

Rui Pedro Mendonça Martins

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Date of Birth: 06/10/1998 Nationality: Portuguese
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Fields of Interest Mathematical Finance, Operational Research, Econometrics, Statistics, Data Science, Programming, Machine Learning, Web Development.

Soft Skills Analytical, Assertive, Detailed-Oriented, Curious, Adaptable, Multitasker, Independent, Team Player, Problem-Solver, Fun.

Work Experience **Credit Economic Capital (Credit Suisse/UBS Group)**
2022-Present: Credit Risk Quantitative Developer: Implementation, Execution and Analysis of Credit Portfolio Risk Models.
System Design with a focus in OOP in Python, R and C++.

Chair of Macroeconomics Innovation and Policy (ETHZ)
2020-2021: Student Research Assistant: Latex Editor, proofreader, R programmer and adviser on Macroeconomical papers.
Topics of interest: Institutional Design, Voting Schemes, Bargaining Games, Job Market Dynamics.
Supervisor: Prof. Dr. Hans Gersbach.

Swiss Federal Institute of Technology Zurich
2020-2021: Teaching Assistant: course Complex Analysis 2020/2021.
Lectures in person and virtually through Zoom.

Faculty of Sciences of Lisbon University
2020: LaTeX editor and proofreader for
Prof. Dr. Gracinda Cunha's book "Anéis e Corpos"
an undergraduate introductory book on Ring and Field Theory.

The Encyclopedia of Mathematics
2020: LaTeX editor for the digitalization process of mathematical texts.

Cultura Social by Cascais Jovem
2016: Volunteering for the MIMAR foundation,
consisting in taking care of children unable to live with their families
due to legal, financial or medical reasons, ranging the age of 0 to 6 years old.

Natura Observa by Cascais Jovem
2015: Volunteering, consisting in conservation of a nursery
for botanical native species, at Sintra-Cascais Natural Park.

Education	Swiss Federal Institute of Technology Zurich 2019-2021: Msc Mathematics. Master Thesis in Symplectic Geometry: Lioville Sectors Supervised by Prof. Dr. Will Merry (Diseased) and Dr. Jagna Wisniewska.
	Mathematics Institute of Warwick University 2018-2019: Undergraduate Erasmus+.
	Faculty of Sciences of Lisbon University 2016-2019: Bsc Mathematics, 2nd Best Mathematics Undegraduate Completed the advanced versions of 1st and 2nd year.
	Agrupamento de Escolas Ibn Mucana 2013-2016: High school degree. Exchange programmes in Poland, Greece, Eslovenia and Italy.
Research and Fellowships	New Talents in Mathematics Scholarship 2017-2018: Mathematical Research Project. Supported by the Calouste Gunbenkian Foundation. Title: “Relations between Supercharacter Theories and Bose-Mesner Algebras” Supervised by Dr. Carlos André, Professor at the Faculty of Science at Lisbon University.
	CMAFcIO Scholarship 2018: Mathematical Research Project. Supported by the center of Mathematics, Fundamental Applications and Operational Research Foundation. Research topic on: The Periodic Predator-Prey Lotka Volterra Model Supervised by Dr. Carlota Gonçalves, Professor at the Faculty of Science at Lisbon University.
Awards	Faculty of Sciences of Lisbon University 2019: Diploma of Academic Merit 2018: Faculty of Sciences of Lisbon University Honorable Mention 2018: Diploma of Academic Merit
Languages and Skills	Portuguese (Native), Spanish (B1), German (A2) and English (C1), IELTS and Cambridge Advanced English Certificates. Proficiency in MS Office (Word, PowerPoint, Excel), MiKTeX LaTeX. Object Oriented Design in C++, Python, R. Git Based DevOps Pipeline Configuration. C++ based Python/R library compilation using pybind11/rcpp. Familiar with Django/Rshiny Web Development and Apache2 server configuration. Familiar with GPU enhanced CUDA programming. GitHub profile: RPMMartins.
Various	Hardware Configuration : Built and Configured multiple PCs for personal use and server hosting purposes.