

Looking for an AI researcher position

Experience

- 2024 - now **PostDoctoral researcher**, *AstroParticule et Cosmologie (CNRS)*, Paris, France
Application and adaptation of statistical inference algorithms to gravitational wave signals, with a focus on the polarization information.
- 2020 - 2023 **PhD Candidate (3 years)**, *Ecole Centrale de Lille, Observatoire de Paris*, France
I worked in a multidisciplinary team involving statisticians and astrophysicists. Our goal was to solve a complex astrophysical inverse problem on star formation and to provide uncertainty quantification along with estimates. We used a fully Bayesian inference approach, and covered all aspects of the inference process including observation model, choice of relevant priors, design of an adequate sampler and physical interpretation of the results. The proposed methods were applied to true telescope observations. We published our results in scientific journals and presented them in conferences, in both signal processing and astrophysics communities.
- 2019 - 2020 **Data Scientist (18-month VIE)**, *Leroy Merlin Brasil*, Sao Paulo, Brazil
As first Data Scientist of Leroy Merlin Brasil, I started by adapting classic ML projects to the needs of stakeholders from various departments such as Marketing and Supply Chain, from proof of concept to production. With the success of these first projects and the growing demand, I founded a Data Science Guild and developed it by training and hiring staff. Our Guild participated in a global Adeo Hackathon to present one of our projects to all Business Units. Projects were led following the Agile framework.
- 2018 **Data Scientist (4-month Internship)**, *La Redoute*, Roubaix, France
Creation of a sales predicting tool to improve La Redoute's dynamic pricing. I implemented a Seq2Seq model using TensorFlow and put it in production on Google Cloud Platform.
- 2018 **Research Project (6 months)**, *Ecole Centrale de Lille, CRISAL laboratory*
Research initiation with a Machine Learning project applied to X-ray imaging.

Education

- 2016 - 2019 **École Centrale de Lille - BAC+5 (Master level)**
Multi-disciplinary engineer degree with specialization in statistics with both theoretical and practical advanced-level in Machine Learning, signal processing and programming. Courses covering numerous scientific fields, including project management.
- 2014 - 2016 **Classe Préparatoire - BAC+2**, *Lycée Clemenceau*, Nantes

Skills

- Programming python (numpy, pandas, sklearn, plotly, pytorch, etc.), Git, shell, \LaTeX
Data Bases SQL, NoSQL
Soft Communication (oral, written), user centered, team spirit, Agile framework, autonomy

Languages

- French Mother Tongue
English Fluent (TOEIC : 975/990)
Portuguese Fluent