Julien Audiffren, Ph.D. & Pr. D.

Senior Researcher & Senior Lecturer - Fribourg University

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French, Resident Permit C

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Age 39

https://jythen.github.io/
 Fribourg, Switzerland



Profile

Senior Lecturer and Senior Researcher in Machine Learning and Data Mining. Research interests include in Neuro-Symbolic AI, applications to biomedical data, and Large Language Models. Project lead of several data analysis and AI projects, particularly focused on biomedical applications, AI, and Large Language Models.

Professional Experience

Senior Researcher and Senior Lecturer

Université de Fribourg

Septembre 2019 -

- Fribourg, Suisse
- Topics. Machine Learning and Data Mining, application to biomedical data, Larges Languages Models
- Selected Projects.
 - XMLC: Automatic Labeling of documents.
 - DOS: Quantification of human perception with neuro-symbolic Al.
 - Simulkick: Optimal athlete training with AI and augmented reality.
 - X-LLM: Analysis of LLMs'reasoning capabilities

Research Associate

Applied Mathematics laboratory (CMLA), ENS Paris Saclay, France.

- Septembre 2014 Aout 2019
- Paris, France
- Topics. Machine Learning and Data Mining, application to biomedical data
- Selected Projects.
 - 5P: Prediction of frailty among community dwelling elderly.
 - Smartcheck: Al-enhanced analysis of postural control.
 - Ikky: Real time stress evaluation and assisted piloting for helicopter pilots.

Posdoctoral Researcher

QARMA laboratory, Aix-Marseille University

- Mars 2012 Aout 2014
- Marseille, France
- **Topics.** Theory of Machine Learning, Kernel theory and Multi-Armed bandits.

Main Skills

- Machine Learning
- Probability and Statistics
- Biomedical Data Analysis
- Scientific supervision

Exp. Programmation

Python 11 years SQL 7 years R 3 years

Langages

French C2 Mother tongue

English C2 German B1

Main Research topics

- Theory of Machine Learning
- Explainable AI
- Al for biomedical applications
- Large Language Models

More Information



40+ scientific publications

• https://scholar.google.com/
citations?user=7jcEx7cAAAAJ&hl=
en

• on



4 Patents

Around AI and data mining in medical applications.



Scientific Communication

- Co-founder of the 13minutes Marseille
- Writer for the Data Analytic Post

Education

Habilitation Thesis (Venia Legendi) in Machine Learning University of Fribourg

= 2024

Fribourg, Switzerland

PhD in Mathematics, Probability, and Statistics ENS Cachan and Aix-Marseille University

2011

Paris and Marseille, France

Master in Mathematics, Probability and Statistics

ENS Cachan

= 2007

Paris, France

Aggregation in Mathematics and Computer Science ENS Cachan

2005

Paris, France

Bachelor in Mathematics

ENS Cachan

2005

Paris, France

References

Philippe Cudré-Mauroux Professor, Fribourg University

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Liva Ralaivola

Lead Researcher AI, Criteo

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Laurent Oudre

Professor, ENS Paris Saclay

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