Eduardo Magalhães

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Education

Faculty of Sciences of the University of Porto (FCUP) *Sept 2023 – Jun 2025*
MSc in Mathematics

- **Thesis:** "Definable Semigroups in O-minimal Structures" ↗
  Supervised by Dr. Mário Edmundo (FCUL) and Dr. Jorge Almeida (FCUP)
- **Other activities:** Director, Educational Department of Mathematics Students' Association

Faculty of Sciences of the University of Porto (FCUP) *Sept 2020 – June 2023*
BS in Mathematics

Teaching

Adjunct assistant professor *Sept 2025 – Now*
Faculty of Sciences of the University of Porto (FCUP)

- Taught Linear Algebra and Abstract Algebra

Organizer and lecturer for a mini-course on mathematical logic and applications *May 2025 - Jun 2025*
Mathematics Students' Association, Faculty of Sciences of the University of Porto

Research experience

Master Thesis *Sept 2024 – Jun 2025*
"Semigroups Definable in O-minimal Structures"
Supervised by Dr. Mário Edmundo (FCUL) and Dr. Jorge Almeida (FCUP)

Preprints
"Rewriting Systems on Arbitrary Monoids" ↗ *Jan 2026*
"On Definably Compact Semigroups in o-Minimal Structures" ↗ *Jul 2025*

Seminars and Conferences

Speaker at the Mathematical Logic Seminar *13 May 2025*
"Definable semigroups in O-minimal Structures"
CEMS.UL - Centre of Mathematical Studies, Faculty of Sciences of the University of Lisbon

Presentation *9 May 2025*
"Semigroups Definable in O-minimal Structures"
18th Young Research Meeting of the University of Porto (IJUP)

Other

Mathematics Tutor for high-school students *Feb 2022 – Aug 2022*
CertificArte, Porto, Portugal

Student Internship *Feb 2022 – Jun 2023*
"Contributions to Research in Science Teaching and Dissemination"
Supervised by Dr. Ilídio André Costa (FCUP)

- Performed analysis on data attained from a previous questionnaire conducted by my supervisor.

Awards

- Received the "Best Oral Communication" award for my presentation titled *"Semigroups Definable in O-minimal Structures"* at IJUP - Youth Research Meeting of the University of Porto, awarded by a panel of professors and researchers.

Research interests

- Logic, Model Theory, Semigoup Theory, Category Theory, Topos Theory