

UNIVERSITY OF MILAN

Public selection for recruiting No._1_ research associate(s) under art.24, paragraph 3.a, of Law No.240/2010 for competition sector_11/C2 - LOGICA, STORIA E FILOSOFIA DELLA SCIENZA, (scientific-disciplinary sector M-FIL/02 - LOGICA E FILOSOFIA DELLA SCIENZA) at the Department of *Filosofia Piero Martinetti*, (announcement published in Official Gazette No.19 of 08.03.2022) - Competition code 4961

**Mattia PETROLO
CURRICULUM VITAE**

(N.B. CV MUST BE OF UP TO 30 PAGES AND INCLUDE THE DETAILS CANDIDATES CONSIDER USEFUL FOR THE ASSESSMENT.
ALL THE TITLES INSERTED BELOW ARE JUST EXAMPLES THAT CAN BE REPLACED, CHANGED OR COMPLETED)

PERSONAL DATA (DO NOT INCLUDE YOUR PERSONAL ADDRESS AND LANDLINE OR MOBILE PHONE NUMBER)

SURNAME	PETROLO
NAME	MATTIA
DATE OF BIRTH	09/06/1981

QUALIFICATIONS**DEGREE**

(Specify full degree name, University, date, etc.)

2008 - 2013 - **PhD in Logic and Epistemology**, University Paris Diderot - Paris 7, Paris (France), defended on 29/11/2013.

2004 - 2006 - **Master's degree in Philosophy of Science (Laurea magistrale)**, *summa cum laude*, University of Rome "La Sapienza", Rome (Italy).

2001 - 2004 - **Bachelor's degree in Philosophy (Laurea)**, *summa cum laude*, University of Rome "La Sapienza", Rome (Italy).

DOCTORAL DEGREE OR EQUIVALENT QUALIFICATION EARNED IN ITALY OR ABROAD / MEDICAL SPECIALISATION DIPLOMA OR EQUIVALENT QUALIFICATION, FOR THE RELEVANT SECTORS, EARNED IN ITALY OR ABROAD

(Specify qualification full name, institution, date, etc.)

PhD in Logic and Epistemology, University Paris Diderot - Paris 7, Paris (France), defended on 29/11/2013.

Title: The Metamorphosis of Constructivity in Logic: An epistemological study of the constructivization of classical logic, supervisor: Prof. Jean-Baptiste Joinet.

RESEARCH CONTRACTS, RESEARCH FELLOWSHIP CONTRACTS, POSTDOCTORAL SCHOLARSHIPS OR SIMILAR CONTRACTS

(Specify, for each contract, university/institution, starting and termination date, etc.)

--

2019 - ... - **Associate Researcher**, *Institute for the History and Philosophy of Science and Technology* (IHPST Paris)

2018 - ... - **Assistant Professor**, *Federal University of ABC* (UFABC), Center for Natural and Human Sciences (CCNH)

2015 - 2018 - **Postdoctoral researcher**, *CNRS/University of Paris 1 Panthéon - Sorbonne*, ANR-DFG funded project "Beyond Logic: Hypothetical Reasoning in Philosophy of Science, Informatics, and Law".

2013 - 2015 - **Postdoctoral researcher**, *CNRS/University Paris 1 Panthéon - Sorbonne*, ANR-DFG funded project "Hypothetical Reasoning - Its Proof-Theoretic Analysis".

2011 - 2013 - **Research and teaching assistant**, *Attaché Temporaire d'Enseignement et de Recherche*, University Paris Diderot - Paris 7.

TEACHING ACTIVITIES AT ITALIAN OR FOREIGN UNIVERSITIES

(Specify academic year, university, degree course, number of hours etc.)

Teaching

2022 (ongoing)

- **Philosophy of Logic**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese). Held virtually, due to the spread of COVID-19.
- **Critical Thinking**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese). Held virtually, due to the spread of COVID-19.

2021

- **Philosophy of Logic**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese). Held virtually, due to the spread of COVID-19.
- **Critical Thinking**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese). Held virtually, due to the spread of COVID-19.
- **Introduction to Logic**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese). Held virtually, due to the spread of COVID-19.

2020

- **Philosophy of Logic**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese).
- **Introduction to Logic**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese). Held virtually, due to the spread of COVID-19.

2019

- **Philosophy of Language**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese).
- **Critical Thinking**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese).
- **Introduction to Logic**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese).

2018

- **Philosophy of Language**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese).
- **Introduction to Logic**, 48 hours lecture course for undergraduate students, Federal University of ABC (in Portuguese).

2015 - 2016

- **Logic: advanced topics**, lecture course for 3rd year undergraduates, University of Paris 1 - Panthéon Sorbonne (in French).

2014 - 2015

- **Philosophy of Informatics**, lecture course for 2nd year undergraduates, University of Paris 1 - Panthéon Sorbonne (in French).

2013 - 2014

- **Introduction to Logic**, lecture course for 1st year undergraduates, University of Paris 1 - Panthéon Sorbonne (in French).

2012 - 2013

- **Introduction to Philosophy of Mathematics: Formalism, Naturalism, Fictionalism**, lecture course for 1st year Master students, Master Histoire et Philosophie des Sciences, University Paris Diderot - Paris 7 (in French).

2011 - 2012

- **Introduction to History and Philosophy of Science: theories of knowledge**, lecture course for 1st year Master students, Master Histoire et Philosophie des Sciences, University Paris Diderot - Paris 7 (in French).

2010 - 2011

- **Introduction to Logic**, lecture course for 1st year undergraduates, University Paris 1 - Panthéon Sorbonne (in French).

Master student supervision

2021 - Federal University of ABC. Student: Kleber Silva Bernardo. Title: Existence and abstract objects: a contemporary debate (in Portuguese).

2019 - Federal University of ABC. Co-supervisor of the student: Gregory Augusto. Title: The problem of the determination of meaning: semantic internalism and semantic externalism between Carnap and Kripke (in Portuguese).

Examining committee member

- PhD defence "A modal approach to logical consistency" by Edson Bezerra, University of Campinas (Brazil), 12 December 2021.
- Qualification committee of the Master thesis "Essence and arbitrariness" by Pedro Yago, University of Campinas (Brazil), 21 August 2020.
- Qualification committee of the PhD thesis "A modal approach to logical consistency" by Edson Bezerra, University of Campinas (Brazil), 11 November 2019.

ATTESTED TRAINING OR RESEARCH ACTIVITIES AT QUALIFIED ITALIAN OR FOREIGN INSTITUTIONS
(Specify academic year, institution, course, period, etc.)

Visiting Appointments

October 2014 - Departamento de Filosofia, Pontifícia Universidade Católica do Rio de Janeiro, Brazil, (invited by Prof. Oswaldo Chateaubriand and Prof. Luiz Carlos Pereira).

April 2012 - Wilhelm-Schickard-Institut für Informatik, Universität Tübingen, Germany (invited by Prof. Peter Schroeder-Heister).

November 2011 - University of Notre Dame, USA (invited by Prof. Michael Detlefsen).

ATTESTED ACTIVITY IN THE CLINICAL FIELD

(Specify date, duration, role, institution where the aid activity was carried out, etc.)

--

IMPLEMENTATION OF PROJECTS

(Specify date, project name, etc.)

Research Grants

Co-authored projects

- Co-authored a successful grant of the São Paulo Research Foundation (FAPESP) for the conference "Speaking the Unspeakable: Paradoxed between Truth and Proof", University of Campinas. December 2019. BRL 17.420.
- Co-authored a successful grant of the Brazilian National Council for Scientific and Technological Development (CNPq) for the project "A case study for non-normal modal logic", University of Campinas in collaboration with the University of British Columbia (Canada), 2019-2020 (BRL 10.000).
- Co-authored successful ANR (French National Research Agency) - DFG (German Research Foundation) grant for the French-German joint project "Beyond Logic: Hypothetical Reasoning in Philosophy of Science, Informatics, and Law", coordinated by Jean Fichot (University of Paris 1 Panthéon-Sorbonne, IHPST) and Peter Schroeder-Heister (University of Tübingen), 2015-2018.
- Co-authored a successful CAPES-COFECUB grant for French-Brazilian joint project "Proofs, demonstrations and representation", coordinated by Oswaldo Chateaubriand Filho (PUC, Rio de Janeiro) and Marco Panza (IHPST, Paris), 2014-2017.
- Co-authored a successful ANR-DFG grant for the French-German joint project "Hypothetical Reasoning", coordinated by Jean Fichot (University of Paris 1 Panthéon-Sorbonne, IHPST) and Peter Schroeder-Heister (University of Tübingen), 2012-2015.
- Co-authored a successful CAPES-COFECUB grant for French-Brazilian joint project "Théories contemporaines de la logique et philosophie du langage", coordinated by Jean-Baptiste Joinet (Lyon 3 University) and Luiz Carlos Pereira (PUC - Rio de Janeiro), 2010-2013.
- Co-authored a successful grant of the PhD research network "Vérité et Preuves", granted by the College des écoles doctorales de Paris 1, École Doctorale en Mathématiques et Informatique de

Marseille, école doctorale sciences mathématiques de Paris Centre, coordinated by Jean-Baptiste Joinet (Lyon 3 University), 2010-2011 (website: <http://www.ihs.fr/~seiller/Projet.html>).

Other projects

- Participation as associated researcher in the ANR project “The Geometry of Algorithms”, coordinated by Alberto Naibo (University of Paris 1 Panthéon-Sorbonne) at the Institute for History and Philosophy of Science and Technology, 2021-2024 (252.024 euros).
- Participation as associated researcher in the São Paulo Research Foundation (FAPESP) project “Genericity and arbitrariness. Or how to speak of the unspeakable”, coordinated by Giorgio Venturi at the Institute of Philosophy and the Humanities of the University of Campinas, 2018-2021 (BRL 571.500).

ORGANISATION, SUPERVISION AND COORDINATION OF NATIONAL AND INTERNATIONAL RESEARCH GROUPS, OR PARTICIPATION IN THEM

(For each entry, specify year, role, research group, etc.)

Organization of Conferences and Workshops

- *Speaking the Unspeakable. Paradoxes between Truth and Proof*, with G. Venturi, University of Campinas, Campinas (Brazil), 9-10 December 2019.
- *Intuitionism, Computation, and Proof: Selected themes from the research of G. Kreisel*, with M. Antonutti Marfori, IHPST - Paris, 10-11 June 2016.
- *Representing Knowledge: Logical and Philosophical Approaches*, with E. Kubyskhina, IHPST - Paris, 1 April 2016.
- *Modeling Hypothetical Reasoning: Validity, Inference, and Paradoxes*, with J. Fichot and J.-B. Joinet, IHPST - Paris, 19-20 February 2015.
- *Hypotheses Conference*, with A. Naibo and J. Fichot, workshop of the ANR-DFG funded project “Hypothetical Reasoning”, IHPST - Université Paris 1 Panthéon-Sorbonne, 29-30 May 2014.
- *Cross Perspectives on Proof Systems and Their Significance*, with F. Poggiolesi, workshop of the ANR-DFG project “Hypothetical Reasoning”, École normale supérieure Paris, 3 May 2012.
- *The Meaning of Axioms: From Mathematics to Logic*, with A. Naibo, T. Seiller, symposium accepted at the 14th Congress of Logic, Methodology and Philosophy of Science, Nancy, 19-26 July 2011.
- *Proof-theoretic Semantics and the Justification of Logical Laws*, with B. Halimi, D. Rabouin, I. Smadja, S. Walsh, Université Paris Diderot - Paris 7, 3 May 2011.
- *Meaning and Proofs - Logical and Philosophical Perspectives*, with F. Poggiolesi, 22 March 2010, Maison des Sciences de l'Homme, Paris.
- *New Perspectives on Classical Logic and Axiomatics*, with A. Naibo, Université Paris 1 Panthéon-Sorbonne, 16 June 2009.
- Co-organizer of the PhD Research Group “Vérité et Preuves” - University Paris 1, University Paris 7, University Paris 13, École normale supérieure (Paris), University Aix-Marseille, with G. Guerrieri, A. Naibo, T. Seiller, 2010-2011.

HOLDING PATENTS

(For each patent, specify authors' names, title, classification, patent number, etc.)

--

SPEAKING AT NATIONAL AND INTERNATIONAL CONFERENCES AND CONVENTIONS

(Specify conference/convention title, date, etc.)

Selected Talks

Invited

- "Ignorance as an excuse, formally", *Seminar CoLoR: Cognition, Logic, Rationality*, École Normale Supérieure, Paris (France), 21 January.
- "The dark side of knowledge", Seminar of the Munich Center for Mathematical Philosophy (MCMP), Ludwig Maximilian University (Germany), 23 January 2020.
- "Towards a logic for arbitrary mathematical objects", PhilMath Seminar, Institute for the History and Philosophy of Science and Technology, Paris (France), 20 January 2020.
- "Revising the elenchos via belief revision", *Infinite Regress Arguments and Non-Contradiction in Plato and Aristotle*, University of Nottingham (United Kingdom), 1-2 March 2019.
- "A proof-theoretic analysis of paradoxes", *Logic Seminar*, Universidade Estadual de Campinas (Brazil), 25 April 2018.
- "Normality beyond logic", *Conference Beyond Logic*, Château de Cerisy, Cerisy-la-Salle (France), 22-27 May 2017.
- "The naturality of natural deduction", *Computing, Logic, and Types*, Université Jean Moulin Lyon 3 (France), 12-13 November 2015.
- "Negation as an ideality: From conservativeness to constructability", *Representation and axiomatization: power and limits*, IHPST, Paris (France), 19-21 March 2015.
- "Logicity from an inferentialist perspective", *Ontological Commitment in Mathematics*, University of California - Davis (USA), 23-24 February 2015.
- "Logicity: from inference to computation", *XVIII Colóquio Conesul de Filosofia das Ciências Formais*, Universidade Federal de Santa Maria (Brazil), 8-12 November 2014.
- "Actual vs. potential truth, negative hypothesis, and classical logic", Departamento de Filosofia, Pontifícia Universidade Católica do Rio de Janeiro (Brazil), 29 October 2014.
- "On the computational meaning of axioms", *Logic, Computation and Reasoning Seminar*, Laboratoire d'informatique de Paris Nord, Université Paris 13 (France), 6 June 2014.
- "A hypotheses-based analysis of proof-theoretic validity", *Workshop Hypothetical Reasoning*, IHPST, Paris (France), 29-30 May 2014.
- "Towards a verificationist account of classical logic", *Workshop On Hypothetical Reasoning*, Wilhelm-Schickard-Institut für Informatik, Universität Tübingen (Germany), 16 April 2012.
- "Negative assumptions and verificationism", *Workshop On Negation*, École normale supérieure - Paris (France), 12 December 2011.

- “A computational analysis of logical constants. From inferentialism to an untyped perspective”, *Seminar of the ANR project LOCI*, Centre international de recherches en mathématiques-CIRM, Marseille (France), 21 January 2011.

Refereed

- “Epistemic logics for ignorance representation”, *12th International Scientific Conference “Intelligent Systems and Computer Science”*, Moscow State University M. V. Lomonossov, Moscow (Russia), 1 December 2021, held virtually.
- “A constructivist reading of the Epsilon calculus”, *12th French Workshop in Philosophy of Mathematics*, Nancy (France), 5-7 and 12-13 November 2020, held virtually.
- “The dark side of knowledge”, *11th Principia International Symposium*, Florianópolis (Brazil), 19-22 August 2019.
- “Proof-theoretic semantics and paradoxical languages”, *Third Tübingen Conference on Proof-Theoretic Semantics*, Tübingen (Germany), 27-30 March 2019.
- “A normal paradox”, *LOGICA 2016*, Hejnice monastery (Czech Republic), 20-24 June, 2016.
- “Harmonizing involutive and constructive negations”, *Non-Classical Logic. Theory and Applications 7th edition*, Torun (Poland), 24-26 September, 2015.
- “Untyped validity: from interaction to rules”, *15th Congress on Logic, Methodology, and Philosophy of Science*, University of Helsinki (Finland), 3-8 August 2015.
- “Harmonizing involutive and constructive negations”, *5th World Congress on Universal Logic*, Istanbul University (Turkey), 25-30 June 2015.
- “Natural deduction for intuitionistic differential linear logic”, *Logic Colloquium 2014*, Technische Universität Wien (Austria), 14-19 July 2014.
- “A computational analysis of logical constants: From inferentialism to an untyped perspective”, *Workshop on Logical Constants, European Summer School in Logic Language and Information 2011*, Ljubljana (Slovenia), 7-12 August 2011.
- “On the meaning of logical axioms”, *14th Congress of Logic, Methodology and Philosophy of Science*, Nancy (France), 19-26 July 2011.

NATIONAL AND INTERNATIONAL AWARDS AND ACCOLADES FOR RESEARCH ACTIVITY

(Specify award, date, issuing organisation, etc.)

July 2011 - Scholarship to attend the 14th Congress of Logic, Methodology and Philosophy of Sciences.

2010 - 2011 - Scholarship to study abroad from the University of Rome ‘La Sapienza’, held at University Paris Diderot - Paris 7.

February 2010 - Scholarship to study abroad from the Université Paris Diderot - Paris 7, held at University of Rome 3.

2008 - 2009 - Doctoral Fellow “Ideals of Proofs”, Prof. Michael Detlefsen's ANR Senior Chaire d'excellence 2007-2011, Department Histoire et Philosophie des Sciences, Université Paris Diderot - Paris 7.

HOLDING A EUROPEAN SPECIALISATION DIPLOMA RECOGNISED BY INTERNATIONAL BOARDS

(For those competition sectors for which it is requested)

(Specify diploma, date, etc.)

2014 - Associate professor qualification in a French University (Qualification aux fonctions de maître de conférences), by the French Ministry of Research and Education: Section 17 (Philosophy) and Section 72 (Epistemology, history of science and technology).

QUALIFICATIONS UNDER ART.24, PARAGRAPH 3.a AND 3.b, OF LAW No.240/2010 OF 30 DECEMBER 2010

(Specify whether it is a type A or type B contract, University, contract effective date and end date, etc.)

SCIENTIFIC PRODUCTION

SCIENTIFIC PUBLICATIONS

(For each publication, specify the following: authors' names, full title, publisher, date and place of publication, ISBN/ISSN/DOI or equivalent code)

- "What is normal?" (with E. Kubyshkina), *submitted*.
- "Revising the elenchus via belief revision" (with E. Kubyshkina), *submitted*.
- "Logics of ignorance and being wrong" (with D. Gilbert, E. Kubyshkina, G. Venturi), online first, *Logic Journal of the IGPL*, Oxford, <https://doi.org/10.1093/jigpal/jzab025>.
- "The naturalness of natural deduction II. On atomic polymorphism and generalized propositional connectives" (with P. Pistone and L. Tranchini), online first, *Studia Logica*, <https://doi.org/10.1007/s11225-021-09964-z>.
- "A logic for factive ignorance" (with E. Kubyshkina), *Synthese*, 198: 5917-5928, 2021, <https://doi.org/10.1007/s11229-019-02440-1>.
- "What ignorance could not be" (with E. Kubyshkina), *Principia: an International Journal of Epistemology*, 24(2): 247-254, 2020, <https://doi.org/10.5007/1808-1711.2020v24n2p247>.
- "Not ignoring is not knowing" (with E. Kubyshkina), *South American Journal of Logic*, 5(1): 361-375, 2019, <http://www.sa-logic.org/sajl-v5-i2/10-Kubyshkina-Petrolo-SAJL.pdf>.
- "The naturalness of natural deduction" (with P. Pistone and L. Tranchini), *Studia Logica*, 107(1): 195-231, 2019, <https://doi.org/10.1007/s11225-017-9772-6>.
- "On paradoxes in normal form" (with P. Pistone), *TOPOI*, 38(3): 605-617, 2019, <https://doi.org/10.1007/s11245-018-9543-7>.
- "A normal paradox" (with P. Pistone), in P. Arazim and T. Lávicová (eds.): *The Logica Yearbook 2016*, 173-184, College Publications, 2017, ISBN-10: 1848902816, ISBN-13: 978-1848902817.

- “On the computational meaning of axioms” (with A. Naibo and T. Seiller), in O. Pombo, A. Nepomuceno, J. Redmond (eds.): *The dynamic of knowledge: from reasoning to epistemology*, 141-184 (Logic, Epistemology, and the Unity of Science Series), Springer 2016, DOI: 10.1007/978-3-319-26506-3_5.
- “Verificationism and classical realizability” (with A. Naibo and T. Seiller), in C. Baskent (ed.): *Perspectives on Interrogative Models of Inquiry - Developments in Inquiry and Questions*, 163-197, Springer 2015, https://dx.doi.org/10.1007/978-3-319-20762-9_9.
- “Are uniqueness and deducibility of identicals the same?” (with A. Naibo), *Theoria - A Swedish Journal of Philosophy*, 81: 143-181, 2015, <https://doi.org/10.1111/theo.12051>.
- “Negative translations and duality: toward a unified approach”, in A. Lecomte and S. Tronçon (eds.): *Ludics, Dialogue and Interaction*, 188-204 (Lecture Notes in Computer Science 6505), Springer 2011, https://doi.org/10.1007/978-3-642-19211-1_12.

In preparation

- Edition of the volume “Intuitionism, Computation, and Proof” (with M. Antonutti Marfori), forthcoming in the Springer series *Logic, Epistemology, and the Unity of Science*.
- Edition of the volume “Paradoxes between Truth and Proof” (with G. Venturi), book under contract with Springer in the series *Synthese Library*.

Book reviews

- “Intuitionism vs. Classicism: A Mathematical Attack on Classical Logic” by Nick Haverkamp (with A. Naibo), *Revue philosophique de la France et de l'étranger*, 1(141): 101-103, 2016, <https://www.jstor.org/stable/44646631>.

OTHER ACADEMIC ACTIVITIES

Reviewer for articles in international journals

- Studia Logica, Journal of Logic and Computation, Logic Journal of the IGPL, Journal of Philosophical Logic, Outstanding Contributions to Logic, Theoria: A Swedish Journal for Philosophy, Synthese Library, Advances in Modal Logic, Non-Classical Logics - Theory and Applications.

Reviewer for international projects and organizations

- von Humboldt Foundation, the Czech Science Foundation.

Other tasks in connection with research

2015 - 2018 - Post-doctoral researchers' representative at the Institute for the History and Philosophy of Science and Technology.

2010 - 2011 - Coordinator of the interdisciplinary doctoral research project “Vérité et Preuves”. Web page of the project: <https://www.seiller.org/Projet.html>.

Languages

- Italian (native)
- English (fluent)
- French (fluent)

- Portuguese (fluent)

Date

21/03/2022

Place

São Paulo