

# Urchade Zaratiana

PHD STUDENT

Paris, France

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## Education

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### Université Paris 13

Paris, France

#### PHD IN COMPUTER SCIENCE

Jul 2021 - present

- 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, Deep Probabilistic Graphical Models
- Advisors: Dr. Nadi Tomeh and Prof. Thierry Charnois

### Johannes Kepler University

Linz, Austria

#### MASTER PROGRAM IN COMPUTER SCIENCE

2019 - 2020

- 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 Rekab-saz

### Institut Supérieur d'Electronique de Paris

Paris, France

#### SOFTWARE ENGINEERING DEGREE

2017 - 2020

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

## Professional Experience

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### FI GROUP

Paris, France

#### RESEARCH SCIENTIST

Dec 2020 - present

- I am at FI Group as part of my PhD study under "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))

### ASTEK

Paris, France

#### RESEARCH INTERN

Feb 2020 - Jul 2020

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

### EDF

Paris, France

#### DATAVIZ INTERN

Nov 2018 - Jan 2019

- I worked on various DataViz projects for different teams of the EDF Insular Energy Systems Division. Advisor: Benoit Georges

## Selected publications

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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, 2024*.

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

Urchade Zaratiana, Nadi Tomeh, Pierre Holat, Thierry Charnois. 2023. **GLiNER: Generalist Model for Named Entity Recognition using Bidirectional Transformer**. *ArXiv, abs/2311.08526*. (Under Review)

## Student supervision

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2023	<b>Mehdi Saissi Hassani</b> , Research intern on "Benchmarking open-source large language models 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

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2023	<b>1st position at Wofood Named Entity Recognition Shared (NER) task at EMNLP 2023</b> , Our system is built on a model we developed in prior research on span-based Named Entity Recognition.	<i>Singapore</i>
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