

Ph.D. IN NATURAL LANGUAGE PROCESSING AND INFORMATION RETRIEVAL

Ile-de-France, France

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Education_

IRIT Laboratory, University of Paul Sabatier

Toulouse, France

Ph.D. IN COMPUTER SCIENCE

2019 - 2022

- Thesis Topic: Deep Learning for Information retrieval
- Advisors: Jose G.Moreno, Mohand Boughanem
- Area of study: Deep Learning, Information Retrieval, and Natural Language Processing

Higher National School of Computer Science (ESI)

Algiers, Algeria

MASTER'S DEGREE IN COMPUTER SCIENCE AND ENGINEERING

2018 - 2019

- Thesis Topic: Real Time Tweet Summarization
- Advisors: Lynda Said Lhadi, Mohand Boughanem
- Area of study: Deep Learning, Information Retrieval, and Natural Language Processing

Higher National School of Computer Science (ESI)

Algiers, Algeria

ENGINEERING DEGREE IN COMPUTER SCIENCE AND ENGINEERING (VALEDICTORIAN)

2014 - 2019

· Majored in Information Systems & Software

Experience _____

Ooredoo Algiers, Algeria

Engineer Internship

Jun. 2017 - Sep. 2017

· Participated in the design and configuration of a micro-service architecture

LIG, University of Grenoble Alps

Grenoble, France

POSTDOC RESEARCH FELLOWSHIP

dec. 2022 - present

• Enhancing the systematic generalization capabilities of sequence-to-sequence models by integrating structural (syntactic) information into the decoding process via hyperbolic representations of dependency trees.

Teaching Activities

University of Paul Sabatier

Toulouse, France

2019 - 2021

IN FRENCH.

- Data Structures and Fundamental Algorithms (Semester I)
- Database Programming and administration (Semester II)

Research Internships

Institut de Recherche en Informatique de Toulouse (IRIT)

Toulouse, France

RESEARCH ON MICROBLOG RETRIEVAL AND SUMMARIZATION

Dec. 2018 - Jul. 2019

- Advisor: Mohand Boughanem
- Development of a tweet summarization approach based on Deep Learning Models. Manipulation of various state-of-the-art Models for both tweet representation and relevance estimation of tweets with respect to users' interests.

Max Planck Institute for Informatics (MPI)

Saarbrücken, Germany

A STUDY OF TERM-TOPIC EMBEDDINGS

Jun. 2021 - Feb. 2022

- · Advisor: Andrew Yates
- Investigating the distillation of Transformer produced contextualized representations into more explicit and principled contextualization process based on aggregating a finite set of static term-topic embeddings representing the different contextual topics of tokens.

APRIL 4, 2023 LILA BOUALILI · RÉSUMÉ

Publications

• Lila Boualili

Deep learning for information retrieval: studying relevant signals for ad hoc search based on transformer models

Thesis, Université Paul Sabatier-Toulouse III

• Lila Boualili and Andrew Yates

A Study of Term-Topic Embeddings for Ranking

Advances in Information Retrieval: 45th European Conference on Information Retrieval, ECIR 2023, Dublin, Ireland, April 2–6, 2023, Proceedings. Part II

• Lila Boualili, Jose G. Moreno, and Mohand Boughanem

Highlighting Exact Matching via Marking Strategies for Ad hoc Document Ranking with Pretrained Contextualized Language Models

Information Retrieval Journal 25 (4), 414-460

• Lila Boualili, Jose G. Moreno, and Mohand Boughanem

MarkedBERT: Integrating Traditional IR Cues in Pre-trained Language Models for Passage Retrieval

Proceedings of the 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '20), X'ian, China, July 25-30, 2020.

• Lila Boualili, Lynda Said Lhadi, and Mohand Boughanem

Retrospective Tweet Summarization: Investigating Neural Approaches for Tweet Retrieval

Proceedings of the Joint Conference of the Information Retrieval Communities in Europe (CIRCLE 2020), Samatan, Gers, France, July 6-9, 2020.

Scholarships_____

2020	SIGIR Student Travel Grant, attend SIGIR'20 virtual conference	X'ian, China
2019	CIMI Excellency Doctoral scholarship, three years PhD full scholarship	Toulouse, France
2019	IRIT Travel Support Scholarship, Attend ESSIR'19 Summer School	Milan, Italy
2019	IRIT Internship Support Scholarship, Six months Research Internship	Toulouse, France

Student Activities _____

2019	Student Volunteer, SIGIR'19 Conference	Paris, France
2019	Summer School, European Summer School for Information Retrieval (ESSIR'19)	Milan, Italy
2019	Student Program, Microsoft Student Partner	Algiers, Algeria
2018	Student Volunteer, Microsoft HourOFCode	Algiers, Algeria
2018	Student Volunteer, College Office 365 and IT Academy administrator	Algiers, Algeria

Skills

Programming	Python, C, JAVA, Ada, JavaScript and PL/SQL
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Libraries Pytorch, TensorFlow, Sickit-learn, Transformers, Sentence-Transformers, Faiss, fairseq

Database Oracle and MySQL

Operating Systems Microsoft Windows, Linux and other UNIX variants

Agile Methodologies Scrum and Kanban

Languages French (native), English (professional), Arabic (professional), Kabyle (native)

Hobbies

Photography, Hiking, Reading, Drawing