

Highlights

- Lives in **London, UK**. Has indefinite leave to remain.
- Research interests: AI-safety, alignment and interpretability.
- Main programming languages: Python and Rust. See [my GitHub profile](#).
- Languages: Portuguese (native), English (fluent). Some knowledge of Ukrainian, Hungarian and French.

Education

- **PhD** in Statistics (University of São Paulo and UFSCar): concluded in August 2020. Was a visiting student at BME (Budapest University of Technology and Economics). [Thesis in Artificial Neural Networks](#).
- Master in Statistics (University of São Paulo and UFSCar): concluded in May 2017. [Dissertation in Bayesian Statistics](#).
- Bachelor in Economics (University of São Paulo).

Selected Publications

- Environmental and genetic predictors of human cardiovascular ageing. **Nature Comms**. (Mit Shah, Marco Inacio, Chang Lu et al, Pierre-Raphaël Schiratti). DOI [10.1101/2022.10.03.22280042](https://doi.org/10.1101/2022.10.03.22280042).
- Cardiac age prediction using graph neural networks. (Marco Inácio et al). DOI [10.1101/2023.04.19.23287590](https://doi.org/10.1101/2023.04.19.23287590).
- Distance assessment and analysis of high-dimensional samples using variational autoencoders. **Information Sciences**. (Marco Inacio, Rafael Izbicki and Bálint Gyires-Tóth). DOI [10.1016/j.ins.2020.06.065](https://doi.org/10.1016/j.ins.2020.06.065).
- NLS: An accurate and yet easy-to-interpret prediction method. **Neural Networks**. (Victor Coscrato, Marco Inacio, Tiago Botari, Rafael Izbicki). DOI [10.1016/j.neunet.2023.02.043](https://doi.org/10.1016/j.neunet.2023.02.043).
- Conditional independence testing: a predictive perspective. (Marco Inácio, Rafael Izbicki, Rafael Bassi Stern). DOI [arXiv/1908.00105](https://arxiv.org/abs/1908.00105).
- The NN-Stacking: Feature weighted linear stacking through neural networks. **Neurocomputing**. (Victor Coscrato, Marco Inacio and Rafael Izbicki). DOI [10.1016/j.neucom.2020.02.073](https://doi.org/10.1016/j.neucom.2020.02.073).

Work experience

- From August 2024, works as a **Systems Engineer** at **Cloudflare**.
- From March 2023 to August 2024, worked as a **Senior Data Engineer** at Stable, a parametric insurance startup.
- From November 2021 to March 2023, worked as a **postdoctoral researcher** at **Imperial College London**: Python programming on large datasets with graph data: deep learning, using Pytorch and graph neural networks.
- From February to November 2021, worked at Boa Vista (now Equifax) as a member of the **Advanced Analytics** department.
- In 2021, taught a 20 hours course on cloud computing at Metropolitan University of Campinas.
- From 2014 to 2017, volunteer member of the **Stan** development team (platform for **Bayesian** statistical modeling and high-performance statistical computation), using C++ and Python.