



UNIVERSIDADE DE ÉVORA

CIMA - CENTRE FOR RESEARCH IN MATHEMATICS AND APPLICATIONS

CIMA/BII3/2023 - Research Initiation Scholarship – 1 vacancy

9 of January of 2024

A call for tenders is open for one Research Initiation Scholarship, Ref.: CIMA/BII3/2023, within the scope of the project com reference **UIDB/04674/2020**, Financiamento Plurianual 2020-2023 of CIMA financed by national funds through FCT/MCTES, under the following conditions:

Scientific area: Mathematics

Admission requirements: Students of 1st Cycle in Mathematics and of the 1st Cycle in Mathematics Applied to Economics and Management offered by the University of Évora.

As set forth FCT Research Scholarship Regulation No. 950/2019 of December 16, 2019, article 5th, candidates for “Research Initiation Scholarship” cannot be awarded to anyone who has already benefited from research grants directly or indirectly financed by FCT, awarded under the terms of the Statute of Research Fellows.

Work plan:

Since 2002, the World Happiness Report has used statistical analysis to determine the world's happiest countries. In 2021, the report concluded that Finland is the happiest country in the world. This index looked at 149 countries, specifically considering performance in six specific categories: gross domestic product per capita, social support, healthy life expectancy, freedom to make your own life choices, generosity of the general population, and perceptions of levels of internal and external corruption levels. Some of these categories are not associated with observable variables, so this work aims to identify the main determinants of countries' happiness, considering macroeconomic variables, variables that characterize each country's dominant climate, levels of literacy, and access to health, among others.

It is also intended that the grant holder: i) obtains a database with information on the happiness index of countries and the respective variables of interest; ii) compares happiness indexes between different continents and understands how the respective determinants behave in different contexts.

To achieve these objectives, besides exploratory data analysis, parametric and non-parametric hypothesis tests and generalized linear models are used.



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Applicable legislation and regulations: The granting of the Research Scholarship will be carried out upon the signing of a contract between the University of Évora and the scholarship holder, as set in the template [former.fct.pt/apoios/Minuta Contrato Bolsa.docx](https://www.fct.pt/apoios/Minuta_Contrato_Bolsa.docx), pursuant to the Research Scholarship Statute (Law No. 40/2004 of August 18 and Decree-Law No. 123/2019 of August 28) and in accordance with the legislation and Regulation of Research Grants of the Foundation for Science and Technology, IP in force, regulation nº950/2019 of December 16, 2019 <https://files.diariodarepublica.pt/2s/2019/12/241000000/0009100105.pdf> and other applicable rules.

Place of work: The work will be developed at CIMA of the University of Évora, under the scientific guidance of the Professors Paulo Infante and Andreia Dionísio.

Duration of the scholarship(s): The scholarship will have a duration of 3 months, starting on February of 2024. The scholarship contract may be renewed up to the end of the funding project's budget allocation.

Amount of monthly maintenance allowance: The amount of the scholarship corresponds to €541,12, according to the table of scholarships awarded directly by FCT, I.P. in Portugal (https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf), payments being made monthly, by check or bank transfer.

Selection methods: The selection methods to be used will be the following, with the respective valuation :

- Curriculum evaluation: 40%;
- Motivation Letter Evaluation - 40%;
- Academic experience in the area of Mathematics – 20%.

Composition of the Selection Jury:

President: Prof. Doutor Fernando Manuel Lucas Carapau

1st Vogal – Prof. Doutor Luís Manuel Zorro Bandeira

2nd Vogal: Prof. Doutor Paulo de Jesus Infante dos Santos

1st Alternate: Profa. Doutora Maria Manuela Melo Oliveira

2nd Alternate: Prof. Doutor Paulo Manuel de Barros Correia

Advertising/notification of results: The final results of the evaluation will be publicized, through an ordered list alphabetically, posted in a visible and public place of the Mathematics Department, being the candidate approved notified through *email*.

To ensure the right of prior hearing of interested parties, the Final Classification project will be announced by any written means to all interested parties.

After communicating the provisional list of the results of the evaluation, candidates have a period of 10 working days to express their opinion in a preliminary hearing of interested parties.



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Application deadline and submission of applications: The tender is open from 16 of January to 9th of February of 2024 and the results of the selection will be published by 16th of February of 2024.

Applications must be formalized, obligatorily, by sending an application letter with the following documents:

- Curriculum vitae;
- Qualification certificate
- Letter of interest
- Letter of recommendation

For the purposes of application, the evidence may be replaced by a declaration of honor signed by the candidate, but the failure to demonstrate that evidence, in the contracting phase, possession of the required degree on the deadline for application or the non-presentation of proof of enrollment in the study cycle or non-degree course, for scholarships with this component, imply the cancellation of the candidate's application.

Academic degrees obtained in foreign countries require registration by a Portuguese Institution in accordance with Decree-Law no. 66/2018, of August 16 and Ordinance No. 33/2019, of January 25th.

The presentation of the certificate is mandatory for the signing of the contract. More information can be obtained at: <https://www.dges.gov.pt/pt/pagina/recognition?plid=374>

Applications must be sent by email, with the reference CIMA/BII3/2023 to:

Prof. Feliz Manuel Barrão Minhós

Department of Mathematics, University of Évora

e-mail : dircima@uevora.pt