

Miguel Muñoz Pérez, PhD student

Contact

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Education

2024 – today

UNED

PhD in Philosophy supervised by Umberto Rivieccio (in progress)

Provisional title: ‘Logic and AI: analysis of the logical and ethical limits of probabilistic inference models’

2022 – 2024

University of Barcelona (UB)

Master in Pure and Applied Logic

Master Thesis: *Meet-irreducible elements in the poset of all logics* (8.7), supervised by Tommaso Moraschini

2017 – 2021

Complutense University of Madrid (UCM)

Degree in Mathematics

Bachelor Thesis: *Model Theory of Algebraically Closed Fields* (9.8), supervised by Daniel Palacín

2015 – 2017

High school IES El Burgo, Las Rozas de Madrid, Madrid

Science-oriented ‘Excellence Program’ (*Programa de Excelencia*)

Average Grade: 8.88, some courses with honors

Final Project: *On the Problem of the Proof of the Church-Turing Thesis* (9.2)

Other courses

2021-22

Philosophy of Language I (9.6) and Philosophy of Logic (9.5) at UNED

2019

ESSLLI 2019 (European Summer School in Logic, Language and Information), Riga University, Latvia

2015

Exchange Program with Lindenberg Gymnasium (Munich, Germany)

2013

Exchange Program with Barton Court Grammar School (Canterbury, United Kingdom)

Teaching

2023-24

Teaching at Tau Cuadrado. Private mathematics academy for University students in Barcelona. Linear Algebra, Ring Theory, Group Theory, Topology.

2021

Teaching practice in Basic Mathematics at UCM. Mandatory first-year course preparation. Basic logic and set theory, proof techniques.

Papers

2026

Four-valued logics of indicative conditionals, arXiv preprint, <https://arxiv.org/abs/2510.21882>

- 2026 *Analytic Calculi for Logics of Indicative Conditionals*, with Vítor Greati, V., Sérgio Marcelino and Umberto Rivieccio. In: Pozzato, G.L., Uustalu, T. (eds) *Automated Reasoning with Analytic Tableaux and Related Methods. TABLEAUX 2025. Lecture Notes in Computer Science()*, vol 15980. Springer, Cham. <https://doi.org/10.1007/978-3-032-06085-34>
- 2025 *Indicative Conditionals: Some Algebraic Considerations*, with Umberto Rivieccio. In: Kozen, D., de Queiroz, R. (eds) *Logic, Language, Information, and Computation. WoLLIC 2025. Lecture Notes in Computer Science*, vol 15942. Springer, Cham. <https://doi.org/10.1007/978-3-031-99536-18>

Preprints

- 2025 *On a form of intrinsic optimism in Set Theory*, arXiv preprint, <https://arxiv.org/abs/2512.02045>
- 2023 *Wittgenstein on decisions and the mathematical practice*, arXiv preprint, <https://arxiv.org/abs/2304.09732>

Selected talks

- 2025 *Motivating logics of indicative conditionals*, at the Metis Seminar.
- 2025 *Four-valued logics of indicative conditionals*, at ReactS 2025.
- 2025 *Indicative conditionals: some algebraic considerations*, at WoLLIC 2025.
- 2025 *Posets of logics and the collapse arguments*, at the Phidelo Seminar.
- 2024 *Meet-irreducible elements in the poset of all logics*, at TACL 2024.
- 2023 *Are non-classical logics revolutionary?*, at Lògica: eina i fonament.

Organizing

- 2024 Co-organizer of TACL (Topology, Algebra and Categories in Logic) 2024, held at the University of Barcelona
- 2023 Organizer of *Lògica: eina i fonament*. Talks given by students of the Master in Pure and Applied Logic held at the University of Barcelona. Delivered talk: *Are non-classical logics revolutionary?*

Skills

Programming

Basic knowledge of: Matlab, Coq

Acquainted with: Python (Tensorflow, Pandas, Keras), MySQL

Very acquainted with: PHP (Laravel), L^AT_EX

Languages

English (C1, 105 TOEFL)

German (B1+)

Catalan (informal)