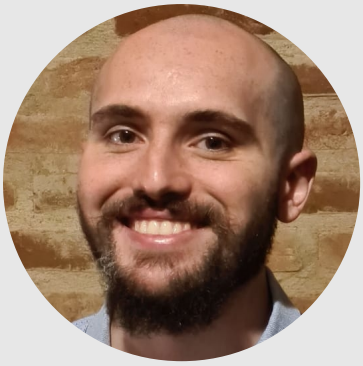

Pedro Gomes Branquinho

Engineering Physicist

October, 07, 1997

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About me

I have interests in the areas of applied scientific programming, a passion of which I developed in my graduation. Regarding science, I study the intersection of Statistics and Differential Equations and numerical tools. The Open Source movement has changed my life, in regard to the relashionship to computers. I heavily use the fruits of this enterprise, and I participate in the community. I'm also a member of the ACM, Association for Computing Machinery.

Skills

- R
- Git
- Scripting (Bash, et al.)
- Clojure and ClojureScript
- Julia
- Python
- LaTeX
- Emacs

Professional Interests

- Data Science - Recommender Systems, Hypothesis testing, PCA;
- Mathematical modeling of dynamic systems (ODEs/PDEs);
- Operational Reaseach algorithms (OR-Tools);
- Webapp Applications using Machine Learning;
- Linux Systems automation, pipelines (System Administrator);

Formal Education

2016 - 2021 Graduation — São Paulo University, USP
Engineering Physics

Eletronic Publications

2021 Industry (Flow Finance) - Automate billing and Ledger history.
2021 Industry (Lupo S.A.) - Automate technical reports with Clojure/LaTeX.
2020 Machine Learning, with R - while enrolled in Multivariate Statics.
2020 Introduction to LaTeX, P1.
2020 Essential Commands in LaTeX, P2.
2020 Bibliographical References, Citations and Beamer Presentations, P3.
2020 A Minicourse on LaTeX - Material available on YouTube (Portuguese).

Extracurricular Experiences

2021 — *50 personal projects and collaborated in 26.* — GitHub
My current status on GitHub (08/2021)

2020 — *Performance (Really) Matters* — ACM
Emery Berger on the use of Scalene to perform software optimization.

2020 — *International Congress on Funcional Programming* — Penn University
I learned about the state of the art on Programming Languages.

2020 — *Introduction to Git and GitHub* — Coursera
Part of the specialization, *Google IT Automation with Python*

2019 — *Clojure for the Brave and True* — Livro Texto
Introductory self-study of Clojure.

2018 — Arch Linux Install — Linux Architecture
I learned how to install Linux and configure a hole functional Desktop; used systemd, DWM as window manager and Emacs as my editor.

2017 — Emacs, SLIME, Common Lisp — Open Source
When I started my interest on programming and Funcional Languages. I followed the book "ANSI Common Lisp", *Paul Graham*.

2017 — Ubuntu Linux — Primeira Instalação
My objective was to use Emacs, which do not run smoothly on Windows.

Languages and Fluency

Portuguese: Native.

English: I read, speak and write at ease.

Mandarin: I read, speak and write at HSK1-2 level.

Cultural Interests

The most influential books for me were "Science and Sanity', *Alfred Korzibsky*; "The Conquest of Happiness", *Bertrand Russell*; "Discourse on the Origin and Basis of Inequality Among Men ", *Jean Jacques Rousseau*.

I have read almost throughout "A Book of Set Theory", *Charles Pinter*. And, "The Qualitative Theory of Ordinary Differential Equations", *Fred Brauer, John A. Nohel*.