João Pereira

✉ pereira.jpf96@gmail.com   github.com/Pereirajpf
📞 966 246 182   0000-0001-9937-6144
@ pereirajpf.github.io   /joão-pereira-31692a251

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, Windows and Linux, Intermediate Microsoft Office and LibreOffice.

🔤 Languages

Portuguese – native speaker

English – B2

ACADEMIC/SCIENTIFIC WORK

💰 Funding

Research Grant – Projeção do impacte das medidas não-farmacológicas de controlo e mitigação da epidemia de COVID-19 em tempo real (COVID-19 in-CTRL), Grant number: Projeto nž 692 2ł edição do RESEARCH4COVID, FCT, Portugal.

🏆 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

Preprints

[Dec 2021] 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:10.1101/2021.12.10.21267618

[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 (1316 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