

LOANN BRAHIMI

Willing to relocate - Driving licence



Montpellier, FRANCE



+336 58 75 34 74



loanndata.pythonanywhere.com



loann.brahimi@outlook.fr



/in/loann-brahimi/



LoannData

Education

PhD., Astrophysics

Transport theory - MHD turbulence -

Computing Science

University of Montpellier

2017 - 2020 | Montpellier, France

MSc., Fundamental Physics, rank 1

University of Montpellier

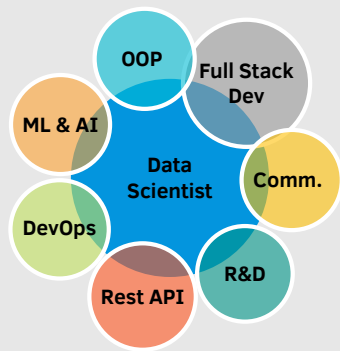
2015 - 2017 | Montpellier, France

Certifications

Deep Learning, MLOps, GANs (in progress)

Finance & Quant. Modelling (in progress)

Technical Skills



Python • Scikit-Learn • Tensorflow

C++ • Shell • \LaTeX

SQL • Django • MongoDB

Other

Languages

French (Native) - English (C1)

Reference

alexandre.marcowith@umontpellier.fr

DATA SCIENTIST - QUANTITATIVE RESEARCH

3 years of experience in data modelling, complex problems solving, development of state-of-the-art algorithms in Python and C++, data analysis and project management. Looking for a career opportunity in finance and/or high added value technologies.

Research & Development

- Background in computer science
- AI, data modelling, optimisation, analysis and visualization
- Financial markets experience

Project Management

- Team centric collaboration
- Long term planification
- KPI integration
- Reporting and communication
- French and English Fluency

Experience

Dec 2020 - Co-founder & Quantitative Developer/Researcher

Q26

- Project co-founded with three associates dedicated to the development of algo-trading systems on **Stock** and **Forex** markets.
 - Development of an **algorithmic trading** system environment in **Python**: backtester, live trading, logging and GUI system.
 - Research & Development of multiple prototypes of **trading strategy** and **technical indicators**.
- **Tools**: Python, Scikit-Learn, TensorFlow, Dash, MongoDB, MQL4, Finnhub REST API, IBKR TWS python API, SQL

2017 - 2020 PhD., Research fellow in Astrophysics

University of Montpellier

- **Thesis**: Cosmic Ray transport in the weakly ionized turbulent interstellar medium
 - Development of a numerical **transport code** in **C++** and **Python**.
 - Implementation of a **numerical non-linear advection/diffusion method** in the AMR-MHD Astrophysics code RAMSES.
 - **4 Publications in scientific journals**, research presentation at **international conferences**, summer schools about variety of subject around the thematic of **statistics**, **numerical MHD systems in Astrophysics** and **machine learning**.
- **Tools**: Python, C++, Fortran90, \LaTeX
- **Mathematics background**: Numerical Methods, PDE systems solving, Stochastic Calculus, Transport & Turbulence Theories

May '16 - Jul '16 Data Analyst, Research fellow, Characterization of the high energy Astrophysical source H.E.S.S. J1848-018

LUPM

- Environmental and multi-wavelength study of the source H.E.S.S. J1848-018 - Emission spectra reconstruction over a wide energy band, power-law fitting and **quantitative analysis**.
- **Tools**: Python, Scikit-learn, Naima, \LaTeX

Other projects

May 2015 - Science popularizer, website about Astrophysics

Physique & Réussite

- **60+ articles** for students about concepts in Astrophysics
- Average of **2000 unique users** per month and **recommended by professors to their students**

2017 - 2020 Teaching, Assistant professor, Internship manager

- **Tutorial**: 164h given to 1st and 3rd year Physics students.
- **Internship**: 2 months, master student internship management.

1994 - Personal hobbies

- **Mountain sports**: Hiking, Running, Climbing, Alpinism
- **Social**: Philosophical debates & afterworks