

Alireza Mohammadshahi

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Education

École Polytechnique Fédérale de Lausanne

Lausanne, Switzerland

DIRECT PH.D. IN COMMUNICATION AND COMPUTER SCIENCE (EDIC)

Sep 2018 - PRESENT

- Supervisors: Prof. Karl Aberer, Dr. James Henderson

Sharif University of Technology

Tehran, Iran

B.Sc. IN ELECTRICAL ENGINEERING; COMMUNICATION, MINOR IN COMPUTER SCIENCE

Sep 2013 - Aug 2018

- GPA: 18.98/20, last 4 semesters' GPA: 19.78/20 (4.0/4.0)

Working Experience

META AI

London, UK

RESEARCH SCIENTIST INTERN

July 2022 - PRESENT

- Supervisors: Marzieh Saeidi, Thomas Scialom, Angela Fan
- Topic: Question Generation and Answering (Metric Proposal + Benchmark)

NAVERLABS Europe

Grenoble, France

RESEARCH SCIENTIST INTERN

February 2022 - Jun 2022

- Supervisors: Vassilina Nikoulina, Alexandre Bérard, Laurent Besacier
- Topic: Compressing Multilingual Machine Translation Models + Evaluating the fairness after the compression

IDIAP Research Institute

Martigny, Switzerland

PH.D. RESEARCH ASSISTANT

September 2019 - PRESENT

- Supervisor: Dr. James Henderson
- Topic: Representation Learning, Graph Encoding

IDIAP Research Institute

Martigny, Switzerland

RESEARCH SCIENTIST INTERN

February 2019 - September 2019

- Supervisor: Dr. James Henderson
- Topic: Graph Encoding, Parsing

Research Interest

Natural Language Processing, Deep Learning

Computer Vision, Design of Algorithms

Honors & Awards

Offer EDIC PhD program fellowship by EPFL	2018
Offer EE PhD program fellowship by UCLA and USC	2018
Offer EE Master program fellowship by UofT and UBC	2018
Rank 18th out of +250,000 undergraduate applicants in universities entrance exam for B.Sc. degree	2013
Member of national elite foundation of Iran	2013 - PRESENT
Best Paper Award Swiss Machine Learning Day	2019
Offer Google Travel Scholarship for 3rd Google NLP Summit	2019
Finalist of 10th ICC with proposing MyLinguist prototype (mylinguist.ch)	2021

Publications

RQUGE: Introducing Reference-Free Question Generation Metric by Better Encoding of Relevant Context

2022

SUBMITTED TO ARR

- A. Mohammadshahi, T. Scialom, A. Fan, M. Yazdani, P. Yanki, M. Saeidi

SMaLL-100: Introducing Shallow Multilingual Machine Translation Model for Low-Resource Languages

2022

THE CONFERENCE ON EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING (EMNLP)

- A. Mohammadshahi, V. Nikoulina, A. Berard, C. Brun, J. Henderson and L. Besacier

What Do Compressed Multilingual Machine Translation Models Forget?

2022

THE CONFERENCE ON EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING (EMNLP)-FINDINGS

- A. Mohammadshahi, V. Nikoulina, A. Berard, C. Brun, J. Henderson and L. Besacier

Multilingual Extraction and Categorization of Lexical Collocations with Graph-aware Transformers

2022

*SEM: THE 11TH JOINT CONFERENCE ON LEXICAL AND COMPUTATIONAL SEMANTICS

- L. Espinosa-Anke, A. Shvets, A. Mohammadshahi, J. Henderson, L. Wanner

Recursive non-autoregressive graph-to-graph transformer for dependency parsing with iterative refinement

2021

TRANSACTIONS OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS

- A. Mohammadshahi, J. Henderson

The DCU-EPFL Enhanced Dependency Parser at the IWPT 2021 Shared Task

2021

IWPT SHARED TASK AT ACL

- J. Barry, A. Mohammadshahi, J. Wagner, J. Foster, J. Henderson

Syntax-Aware Graph-to-Graph Transformer for Semantic Role Labelling

2019

ARXIV

- A. Mohammadshahi, J. Henderson

Aligning Multilingual Word Embeddings for Cross-Modal Retrieval Task

2019

FACT EXTRACTION AND VERIFICATION WORKSHOP AT EMNLP

- A. Mohammadshahi, R. Lebrecht, K. Aberer

[More Details on Google Scholar.](#)

Workshop & Conference Experience

Program Committee EMNLP, ACL, ARR

2022

Program Committee EACL, ACL, TextGraph at NAACL, ARR

2021

Poster Presentation 3rd Google Natural Language Processing Summit at Google Zurich

2019

Poster Presentation Swiss Machine Learning Day

2019