

Simone Paolo Roca

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Research Interests

Areas of Specialisation: Epistemology.

Areas of Competence: Philosophy of Mathematics, Philosophy of Science, Artificial Intelligence, Cognitive Science.

Education

IUSS, University of Milan, Scuola Normale Superiore , Pavia, Milan, Pisa, Italy	October 2025 — ongoing
HuME PhD: the Human Mind and its Explanations	
- Member of the HUMATH project (2025–2028), funded by the Italian Science Fund (FIS) and led by Prof. Silvia De Toffoli. - Thesis project on understanding in science and mathematics, and on whether AI systems can perform a process analogous to human understanding.	
Alma Mater Studiorum , Bologna, Italy	October 2021 — March 2024
Master of Science in Philosophical Sciences	110/110 Cum Laude
Alma Mater Studiorum , Bologna, Italy	October 2018 — July 2021
Bachelor of Science in Philosophy	110/110 Cum Laude
Liceo Classico P. Colletta , Avellino, Italy	September 2013 — July 2018
Diploma in Classical Studies	100/100

Grants & Scholarships

PhD Scholarship , IUSS Pavia	€17,867.30 per year
<i>HUMATH Project, Italian Science Fund (FIS)</i>	<i>October 2025 — ongoing</i>
FIS Funding — Visiting Period	€1,500
<i>University of Zurich, Switzerland</i>	<i>2026</i>
FIS Funding — Conference	€700
<i>Sorbonne Université, Paris, France</i>	
IUSS Funding — Courses	€500
<i>Scuola Normale Superiore, Pisa, Italy</i>	

Academic Experience

University of Urbino	Urbino, Italy
<i>Summer School</i>	<i>31 August — 4 September 2026</i>
Participation in the VIII edition of the Epistemology Summer School.	
IUSS	Pavia, Italy
<i>Member of the Organizing Committee, SILFS 2026</i>	<i>29 June — 2 July 2026</i>
University of Zurich	Zurich, Switzerland
<i>Visiting PhD Student</i>	<i>15 — 30 May 2026</i>
Invited research visit at the ZEGRa research group on rationality.	
IUSS	Pavia, Italy
<i>Doctoral Student Representative, SUV Department Council</i>	<i>10 February 2026 — ongoing</i>
FPMW-ESPM Conference 2025	Paris, France
<i>Invited Participant</i>	<i>14 — 17 October 2025</i>
Alma Mater Studiorum	Bologna, Italy
<i>Organizer & Speaker</i>	<i>25 March — 1 July 2025</i>
Ideation, coordination and moderation of the seminar series “Language and Reality”. Invited speakers: Silvia De Toffoli (IUSS), Matti Eklund (Uppsala Universitet), Crispin Wright (University of Stirling), Michael Lynch (University of Connecticut), Paul Horwich (NYU).	
2nd SIFA Early Career Development Workshop	Bologna, Italy
<i>Summer School</i>	<i>19 — 20 June 2025</i>
Attendance to the Summer School as a verified member of the Italian Society of Analytic Philosophy.	
Università del Piemonte Orientale	Vercelli, Italy
<i>Winter School</i>	<i>18 — 20 December 2024</i>
Attendance to the Winter School promoted by the Association of Analytic Metaphysics in the Italian-Speaking World.	
1st SIFA Early Career Development Workshop	Bologna, Italy
<i>Summer School</i>	<i>13 — 14 June 2024</i>
Attendance to the Summer School as a verified member of the Italian Society of Analytic Philosophy.	

Talks

“Modeling Proofs to Understand Them” <i>Masterclass in the Philosophy of Mathematical Practice 2026, VUB</i>	Brussels, Belgium 2026
“Understanding Proofs as Models” <i>SILFS Triennial Conference 2026, IUSS</i>	Pavia, Italy 29 June — 2 July 2026
“The Fifth Dimension. A New Dimension for Knowledge” <i>Giornata Mondiale della Filosofia, Alma Mater Studiorum</i>	Bologna, Italy 24 November 2023

Publications

Book

Forthcoming

- Roca, S.P., (2026). *Il posto giusto*. Maschietto Editore, Firenze.

Certificates

IELTS (Academic): 7.5 (overall score)

Listening: 9.0 — Reading: 9.0
Speaking: 6.5 — Writing: 6.5
Test date: 11 April 2025

Selected University Courses

PhD Courses

- Symmetry in Syntax (Linguistics)
- Epistemology
- Philosophy of Mind and Cognition
- Logic and Methodology of Data-Driven Inference
- Philosophy of Language and Metaphysics
- Philosophy of Computation
- Data-Driven Responsible AI
- Epistemology and Philosophy of Mathematics
- Social Kinds
- Logic, Proofs and Understanding
- Formal Epistemology
- Decisions, Evidence and Probability

Skills

- **Programming:** HTML; CSS; JavaScript.
- **AI Software:** Gemini, Claude, NotebookLM, Firefly, and others.
- **Other Digital Skills:** L^AT_EX, Adobe Suite (Photoshop, Illustrator, InDesign), Final Cut Pro, Canva, Obsidian, Notion, Office (Word, PowerPoint, Excel).

Other Experiences

Seneca

Professor of Italian Language

Bologna, Italy
October 2024 — February 2025

- A1–B1 Italian language course for foreigners, both online and in presence.

Melainsana Magazine

Writer

Bologna, Italy
January 2022 — present

- Writing articles for online publication; peer-to-peer review; copywriting; graphic work on social media.

References

Prof. Silvia De Toffoli

Associate Professor, Classe di Scienze Umane e della Vita, IUSS, Pavia, Italy
E-mail: silvia.detoffoli@iusspavia.it

Prof. Andrea Sereni

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