Joana Sofia Baião Vieira

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EDUCATION

University of Coimbra   Coimbra, Portugal
Integrated Master's in Biomedical Engineering   *Sep. 2017 - Oct. 2022*

- Bachelor's degree in Biomedical Engineering
- Master's degree in Clinical Informatics and Bioinformatics.
- Relevant coursework: Medical informatics, Machine Learning, Statistics and Databases

Training course in Computational Biology   *July 2020 - Oct. 2020*

- The course covered the application of computational methods (computational structural biology, simulation, and modeling) in the investigation of biological systems.

EXPERIENCE

CISUC   Coimbra, Portugal
Research Fellow   *Nov. 2020 - Sep. 2022*

- Developed a Machine Learning algorithm that can predict the course of multiple sclerosis in a specific time window, considering results from a single visit and sequences of consecutive visits (time series). The pipeline was implemented in Python using the Scikit Learn and Keras libraries.
- Exploration of explainability methods to explain the overall behaviour of the developed Machine Learning models and specific predictions for particular patients.

CFisUC   Coimbra, Portugal
Research Fellow   *July 2020 - Oct. 2020*

- Developed an algorithm that, from 3D views of a vascular network, automatically calculates the number of vessels, their diameter and the number of bifurcations. This algorithm was developed using Python.

PROJECTS AND LEADERSHIP

jeKnowledge   Coimbra, Portugal
CEO   *May 2021 - May 2022*

- Led a Junior Enterprise with 55 students in the development of projects (development, data science and design), workshops and events in the tech field.
- Developed and supervised the development of 68 external and internal projects over one year.
- Increased internal and external growth and the quality of the work developed. As a result, in 2022, jeKnowledge was finalist in the jeniAL Awards in the category of most innovative Junior Enterprise.

Innovation Department Coordinator   *Feb 2021 - May 2021*

- Led jeKnowledge's innovation department
- Coordinated the social media team and the different events of the first semester of 2021 (bluesessions, AI Sunsets, Shift APPens, .works, and jeKnowledge Academy).

Innovation Consultant   *Apr 2019 - Feb 2021*

- Project Manager of Porto Blockchain Conference. This was the first edition of the two-day online conference that brought together more than 100 blockchain enthusiasts and experts.
- Logistics team of the data science hackathon Data, Set, Go!.
- Project Manager of jeK Magazine 1st-4th editions.

NEDF - AAC   Coimbra, Portugal
Collaborator in the group of Career Opportunities   *Sep. 2018 - Sep. 2019*

- Organisation of a series of career skills workshops (CV and LinkedIn, time management, and MySQL) and activities (job fair and ICNAS visit).

SKILLS AND TECHNOLOGIES

Languages and Technologies	Python (e.g. Pandas, NumPy, Scikit Learn, Matplotlib, Seaborn, Keras), Matlab, SQL, R, Java, HTML/CSS, PHP, JavaScript
Languages	**Portuguese**, English