Julien **DELAUNAY**

PhD



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, interdisciplinary 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

| 2020-202 | | PhD Student INRIA RENNES · France I conducted research in machine learning, specializing in generating ex- planations for complex models. I published in international conferences, led user studies, developped techniques for NLP, and collaborated with a diverse team to advance the understanding and usability of AI systems. | | | | | | | |
|----------------|--|--|-----------|--|---------------------|--|--|--|--|
| 2022-2 Degr | | 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. | | | | | | | |
| | | | | J | | | | | |
| 2020 | Research Master Rennes Univ. · France 🏛 | | 2023 | "Machine Learning in Python", at: Inst. Agro Rennes | | | | | |
| | | | 2021-2023 | "Short-term Prediction Method in Python | | | | | |
| 2019 | Master in Al | | 2020 2022 | at: <i>Rennes Univ.</i> | | | | | |
| | Sher | Sherbrooke · Canada 🏛 | 2020-2022 | "Object-oriented Programming in Java", at: <i>Rennes Univ.</i> | | | | | |
| | | | | | | | | | |
| 2018 | | | 2021 | "Neural Network in Python", | , at: <i>ENSAI.</i> | | | | |
| 2010 | | Econ Bachelor's | 2021 | "Neural Network in Python", <i>Rennes</i> | , at: <i>ENSAI.</i> | | | | |
| 2010 | | Econ Bachelor's IES UNIV. • France 🏦 | 2021 | , | , at: <i>ENSAI.</i> | | | | |

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. <u>DELAUNAY J</u> , 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? <u>DELAUNAY J</u> , GALARRAGA L, LARGOUËT C. · We developed APE, a method to assess the suitability of linear explanation to approxi- mate locally a complex model. | | | | |
| 2022 IDA s-LIME: Reconciling Locality and Fidelity in Linear Explanations. GAUDEL R, GALARRAGA L, <u>DELAUNAY J</u> , ROSE L, BHARGAVA V. · We introduced a method that improves LIME, a popular method for explaining by balancing fidelity and locality in explanations. | | | | | |
| @ p | eople.irisa.fr/Julien.Delaunay/ 👔 julien-delaunay-phd | | | | |

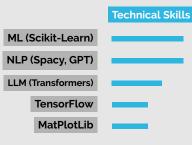
github.com/j2launay

Personal Nationality: French 26 years old Open to remote work +33 7 63 41 35 35 🖂 julien.delaunay@inria.fr

Areas of Specialization

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

| | | Programming | | | | |
|----------|---|-------------|---|---|---|--|
| Python | • | • | • | • | • | |
| Data Vis | • | • | • | • | • | |
| GIT | • | • | • | | • | |
| latex | • | ٠ | ٠ | | • | |
| Java | • | ٠ | | | • | |
| SQL | • | ٠ | | | • | |
| R, HTML | • | ٠ | ٠ | ٠ | • | |



Strenghts

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

Languages

mother tongue

French English C2 B2 Spanish

Interests

• •

 Travelling (Europe, USA, China, Israël)

• Practice Sports (Climbing, Padel, Swimming)