). Supervisor: Sebastian Fortin
2019-present	Member of the 'Buenos Aires Philosophy of Science Group', based in the Faculty of Philosophy and the Faculty of Exact and Natural Sciences of the University of Buenos Aires. Group directed by Olimpia Lombardi, Senior Researcher at CONICET.
2021-2023	Member as Doctoral Student of the Triannual Project "Tres problemas filosóficos en la fundamentación de la física: interpretación de la mecánica cuántica, irreversibilidad y relaciones interdisciplinarias" (Three philosophical problems in the foundation of physics: interpretation of quantum mechanics, irreversibility and interdisciplinary relationships), funded by National Council for Scientific and Technical Research (CONICET) (PIP 11220200100483CO). Supervisor: Sebastian Fortin.
2020-2023	Member as Doctoral Student of the Project "The Cosmological Origin of the Arrow of Time", funded by John Templeton Foundation (Grant ID 61785). Supervisors: Olimpia Lombardi and Sebastian Fortin.
2020-2021	Member as Doctoral Student of the Triannual Project "La interpretación de la mecánica cuántica y de sus relaciones con otros dominios teóricos y disciplinarios" (The interpretation of quantum mechanics and its relationships with other theoretical and disciplinary domains), funded by Fund for Scientific and Technological Research (FONCYT) and National Agency for Scientific and Technological Promotion (PICT-2018-04519). Supervisor: Olimpia Lombardi.
2016-2019	Assistant Student of Epistemology and History of Natural and Formal Sciences, National University of Rosario. Research project: "Interpretación filosófica de la física cuántica y su incompatibilidad con los principios de la física relativista" (Philosophical interpretation of quantum physics and its incompatibility with the principles of relativistic physics). Supervisor: Javier Castro Albano.
2018	Member as Undergraduate Student of the Project "Lógica, Ciencia y Análisis Filosófico" (Logic, Science and Philosophical Analysis). National University of Rosario. Supervisors: Sandra Lazzer and Javier Castro Albano.

## PATENTS

Patent

## CONGRESSES AND SEMINARS

Date	Title	Place
March 2024	The Metaphysics of Quantum Entanglement from Different Perspectives: Pluralism, Structuralism, Monism, and Coherentism	Fourth Chilean Conference on the Philosophy of Physics. Pontificia Universidad Católica de Chile. Santiago de Chile
October 2023	Ideas para una ontología modal de relaciones para la mecánica cuántica (Ideas for a modal ontology of relations for quantum mechanics)	IV Jornadas de Fundamentos, Historia y Filosofía de la Física
September 2023	Setting Limits To Emergence: The Case of Phonons.	The 9th biennial meeting of the European Philosophy of Science Association, EPSA23. Belgrade. In collaboration with Sebastian Fortin
July 2023	Quantum time reduced to interaction	17th CLMPST, International Congress on Logic,



	relations	Methodology and Philosophy of Science and Technology. Buenos Aires. In collaboration with Sebastian Fortin
July 2023	Phonons as a case of intra-domain pluralism compatible with reduction	17th CLMPST, International Congress on Logic, Methodology and Philosophy of Science and Technology. Buenos Aires. In collaboration with Sebastian Fortin
December 2022	Possibility and Time in Quantum Mechanics	Third Chilean Conference on the Philosophy of Physics. Pontificia Universidad Católica de Chile. Santiago de Chile
November 2022	Modality and the Dual Notion of Time in Quantum Mechanics	XI Conference on Quantum Foundations. Universidad Nacional de Córdoba, Argentina
October 2022	Partículas trans: Un punto de vista ontológico (Trans-particles: an ontological perspective)	III Jornadas de Fundamentos, Historia y Filosofía de la Física. In collaboration with Sebastian Fortin
October 2022	Posibilidad y Tiempo en Mecánica Cuántica (Possibility and Time in Quantum Mechanics)	III Jornadas de Fundamentos, Historia y Filosofía de la Física. In collaboration with Sebastian Fortin
December 2021	A priori relativizado y simetrías: hacia una forma no realista de necessitarismo (Relativized a priori and symmetries: towards a non-realistic form of necessitarianism)	Debates contemporáneos en Filosofía de las Ciencias. Universidad Nacional de la Patagonia San Juan Bosco, Argentina
November 2021	The relativity of quantum mechanics statistics (Poster).	X Conference on Quantum Foundations. Universidad de Buenos Aires, Argentina
October 2021	La interpretación modal-Hamiltoniana y la naturaleza relacional del tiempo (The modal-Hamiltonian interpretation and the relational nature of time).	XXI Jornadas Rolando Chuaqui Kettlun Filosofía y Ciencias. Universidad de Santiago de Chile. In collaboration with Sebastian Fortin
October 2021	Una ontología de propiedades para la mecánica cuántica. El caso de los cobosones (An ontology of properties for quantum mechanics. The case of cobosons).	V Congreso Nacional de Doctorandos en Filosofía. Pontificia Universidad Católica de Chile
September 2021	Tiempo relacional en la interpretación modal-Hamiltoniana (Relational time in modal-Hamiltonian interpretation).	II Jornadas de Fundamentos, Historia y Filosofía de la Física, Universidad de Buenos Aires, Argentina
April 2021	Partículas transestadísticas: fermiones/bosones en una ontología de propiedades (Trans-statistical particles: fermions/bosons in a property ontology).	Seminario de Indistinguibilidad Cuántica: Fundamentos y Aplicaciones. In collaboration with Sebastian Fortin
December 2020	El giro lingüístico y los fundamentos de la relatividad especial (The linguistic turn and the foundations of special relativity)	I Jornadas de Fundamentos, Historia y Filosofía de la Física. In collaboration with Javier Castro Albano
August 2018	La relatividad especial, el inicio de una revolución científica (Special relativity, the beginning of a scientific revolution).	IV Jornadas de Filosofía de la Universidad Nacional de Rosario, Argentina
August	La selección natural, una idea	III Jornadas de Filosofía de la Universidad



2017	evolutivamente bien adaptada (Natural selection, an evolutionarily well-adapted idea).	Nacional de Rosario, Argentina
October 2016	Repensar el a priori a partir del debate entre Carnap y Quine (Rethinking the a priori from the debate between Carnap and Quine).	Tercer Coloquio CEFILE (Centro de Estudios de Filosofía del Lenguaje). Universidad Nacional de Rosario, Argentina. In collaboration with Pablo Farina Raposo, María Betania Parodi y Maíra Pouey Bragos

## PUBLICATIONS

Articles in reviews		
“Una revisión de la noción de coherencia desde la perspectiva de la lógica definida como secuencia de nociones de consecuencia” (A Review of the Notion of Coherence from the Perspective of Logic defined as a Sequence of Notions of Consequence). <i>Análisis Filosófico</i> , 44(1), 105-116. Available in: < <a href="https://doi.org/10.36446/af.e956">https://doi.org/10.36446/af.e956</a> >. [2024]		
“Una ontología modal de relaciones para la mecánica cuántica” (A modal ontology of relations for quantum mechanics). <i>Culturas Científicas</i> , 4(1), 53-78. Available in: < <a href="https://revistas.usach.cl/ojs/index.php/culturas/article/view/6151">https://revistas.usach.cl/ojs/index.php/culturas/article/view/6151</a> >. [2023]		
“Trans-estadística cuántica desde una ontología de propiedades” (Quantum trans-statistics from an ontology of properties). <i>Revista Colombiana De Filosofía De La Ciencia</i> , 23(47). In collaboration with Sebastian Fortin. Available in: < <a href="https://revistas.unbosque.edu.co/index.php/rcfc/article/view/4186">https://revistas.unbosque.edu.co/index.php/rcfc/article/view/4186</a> >. [2023]		
“Possibility and Time in Quantum Mechanics”. <i>Entropy</i> 24, no. 2: 249. In collaboration with Olimpia Lombardi and Sebastian Fortin. Available in: < <a href="https://doi.org/10.3390/e24020249">https://doi.org/10.3390/e24020249</a> >. [2022]		
“Relational Event-Time in Quantum Mechanics”. <i>Foundations of Physics</i> 52, 10. In collaboration with Sebastian Fortin and Olimpia Lombardi. Available in: < <a href="https://doi.org/10.1007/s10701-021-00528-8">https://doi.org/10.1007/s10701-021-00528-8</a> >. [2022]		
“Trans-statistical Behavior of a Multiparticle System in an Ontology of Properties”. <i>Foundations of Physics</i> 52, 70. In collaboration with Sebastian Fortin. Available in: < <a href="https://doi.org/10.1007/s10701-022-00590-w">https://doi.org/10.1007/s10701-022-00590-w</a> >. [2022]		
“La interpretación modal-hamiltoniana y la naturaleza relacional del tiempo” (The modal-Hamiltonian interpretation and the relational nature of time). <i>Crítica. Revista Hispanoamericana De Filosofía</i> 54(161): 3-42. In collaboration with Sebastian Fortin. Available: < <a href="https://doi.org/10.22201/iifs.18704905e.2022.1320">https://doi.org/10.22201/iifs.18704905e.2022.1320</a> >. [2022]		
“La controversia acerca de la identidad en su ingreso al ámbito de la mecánica cuántica” (The Controversy over Identity as it Entered the Realm of Quantum Mechanics). <i>Ideas y Valores</i> 71(8Supl): 138-164. In collaboration with Olimpia Lombardi. Available: < <a href="https://doi.org/10.15446/ideasyvalores.v71n8Supl.102872">https://doi.org/10.15446/ideasyvalores.v71n8Supl.102872</a> >. [2022]		
“Un experimento para Riemann. Introducción a la tesis convencionalista en la física relativista” (An experiment for Riemann. Introduction to the conventionalist thesis in relativistic physics). <i>Cuadernos Filosóficos / Segunda Época</i> N. 16. Available in: < <a href="https://doi.org/10.35305/cf2.vi16.79">https://doi.org/10.35305/cf2.vi16.79</a> >. [2020]		
“La Polis de Dios. El doble poder medieval y una sobrenaturalización de lo político”. (The polis of God. Double medieval power and supernaturalization of politics). <i>Res Publica. Revista de Historia de las Ideas Políticas</i> 22.1, 1-14. Available in: < <a href="https://doi.org/10.5209/RPUB.63881">https://doi.org/10.5209/RPUB.63881</a> >. [2019]		
“La selección natural, una idea evolutivamente bien adaptada” (Natural selection, an evolutionarily well-adapted idea). <i>Cuadernos Filosóficos / Segunda Época</i> , [S.l.], n. XII, p. 119-129. Available in: < <a href="https://doi.org/10.35305/cf2.vi12.11">https://doi.org/10.35305/cf2.vi12.11</a> >. [2018]		



## OTHER INFORMATION

<p>Undergraduate course: “Filosofía de la materia, el espacio y el tiempo. De Descartes a Einstein.” (Philosophy of matter, space and time. From Descartes to Einstein). In collaboration with Javier Castro Albano. National University of Rosario. [2019]</p>
<p><b>PAIR-REVIEWING 2020-2023</b></p> <ul style="list-style-type: none"><li>▪ Pair-Reviewer for the International Journals: Foundations of Physics; Journal for General Philosophy of Science.</li><li>▪ Pair-Reviewer for the Regional Journals: Metatheoria (Argentina); Trans/Form/Ação (Brazil); Universitas Philosophica (Colombia).</li></ul>
<p><b>CONFERENCE ORGANIZATION</b></p> <ul style="list-style-type: none"><li>▪ Organizer of IV Jornadas de Fundamentos, Historia y Filosofía de la Física. In collaboration with Sebastian Fortin and Federico Holik (October). [2023]</li><li>▪ Organizer of I Jornadas de Fundamentos, Historia y Filosofía de la Física. In collaboration with Sebastian Fortin and Federico Holik (December). [2020]</li></ul>
<p><b>WORK IN PROGRESS</b></p> <ul style="list-style-type: none"><li>▪ “Quantum ontology: a modal bundle-theorist relational proposal”. In peer-review by an international journal. Accepted with revisions.</li><li>▪ “Emergence-Free Duality: Phonons and Atoms in Crystalline Solids”. In collaboration with Sebastian Fortin. In peer-review by an international journal.</li><li>▪ “Las cantidades físicas como relaciones en la Tercera Analogía de la Experiencia” (Physical Quantities as Relations in Third Analogy of Experience). In peer-review by a regional journal.</li><li>▪ “Some ‘entangled’ aspects of the metaphysics of entanglement.” Manuscript of about 6000 words.</li><li>▪ “Physical Quantities as Relations in Third Analogy of Experience”. Manuscript of about 7000 words.</li></ul>

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The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: Alvear, Argentina, 27/05/2024