

I have experienced working at the intersection of industry and academy, with a strong background in probability, statistics and machine learning. During this period, I have published 10+ papers in international journals/conferences ([link to my webpage](#)) and developed skills in managing and conducting AI projects, with a focus on Trustworthy AI. I want to use these skills to help conducting ambitious projects and creating outstanding products powered by the latest technologies.

Experience

- 2021 – 2022 **althiqa**, *Co-founder, COO and Head of Research.*
- **Development of a SaaS dedicated to AI Evaluation for Enterprises**
Python API | Django backend | AWS | CI/CD pipeline. Links: [SaaS](#), [Github](#).
 - **Scientific monitoring of latest research on Trustworthy AI and algorithms implementation**
Robustness | Fairness | Explainability
 - **Publication of two research papers at NeurIPS 2022**
 - **Business development of the company**
Go-to-market | Commercial pipeline (5 leads, 15 beta testers) | Pitch deck
 - **Management of a team of five people**
ML Engineer | Backend | Frontend | UX/HCI | Design
 - **Communication on social media and seminars/conferences**
Link: [Medium](#).
- 2020 – 2022 **Télécom Paris**, *Post-doctoral Researcher.*
- **Fairness for face recognition – industrial one-year project with Idemia**
Development of a cutting-edge algorithm able to mitigate gender and racial biases of deep convolutional neural networks. The resulting work has been published at ICML 2022. [Link](#).
 - **Fairness for Natural Language Processing**
Development of an algorithm able to correct for biases (gender, age...) in the context of textual data. Published at ACL 2022. [Link](#).
 - **Learning in the context of biased datasets**
Development of a ML meta-algorithm able to learn from biased data. Published at ICML 2021. [Link](#).
 - **Online Matching for Online Advertisement**
Development and analysis of an online advertising strategy. Published at NeurIPS 2021. [Link](#).
 - **Supervision of students industrial projects**
 - Safran - Active Learning for predictive maintenance.
 - Air Liquide - Causal ML for personalized medicine.
 - Sicara - Keypoints detection for Computer Vision.
- 2017 – 2020 **ENS Lyon - Université Paris Nanterre, PhD.**
- Random Matrices and Random Graphs. 5 research articles in top international conferences | 15+ talks at seminars and conferences | Teaching assistant (algebra, statistics and analysis for bachelor students).

Education

- 2013 – 2017 **ENS de Lyon**, *Élève normalien.*
- **Master in advanced probability** (Stochastic processes, Brownian Motion, Statistical physics...)
 - **Bachelor in General Mathematics** (Algebra, Geometry, Analysis, Probability, Statistics...)

Selected works

- Publications
- *What are the best systems? New perspectives on NLP Benchmarking.* NeurIPS 2022. [Link](#).
 - *Beyond Mahalanobis-Based Scores for Textual OOD Detection.* NeurIPS 2022. [Link](#).
- Broader audience
- *Prendre la mesure de l'IA. In the geopolitical review Le Grand Continent (in french).* [Link](#).
 - *Biais de représentativité en intelligence artificielle. In the review Le Monde (binaire).* [Link](#).
- Oral
- *Out-of-Distribution detection in the age of Transformers.* At Dataiku. [Link](#).
 - *Disentangled representations to achieve fairness in NLP.* At Naver Labs. [Link](#).

Skills

- Knowledge Probability, Statistics, Machine Learning, Natural Language Processing, Computer Vision.
- Programming Python (Scikitlearn, Pytorch, HuggingFace, Streamlit...), Django, API REST, AWS, Github.
- Soft skills Scientific communication, scientific writing, team worker, initiative taker.
- Languages French (native), English (fluent).