

Urchade Zaratiana

Member of technical staff at Fastino

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

Awards _____

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