

Julien Romero

Associate Professor

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LINKS

linkedin.com/in/romerojulien
github.com/Aunsiels
huggingface.co/Aunsiels
[Google Scholar](https://scholar.google.com/citations?user=QWzJyZIAAAJ&hl=en)

EDUCATION

2017 - 2020, Télécom Paris

Ph.D. in Computer Science

2015 – 2017, ETH Zürich

M.Sc. in Computer Science

2013 – 2015, Télécom Paris

M.Eng. in Computer Science

LANGUAGES

- French (native)
- English (fluent)

EXPERIENCE

Télécom SudParis – Associate Professor (Applied ML/AI) · 07/2021–Present

- Co-delivered with an HR partner a **recruiter assistant** and a **job recommender**; integrated into client CRM; demonstrated measurable lifts over baselines and reduced time-to-shortlist.
- Built a **resume augmenter** that infers and verifies technical skills from public activity signals; improved discovery of latent skills and downstream match precision.
- **Fine-tuned & evaluated language models** (Hugging Face Transformers) for temporal QA and knowledge cleaning; optimized prompts/training for latency and cost.
- Led a **team of 3 PhD students**; managed **two industry partnerships** end-to-end (scoping → delivery); collaborated closely with engineering/product stakeholders.
- Head of AI programs in Télécom SudParis and IPParis

Max Planck Institute for Informatics – Postdoctoral Researcher · 10/2020–08/2021 · Saarbrücken, Germany

- Scaled **information extraction** over large web crawls; built QA over extracted triples.
- **Fine-tuned LLMs** for knowledge discovery and validation; used multimodal signals for verification.

Télécom Paris – Doctoral Candidate (Ph.D. in CS) · 09/2017–09/2020 · France

- Published in top venues; focused on IE, NLP, and graph methods.
- Created **Pyformlang**, a production-quality Python library for formal language manipulation that became the most used in its category.

Haufe-Umantis – Junior Data Scientist · 01/2017–07/2017 · St. Gallen, Switzerland

- Prototyped **people-analytics** features and recommenders within the HR suite; presented solutions to enterprise clients (incl. **Daimler**).

SELECTED PROJECTS

- **Explainable Job Recommendation (GNN)**: Built a heterogeneous graph from résumés, job posts, and behavioral signals; trained a GNN-based ranker with path-based explanations; outperformed strong baselines; deployed as a POC with an HR partner.
- **Knowledge Generation & Cleaning with LLMs**: Improved precision vs. manual curation and reduced operational overhead.
- **Financial Time-Series with Exogenous Signals**: Integrated news/sentiment features into forecasting models; improved explainability and robustness on large datasets.

OPEN SOURCE

- **Pyformlang** – Lead maintainer. 53 GitHub stars; ~81k downloads (PyPI / pypistats). Widely used for formal language manipulation in Python; adopted in coursework and research.

SKILLS

- **ML & Research**: LLMs, NLP, Information Extraction, GNNs, Recommender Systems
- **Frameworks**: Python, PyTorch, Hugging Face Transformers, LangChain, vector stores
- **Data & MLOps**: Airflow, Docker, Spark, Kafka, CI/CD, testing, monitoring, SQL/noSQL
- **Visualization**: matplotlib, Plotly
- **Collaboration**: Partner management, mentoring