

CALL FOR AWARDING RESEARCH FELLOWSHIPS WITHIN PROJECT GRANTS AND R&D INSTITUTIONS

One Research Fellowship

One (1) Research Fellowship(s) for Master is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution GADgET – Online Gambling Addiction Detection, DSAIPA/DS/0022/2018, financed by national funds by FCT / MCTES (DSAIPA) under the programme Data Science and Artificial Intelligence in the Public Administration Evaluation Panel, under the following conditions:

1. **Scientific Area:** Computer Science
2. **Requirements for admission:** i. Master in Computer Science or related area; ii. Registration in a PhD in Computer Science or related area.
3. **Factors preferred:** i. Previous participation in research projects involving Genetic Programming; ii. Experience in implementation of Genetic Programming methods; iii. Experience in the writing of scientific documents in English.
4. **Work plan:** The European Commission highlighted the need for regulatory policies to aid in the detection of pathological gambling behaviors, citing “a responsibility to protect those citizens and families who suffer from a gambling addiction”. In Portugal, the Gambling Inspection and Regulation Service is responsible for the control and regulation of online gambling and betting. To comply with operational objectives, this authority receives, on a daily basis, all data related to online gambling activities pursued by every user on every online platform with services that are accessible to Portuguese citizens. The objective of this project is to implement an AI (Artificial Intelligence)-based system that could capitalize on the vast amount of data collected every day and analyze online user behavior to model and detect the behaviors associated with addicted gamblers. Successful implementation of the system and its integration with the system currently in use by the gambling control authority will enable efficient modeling and detection of online user behaviors associated with gambling addiction. Armed with this information, the authority could deploy all actions it regards as necessary. The Gambling Inspection and Regulation Service will provide access to the database of the data related with online gambling and betting activities for the candidate and the other project members may accomplish the projects’ objectives. Hence, the successful candidate will have to deal with big amounts of data, throughout the whole data lifecycle, i.e., since its gathering to its analysis and interpretation. The successful candidate needs to have strong technical expertise in data pre-processing/treatment, exploratory and predictive analysis, machine learning and AI. One of the most important aspects of the work is to be able to develop and apply advanced machine learning methods to the data meanwhile collected and stored. Of particular importance for this work plan is the Genetic Programming (GP) family of methods, for their great power and versatility, as well as the explanatory potential of the evolved models.
5. **Legislation framework:** Statute of the Scientific Research Fellowship, in accordance with Law 40/2004, of 18 August, as amended and republished by Decree-Law No. 202/2012 of 27 August, and as amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of 9 July; And also by the FCT, I.P. Fellowships Regulation, in force (<https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT.pdf>) and **FCiências.ID** Fellowship Regulation, as approved on 23rd February 2017.
6. **Place of work:** The work will be developed at the Faculty of Sciences of the University of Lisbon under the scientific guidance of Professor Sara Silva.

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7. **Fellowship duration:** This position is initially opened for 6 months and will begin on June, 2019 . The fellowship contract may be renewed for more 30 months, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.
8. **Monthly allowance:** The fellowship amounts to € 989.70 ,according to table values of the fellowships awarded directly by the FCT, IP. (<http://www.fct.pt/apoios/bolsas/valores>).
The fellowship holder will have a personal accident insurance and, if not covered by any social protection scheme can ensure the right to social security through adherence to the voluntary social insurance scheme, pursuant to Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social.
The fellowship will be paid monthly by bank transfer.
9. **Selection method:** Candidates will be assessed by the quality of their CV 40% and the specific preferred factors specified in item 3 above, namely, previous participation in research projects involving Genetic Programming (25%), experience in implementation of Genetic Programming methods (25%) and experience in the writing of scientific documents in English (10%),
10. **Selection Committee:** Sara Silva, FCUL (President), Mauro Castelli, NOVA IMS (1st Effective Member), Leonardo Vanneschi, NOVA IMS (2nd Effective Member), Alcides Fonseca, FCUL (1st Alternate Member) and Cátia Pesquita, FCUL (2nd Alternate member).
11. **Publication/notification of results:** The final results of the evaluation will become public, through ordered list *final grade obtained* which will be posted at the entrance hall of the **FCiências.ID**, located at the Faculdade de Ciências da Universidade de Lisboa, C1 bldg – 3rd floor, Campo Grande, 1749-016 Lisboa, and the selected candidate will be notified by *e-mail*.
12. **Deadlines:** This call for applications is open from 17th April to 3rd May 2019
13. **Application:** Applications may be sent via e-mail to sara@fc.ul.pt, by attaching the following documents: Curriculum vitae, certificates and other documents considered relevant.
Applications may also be sent by mail to sara4silva5@gmail.com.

NOTE: Please note that Degrees obtained in foreign countries need a Portuguese Recognition certificate issued by a Portuguese high degree Institution, according to the [Decree-Law nr. 66/2018](#), of august 16th and the [Ministerial Order nr. 33/2019](#), of January 25th. The presentation of such certificates is mandatory for contract signature. More information can be obtained in: <https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition>.