João Pereira

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EXPERIENCE

Jul 2020 to May 2021

Research fellowship,
Instituto Nacional de Saúde Doutor Ricardo Jorge (Portugal),
Grant number: Projeto nº 692 2ª edição do RESEARCH4COVID, FCT, Portugal.

EDUCATION

2019 - 2022 | **Master's degree in Bioinformatics and Applications to Life Sciences**,
University of Trás-os-Montes and Alto Douro (Portugal),
Final grade: 16.

2015 - 2019 | **Batcheler's degree in Biochemistry**,
University of Trás-os-Montes and Alto Douro (Portugal),
Final grade: 13.

TECHNICAL SKILLS

</> Programming

Intermediate knowledge

R – Statistical analysis, mathematical models, OOP, package development, Shiny.

Python – Statistical Analysis with Pandas, OOP, basic machine learning using TensorFlow and Keras.

Basic knowledge

C, Java, Matlab, SQL, Arduino.

Typesetting

LaTeX, Markdown.

Tools

Power BI, Hugo framework, Windows and Linux, Intermediate Microsoft Office and LibreOffice.

Languages

Portuguese – native speaker

English – B2

ACADEMIC/SCIENTIFIC WORK

🏆 Distinctions

Best Porster – Portuguese National Statistics Meeting (SPE21), Evora 2021.

📄 Publications

[May 2021]	Mathematical Modelling of the Impact of Non-Pharmacological Strategies to Control the COVID-19 Epidemic in Portugal; *Constantino Caetano, Maria Morgado, Paula Patrício, João Pereira, Baltazar Nunes*; doi:10.3390/math9101084
[Nov 2021]	The impact of vaccination on the evolution of COVID-19 in Portugall; *Beatriz Machado, Liliana Antunes, Constantino Caetano, João F. Pereira, Baltazar Nunes, Paula Patrício, M. Luísa Morgado*; doi:10.3934/mbe.2022043
[Oct 2022]	Measuring the impact of COVID-19 vaccination and immunity waning: a modelling study for Portugal; *Constantino Caetano, Maria Luísa Morgado, Paula Patrício, Andreia Leite, Ausenda Machado, André Torres, João Freitas Pereira, Sónia Namorado, Ana Sottomayor, André Peralta, Baltazar Nunes*; doi:10.1016/j.vaccine.2022.10.007

Preprints

[Mar 2022]	COVID-19 Hospitalisation in Portugal, the first year: Results from hospital discharge data; *João F. Pereira, Constantino Caetano, Liliana Antunes, Paula Patrício, Maria Luísa Morgado, Baltazar Nunes*; doi:10.1101/2022.03.03.22271349

📑 Other works

Poster presentation – *Portuguese National Statistics Meeting (SPE 2021), Évora (13–16 Outubro, 2021).*
title: "COVID-19 Hospitalization in Portugal: Results from hospital discharge data"

Seminar presentation – *Ciclo de Seminários em Matemática Aplicada e Ciência de Dados (CS-MACD).*
title: "Análise de dados COVID-19 em Portugal", 7 de October 2022, UTAD.
link: https://sites.google.com/view/cs-macd/home