

MATHEMATICIAN · DATA SCIENTIST

Portuguese nationality, born 04/07/1996

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EDUCATION _____

M.Sc. in Data Science and Advanced Analytics

NOVA University Lisbon (Information Management School)

• Thesis: Topological Expressiveness of Neural Networks

· Supervisor: Dr. Giovanni Petri

Erasmus Studies Program

GEORG-AUGUST UNIVERSITÄT Mar. 2017 - Jun. 2017

Full scholarship awarded for a 6-months study period at Göttingen University

B.Sc. in MathematicsLisbon, Portugal

NOVA University Lisbon Sep. 2014 - Aug. 2017

International Baccalaureate Diploma Programme

COLÉGIO PLANALTO Sep. 2010 - May. 2014

Publications

Giovanni Petri and António Leitão, "On the Topological Expressive Power of

2020 Neural Networks" In: NeurIPS 2020 Workshop on Topological Data Analysis and Online

Beyond, https://openreview.net/forum?id=I44kJPuvqPD

António Leitão and Giovanni Petri, "On the Topological Complexity of Decision
2020

Pisa, Italy

Boundaries" In: 50th Scientific Meeting of the Italian Statistical Society, pp. 588-594

TEACHING _____

Masters' of Data Science and Advanced Analytics

Lisbon, Portugal

Lisbon, Portugal

Sep. 2018 - Ongoing

Göttingen, Germany

Lisbon, Portugal

NOVA University of Lisbon (Information Management School)

Sep. 2019 - Feb. 2020

Taught practical classes of Data Visualization. The expected student outcome was the creation of online interactive
dashboards for efficient visualization of high volumes of data.

EXPERIENCE

ISI Foundation Turin, Italy

RESEARCH IN TOPOLOGICAL DATA ANALYSIS

Feb. 2020 - Ongoing

- Full scholarship awarded (by Nova University) to intern at the research group of Topological Data Analysis. (collective initiatives halted due to Covid-19.)
- Research on "Topology of Learning": initiative to understand Neural Networks through Algebraic Topology, under the supervision of Dr. Giovanni Petri, since Feb. 2019.

Ageas SegurosLisbon, Portugal

PRICING INTERN Feb. 2017 - Mar. 2017

• Internship working on an actuarial group for non-life insurance pricing.

Honors & Awards

2020 2nd Place , Nokathon 2020: Nokia's international machine learning	g competition
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Online

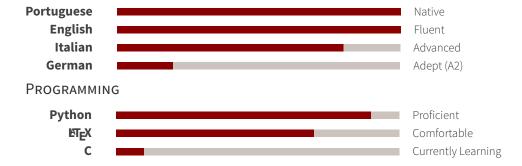
2019 **1st Place**, Nokathon 2019: Nokia's international machine learning competition

Lisbon, Portugal

Scholarship, Winner of a fully funded scholarship to participate in a 10-day workshop on Geographical Information Systems (GIS) in Delft University.

Delft, Netherlands

LANGUAGES



EXTRACURRICULAR ACTIVITY

SPORTS

AEFTLisbon, Portugal

VOLLEYBALL PLAYER 20014 - 2019

- Played volleyball for the university team AEFCT in the national university championship.
- Awarded best player of the university in the first year. In charge of player scouting for the subsequent years.

Sport Lisboa e Benfica (S.L.B.)

Lisbon, Portugal

VOLLEYBALL PLAYER

2006 - 2014

- Played volleyball for Sport Lisboa e Benfica, winning most regional championships and consistently achieving good ranking in the national championship.
- Briefly participated in the Portuguese National Volleyball team (under-18).

Music

Conservatory of Lisbon

Lisbon, Portugal

2008 - 2014

Student

• Studied piano, musical theory and jazz. Achieved grade 5 on piano.

OTHER PROJECTS Ongoing

- Self-taught in guitar and bass guitar. Currently learning the drums.
- Still involved in multiple amateur rock bands, some of which haven't failed yet.

VOLUNTEERING

João Paulo II center for the disabled.

Fátima, Portugal

VOLUNTEER

· Volunteer work in the center for disabled in Fátima, Portugal for several weeks over a period of 3 years

Santa Casa da Misericórdia.

Azores, Portugal

VOLUNTEER

July 2015

• Volunteer work on a geriatric center in Azores, Portugal for several weeks.