

GRANTS

Marie Skłodowska

Curie grant

PhD grant 2020

PhD under the Marie Skłodowska-Curie grant.

Erasmus Mundus

Grant

MSc grant 2019

Erasmus+ grant for pursuing the Erasmus Mundus jointly Master degree

Erasmus+ grant

BSc grant 2018

Erasmus+ grant for the mobility at Charles University of Prague (Czech Republic).

Honors Student

Bachelor


Honors Student in BSc in Software Engineering.

Abelardo Carlos Martínez Lorenzo

PhD student, 3rd year

Deep Learning & Natural Language Processing

Early Stage Researcher (ESR) under the **Marie Skłodowska-Curie grant** in the **Knograph** project - European Union's **Horizon 2020** research and innovation programme

 Interested in **multilingual and cross-lingual semantics**, especially Semantic Parsing with auto-regressive models.

EXPERIENCE

NLP Researcher

Babelscape (Italy)

2020 - ongoing

Research: **Multilingual and Cross-lingual Semantics** with a focus on

- Semantic Role Labeling
- Word Sense Disambiguation
- Semantic Parsing

EDUCATION

PhD - Computer Science

Sapienza University of Rome (Italy)

2020 - ongoing

Advisor: **Roberto Navigli**

Grant: **Marie Skłodowska-Curie grant**

Project: **EU-Horizon 2020 - KnowGraphs**

Area: Multilingual Semantics

MSc - Big Data Management and Analytics (BDMA)

Erasmus Mundus Joint Master Degree Programme

2018 - 2020

Thesis: "Reasoning and Prediction in Knowledge Graphs"

- Final grade: **8 / 10**
- Grade Point Average: **8 / 10**

Technische Universität Berlin (**TU-Berlin**):

- 2019/20 - Germany
- Main Course: Large Scale Analytics

Universitat Politècnica de Catalunya (**UPC**):

- 2019 - Spain
- Main Course: Big Data Fundamentals

Université Libre de Bruxelles (**ULB**)

- 2018 - Belgium
- Main Course: Business Intelligence Fundamentals

BSc - Software Engineering

Universidad Málaga (Spain)

2014 - 2018

Thesis: "Real-time Communication System for Malaga's firefighters"

- Final grade: **9.0 / 10**
- Grade Point Average: **8.5 / 10**
- Erasmus: Univerzita Karlova v Praze (Czech Republic)

SKILLS

Deep Learning	3+ yrs
NLP	3+ yrs
Semantics	2+ yrs
Semantic Parsing	2+ yrs
Knowledge Graphs	4+ yrs
Teaching	2+ yrs
Python	4+ yrs
LLMs	4+ yrs
BART	3+ yrs
T5	2+ yrs
Python Lightning	3+ yrs
WandDB	3+ yrs

PUBLICATIONS

2022

Abelardo Carlos Martínez Lorenzo*, Pere-Lluís Huguet Cabot*, Roberto Navigli. **Cross-lingual AMR Alignment: Paying Attention to Cross-Attention.**

ACL 2023

Abelardo Carlos Martínez Lorenzo*, Pere-Lluís Huguet Cabot*, Roberto Navigli. **AMRs Assemble! Learning to Ensemble with Autoregressive Models for AMR Parsing.**

ACL 2023

Pavlo Vasylenko, [Abelardo Carlos Martínez Lorenzo](#), Pere-Lluís Huguet Cabot, Roberto Navigli. **Incorporating Graph Information in Transformer-based AMR Parsing.**

ACL 2023

Abelardo Carlos Martínez Lorenzo, Marcu Maru, Roberto Navigli. **Fully-Semantic Parsing and Generation: the BabelNet Meaning Representation.**

ACL 2022

Roberto Navigli, Rexhina Blloshmi, [Abelardo Carlos Martínez Lorenzo](#). **BabelNet Meaning Representation: A Fully Semantic Formalism to Overcome Language Barriers.**

AAAI 2022

Zoi Kaoudi, [Abelardo Carlos Martínez Lorenzo](#), Volker Markl. **Towards Loosely-Coupling Knowledge Graph Embeddings and Ontology-based Reasoning.**

arXiv

ATTENDANCE

The Joint Conference of the 61th Annual Meeting of the Association for Computational Linguistics. **ACL - Toronto, Canada (June, 2023).**

Conference

Knowgraphs ITN Winter School. **Vienna, Austria (April 2023).**

Winter School

Knowgraphs ITN Workshop in Transversal Skills. **Groningen, Netherlands (September 2022).**

Workshop

The 6th International Summer school in Deep Learning. **DeepLearn - Gran Canaria, Spain (Summer 2022).**

Summer School

Workshop on Ten Years of BabelNet and Multilingual Neurosymbolic Natural Language Understanding. **Rome, Italy (July 2022).**

Workshop

The Joint Conference of the 60th Annual Meeting of the Association for Computational Linguistics. **ACL - Dublin, Ireland (May, 2022).**

Conference

Knowgraphs ITN Winter School. **Vienna, Austria (April 2022).**

Winter School

The 36th Conference of the Association for the Advancement of Artificial Intelligence.. **AAAI - Online (February 2022).**

Conference

OTHER

- Reviewed papers for top conferences.
- Teaching assistant for the MSc course on NLP at Sapienza University of Rome.