

Julien DELAUNAY

PhD



Personal

Nationality: French
26 years old

Open to remote work

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Areas of Specialization

- Machine Learning
- Natural Language Processing
- Human-Computer Interaction
- Explainability / Interpretability

Programming

Python
Data Vis
GIT
L^AT_EX
Java
SQL
R, HTML



Technical Skills

ML (Scikit-Learn)



NLP (Spacy, GPT)



LLM (Transformers)



TensorFlow



MatPlotLib



Strengths

- Dedicated and sociable
- Strong Communication
- Organized and efficient
- Project independence

Languages

French | mother tongue
English | C2
Spanish | B2

Interests

• Travelling
(Europe, USA, China, Israël)

• Practice Sports
(Climbing, Padel, Swimming)

ABOUT ME

A dedicated researcher with a strong focus on **Machine Learning** and **Natural Language Processing**. Proficient in generating **explanations** for ML models, excelling in handling **large datasets** and developing impactful **Python** ML models. I have experience in **team management**, **inter-disciplinary** collaboration, with a proven ability to **teach** computer science and ML topics.

I am actively pursuing a position in NLP or generative AI, ready for **immediate** relocation to Spain. Passionate about contributing to innovative projects in the field.

SHORT RESUMÉ

2020-2023

PhD Student

INRIA RENNES · France 📍

I conducted research in **machine learning**, specializing in generating **explanations** for complex models. I published in international conferences, led **user studies**, developed techniques for **NLP**, and collaborated with a **diverse team** to advance the **understanding** and **usability** of AI systems.



2022-2023

Collaborative Researcher

AALBORG UNIVERSITY · Denmark 📍

Hosted by Dr. Niels van Berkel, I led **user studies** to gauge the impact of **different explanation techniques** and **representation on users**. This work is currently under review in a top-tier international conference. This experience enriched my collaborative and research skills.



DEGREES

2020

Research Master

RENNES UNIV. · France 🏛️

2019

Master in AI

SHERBROOKE · Canada 🏛️

2018

CS & Econ Bachelor's

RENNES UNIV. · France 🏛️

TEACHING

2023

"Machine Learning in Python", at: *Institut Agro Rennes*

2021-2023

"Short-term Prediction Method in Python", at: *Rennes Univ.*

2020-2022

"Object-oriented Programming in Java", at: *Rennes Univ.*

2021

"Neural Network in Python", at: *ENSAI, Rennes*

INTERNATIONAL PUBLICATION

2023 EMNLP

Global Explanation of Textual Models through Cooperative Generation

DELAUNAY J., CHAFFIN A. ·

We introduced the first global explanation technique for **textual data** that leverages co-operative **generation methods** to be data agnostic.

2023 CHI

Adaptation of AI Explanations to Users' Roles.

DELAUNAY J., GALARRAGA L., LARGOUËT C., VAN BERKEL N. ·

We explore the importance of accounting for diverse **user roles** in the design of explainability-focused user experiments.

2022 CIKM

When Should We Use Linear Explanations?

DELAUNAY J., GALARRAGA L., LARGOUËT C. ·

We developed APE, a method to assess the suitability of **linear explanation** to approximate locally a complex model.

2022 IDA

s-LIME: Reconciling Locality and Fidelity in Linear Explanations.

GAUDEL R., GALARRAGA L., DELAUNAY J., ROSE L., BHARGAVA V. ·

We introduced a method that improves LIME, a popular method for explaining ML models by balancing **fidelity** and **locality** in explanations.

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in julien-delaunay-phd

github.com/j2launay