



Manon RIVOIRE

Polytechnique School Data
Science Master Student



23 years old



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<https://github.com/mrivoire>



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Strengths

Persistent
Hardworking
Curious
Thorough
Honest

Hobbies

Swimming (Twice a week)
Skiing (Monthly in Winter)
Running (Twice a week)
Trumpet (8 years in music school
including 4 years in orchestra)
Traveling (England, Spain, Italy,
Croatia)

Work Experience

Apr-Aug '19 **Datasciences Internship - Ministry of the Interior | Paris France**

Assignments

- Fuzzy Matching with Levenshtein Automata to improve an open-source project MatchID
- Study of Fuzzy Matching Algorithms
- Algorithms Implementation in Python
- Creation of a Research Report
- Creation of a Scientific Poster
- Oral Presentation of the Works

Sept'17- Jul'18 **C'Space 2018 with LeoFly | La Défense Paris - Tarbes France**

- National aeronautic competition sponsored by the CNES
- Studied the deployment of the parachute, controlled descent and safe landing of a student designed rocket
- Participated in building the physical deployment system

Sept'17-Mar'18 **Aeronautic Association (LeoFly) at ESILV | La Défense Paris, France**

Treasurer : Tracking association expenses and writing reports

Jun - Aug'18 **Research Internship - De Vinci Research Center (DVRC) at ESILV | La Défense Paris, France**

- Researched and analyzed mathematical models to predict energy consumption of IoT devices
- These models were used to build a forecasting program with Markov Chains
- The obtained results have been used and published in a conference article: G. Guérard et H. Pousseur, « JADE modeling for generic microgrids », in 13th International KES Conference, Saint Julians, Malta, 2019

Jun - Aug'17 **Operator Internship - DeclicNet | Paris, France**

- Improved a VBA program which manipulates Excel files to reduce errors and increase efficiency
- Helped recruit technical personnel
- Maintained cost accounting spreadsheets

Education

2019-2020 **Master 2 in Mathematics and Datasciences**
Polytechnique School Palaiseau France

2016-2020 **Engineering School Leonardo Da Vinci (ESILV)**
La Défense Paris France

2014-2016 **"Classes Préparatoires aux Grandes Ecoles (CPGE)" Champollion High School | ECS Sept 2016 - PCSI Sept 2015**
Grenoble Rhône-Alpes France

2011-2014 **Scientific High School Diploma with Distinction Pierre Béghin High School**
Moirans Rhône-Alpes France

Skills

- Languages : French (Native) | English (Fluent) | Italian (Operational)
- Programming : C++ | C# | Python | LaTeX (advanced), R | VBA (intermediate)
- Software : Ubuntu | Visual Studio | RStudio | CodeLite | InkScape | Office
- Mathematics and IT : Financial Mathematics | Insurance Mathematics | Machine Learning | Optimization for Datasciences | Deep Learning

Projects

- Implementation of an Asian Options Pricer in the second year of engineering cycle setting
- Involvement in a project of creation of an experimental rocket