AUDREY POINSOT

CONTACT INFO

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ABOUT ME

I am a second-year Ph.D. student at INRIA (Paris, France) under the supervision of Marc Shoenauer and Alessandro Leite.
At the **intersection of Causality and Machine Learning**, my current research project aims to improve decision-support tools with a specific interest in **robustness** and **uncertainty**. Having worked as a consultant for a year before starting my Ph.D., my research is driven by concrete applications.
My goal is to **democratize the use of causal reasoning in statistical analysis** for decision-making by providing tools to create value easily, sustainably, and fairly.

EXPERIENCE

PH.D. STUDENT — 2022-today

INRIA Saclay, Paris Saclay University | *Gif-sur-Yvette, France*

- Thesis topic: "**Causal Uncertainty Quantification under Partial Knowledge and Small Data Regimes**"
- Supervised two Master students on **Causal Data Generation** projects

DATA SCIENTIST CONSULTANT — 2021-2022

Ekimetrics | *Paris, France*

- **Interpretability and Time Series**: Decomposition of marketing actions' uplifts with SHAP on predictions of time series revenues
- **Few-shot Learning in NLP**: Use of semi-supervised methods for Aspect Based Sentiment Analysis applications

DATA SCIENTIST INTERN — 2020

Schlumberger | *Cambridge, UK*

- Performed data-driven prognostics for Survival Analysis
- Resulted in the deployment of the solution on more than 14 equipment

DATA SCAN TOOL ENGINEER INTERN — 2019

Schlumberger | *Paris, France*

- Build a physical model of signal propagation in transmission lines to generate a dataset
- Applied Machine Learning algorithms to detect and locate failures

EDUCATION

MSc in Applied Mathematics for Data Science **2020-2021**
CentralSupelec, Paris Saclay University | *Gif-sur-Yvette, France*

- Graduated with a GPA of 4.2, top 10%
- Thesis in collaboration with the Paris **BNP** AI Lab: "GNNs for Financial Product Recommendation"

Undergraduate engineering cycle **2017-2019**
CentralSupelec, Paris Saclay University | *Gif-sur-Yvette, France*

- Graduated with a GPA of 4, top 10%

Preparatory classes **2015-2017**
Lycée Pierre de Fermat | *Toulouse, France*

PUBLICATIONS

Articles

A. Poinsot and A. Leite (2023). "A Guide for Practical Use of ADMG Causal Data Augmentation". In: *Workshop on the pitfalls of limited data and computation for Trustworthy ML, ICLR 2023*. URL: https://openreview.net/forum?id=kBcAZcKypug.

CONFERENCES

ICLR WORKSHOP ON PITFALLS OF LIMITED DATA AND COMPUTATION FOR TRUSTWORTHY ML **May 2023**
Kigali, Rwanda

- Presented a poster

THEMATIC QUARTER ON CAUSALITY **Spring 2023**
Paris Grenoble, France

- Chaired some sessions
- Presented a poster

ELLIS DOCTORAL SYMPOSIUM **Sept 2022**
Alicante, Spain

- Presented a poster

MACHINE LEARNING SUMMER SCHOOL (MLSS22) **June 2022**
Krakow, Poland

- Presented a poster

SKILLS

Program Languages
- Professional level: Python (PyTorch, sklearn, numpy, ...)
- Intermediary level: R, Java, C++

Data Science Frameworks Slurm, Azure Databricks, Dataiku, Google Cloud

Languages
- French (native)
- English (full professional proficiency)
- Spanish (basic)

REFEREES

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