

# 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. funded by this same company, my research is driven by concrete use cases and applications.

My goal is to provide advice and knowledge in order 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 & Ekimetrics | 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
- Applied Machine Learning algorithms to detect and locate failures simulated through the physical transmission line model

## EDUCATION

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### MSc in Applied Mathematics for Data Science

2020-2021

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

- Graduated with a **GPA of 4.2/4, top 5%**
- Thesis in collaboration with the Paris BNP AI Lab: "GNNs for Financial Product Recommendation"

### Undergraduate engineering cycle

2017-2019

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

- Graduated with a **GPA of 4/4, top 10%**

### Preparatory classes

2015-2017

*Lycée Pierre de Fermat | Toulouse, France*

## PUBLICATIONS

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### Articles

**A. Poinot** 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

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### 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*

- Gave a talk, **Reconciling Mix Marketing Modeling and Causal Inference**
- Organised a challenge, **Estimating Marketing Uplifts as Heterogeneous Treatment Effects with Meta-Learners**
- 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

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### 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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### Alessandro Leite

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