

# Jorge António

Lisboa, Portugal

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Software Developer/Data Scientist

## Professional Experience

- September 2020-Present **Penedo Capital**, *Software Developer/Data Scientist*.
- 2019-2020 **Université de Strasbourg**, *Post-doctoral researcher*.
- 2016-2019 **IMT, Université Paul Sabatier**, *Doctoral Student/Teaching Assistant*.

## Education

- 2016-2019 **IMT, Université Paul Sabatier, Toulouse**, *Ph.D. in Mathematics*, Defended on June 28th, 2019.  
Advisor: Bertrand Toën, IMT Toulouse (Prix Sophie Germain de l'Institut de France Académie des Sciences & Recipient of ERC-senior grant)
- 2014-2016 **Université Pierre et Marie Curie, Paris**, *M.Sc. in Mathematics*, GPA: 19/20.  
Advisor: Dennis Gaitsgory, Harvard
- 2011-2014 **Instituto Superior Técnico, Lisbon**, *Bachelor of Science in Mathematics*, GPA: 19/20.  
Thesis: Advisor: Gustavo Granja, IST Lisbon

## Relevant skills

### Software:

- **Programming Languages:** Python, Javascript, C/C++, Javascript/Typescript, Haskell, Java, Solidity, Julia;
- **Other relevant skills:** Bash, GitHub, Docker, Linux/Unix, Shell scripting, PostgreSQL, LaTeX.

### Blockchain:

- **Blockchains:** Bitcoin, Ethereum, Cardano;
- **Smart contracts** Solidity, ERC tokens, Plutus, Cardano native tokens;

### Statistical methods:

- **Inference** Statistical Inference, Expectation-Maximization algorithms, Variational Inference;
- **Bayesian methods** Bayesian methods for Machine Learning, Gaussian mixtures and Bayesian optimization;
- **Markov Chains** Markov chains, Monte Carlo simulation, Bayesian Optimization;
- **Variational encodes** Variational autoencoders and Bayesian neural networks.

### Languages:

- Portuguese - Native;
- English - Proficient;
- French - Proficient;
- Spanish - Advanced communication skills;

## Relevant Teaching Experience

- Teacher assistant on a module on *Computational mathematical methods in Python*;
- Linear algebra for undergraduates;
- Integral and Differential Calculus for undergraduates;
- Probability theory for undergraduates.