

# Urchade Zaratiana

Member of technical staff at Fastino

✉ [urchade.zaratiana@gmail.com](mailto:urchade.zaratiana@gmail.com) | [📄 urchade.github.io](https://github.com/urchade)

## Professional Experience

---

### Fastino

#### MEMBER OF TECHNICAL STAFF

- Conducting research on Small Language Models (SLMs).

Reunion Island

Jul 2024 - present

### FI GROUP

#### RESEARCH SCIENTIST

- I was a research scientist at FI Group as part of my PhD study “CIFRE” contract.
- Selected projects: Knowledge Graph Construction, Cross-lingual search and QA, keyphrase and entity extraction on scientific texts, scientific taxonomy construction. (python, pytorch, transformers, Large Language Models (LLMs))

Paris, France

Dec 2020 - Jul 2024

### ASTEK

#### RESEARCH INTERN

- My research focused on the adaptation of pretrained language models such as BERT for web article recommendation. Advisor: Alexandre Pascault

Paris, France

Feb 2020 - Jul 2020

## Education

---

### Université Paris 13

#### PHD IN COMPUTER SCIENCE

- In-going PhD thesis at Laboratoire Informatique de Paris Nord (LIPN) under the RCLN team. My thesis subject is entity and relation extraction on scientific texts.
- Topics: Natural language processing, Structured Prediction, Combinatorial optimization, Probabilistic graphical models, Graph generation
- Advisors: Dr. Nadi Tomeh and Prof. Thierry Charnois

Paris, France

Jul 2021 - present

### Johannes Kepler University

#### MASTER PROGRAM IN COMPUTER SCIENCE

- Courses: Deep Learning and Neural Nets, NLP with Deep Learning, Probabilistic models, Multimedia Information Retrieval, Deep Learning in life sciences. (python, pytorch)
- Selected project: Abstractive text summarization for French. Advisor: Dr. Navid Rekarbasz

Linz, Austria

2019 - 2020

### Institut Supérieur d'Electronique de Paris

#### SOFTWARE ENGINEERING DEGREE

- Courses: Advanced algorithmics and programming, Artificial Intelligence, Web programming. (python, keras, java, javascript)
- Selected project: Home automation website. Advisor: Dr. Rafael Angarita

Paris, France

2017 - 2020

## Selected publications

---

Urchade Zaratiana, Nadi Tomeh, Pierre Holat, Thierry Charnois. 2023. **GLiNER: Generalist Model for Named Entity Recognition using Bidirectional Transformer**. *Annual Conference of the North American Chapter of the Association for Computational Linguistics, (NAACL 2024)*.

Urchade Zaratiana, Nadi Tomeh, Pierre Holat, Thierry Charnois. 2024. **An Autoregressive Text-to-Graph Framework for Joint Entity and Relation Extraction**. *Proceedings of the 38th AAAI Conference on Artificial Intelligence, (AAAI 2024)*.

Urchade Zaratiana, Nadi Tomeh, Niama El khabir, Pierre Holat, Thierry Charnois. 2023. **Filtered Semi-Markov CRF**. *Findings of the Association for Computational Linguistics: (EMNLP 2023)*.

## Student supervision ---

2023	<b>Mehdi Saissi Hassani</b> , Research intern on “Benchmarking open-source large language models (LLMs) for retrieval augmented question answering in French”.	<i>Paris, France</i>
2022	<b>Dennis Núñez Hernandez</b> , Research intern on “Data-efficient architecture for extractive question answering”.	<i>Paris, France</i>

## Awards ---

2023	<b>1st position at Wojoood Named Entity Recognition Shared task at ArabNLP@EMNLP 2023</b> , Our system is build on models ( <a href="https://github.com/urchade/Filtered-Semi-Markov-CRF">github.com/urchade/Filtered-Semi-Markov-CRF</a> ) we developed in prior research on span-based Named Entity Recognition.	<i>Singapore</i>
2024	<b>2nd position at Multilingual AI-generated Text Detection Shared task at SemEval 2024</b> , Our system is entitled “A Syntactically Motivated Architecture for Multilingual Machine-Generated Text Detection”.	<i>Mexico city</i>