

Urchade Zaratiana

PHD STUDENT

Paris, France

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

Education

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, 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 Rekarbasz

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

Publications

Urchade Zaratiana, Niama El Khbir, Dennis Núñez, Pierre Holat, Nadi Tomeh, Thierry Charnois. *DyREx: Dynamic Query Representation for Extractive Question Answering*. 2nd Workshop on Efficient Natural Language and Speech Processing @ Neurips 2022.

Urchade Zaratiana, Niama El Khbir, Dennis Núñez, Pierre Holat, Nadi Tomeh, Thierry Charnois. *Extractive Question Answering with Dynamic Query Representation for Free*. Transfer Learning for NLP Workshop @ Neurips 2022.

Urchade Zaratiana, Nadi Tomeh, Niama Elkhbir, Pierre Holat, Thierry Charnois. *Global Span Selection for Named Entity Recognition*. In Proceedings of the Workshop on Unimodal and Multimodal Induction of Linguistic Structures (UM-IoS) @ EMNLP 2022.

Urchade Zaratiana, Nadi Tomeh, Niama Elkhbir, Pierre Holat, Thierry Charnois. *Named Entity Recognition as Structured Span Prediction*. In Proceedings of the Workshop on Unimodal and Multimodal Induction of Linguistic Structures (UM-IoS) @ EMNLP 2022.

Under review (at ML and NLP conferences): Filtered Semi-Markov CRF, Extractive QA with Soft Structural Biases, Named Entity Recognition as Constrained Span Prediction.

Professional Experience

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: Cross-lingual search and QA, Keyphrase extraction on scientific texts, scientific taxonomy construction. (python, pytorch, transformers, FAISS)
- Open source contribution: pytorch-struct library.

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