

Riccardo Orlando

PH.D. STUDENT, 3RD YEAR · DEEP LEARNING AND NATURAL LANGUAGE PROCESSING

☎ (+39) 3470089525 | ✉ orlandoricc@gmail.com | 🏠 riccorl.github.io | 📧 riccorl | 📺 riccardo-orlando | 📄 Riccardo Orlando

Experience

Researcher

Rome, Italy

SAPIENZA UNIVERSITY OF ROME

Nov. 2021 - Present

- Training Foundation Models (30B+) for the Italian language.
- Developed a novel retrieval-augmented system that achieves state-of-the-art performance in Entity Linking and Relation Extraction simultaneously.
- Researched and implemented techniques for more efficient data utilization, optimizing training, and improving inference for Information Retrieval.
- Led the data annotation process that resulted in a novel dataset for Semantic Role Labeling.
- Developed production-ready pipelines for several state-of-the-art NLP tasks, including Word Sense Disambiguation, Semantic Role Labeling, and Semantic Parsing.
- Served as a Teaching Assistant for Natural Language Processing and Elective in Artificial Intelligence MSc courses.

NLP Engineer

Rome, Italy

BABELSCAPE

Feb. 2021 - Dec. 2021

- Developed end-to-end state-of-the-art multilingual NLP pipelines.
- Implemented a Machine Learning and NLP pipeline serving framework, drastically reducing deployment time.
- Authored and presented two papers at EMNLP 2021.

Software Engineer

Rome, Italy

CAPGEMINI

Mar. 2018 - Sept. 2018

- Developed a back-end application using Spring Boot to handle internal workflows for different customers.
- Contributed to the front-end application, which was built on top of Angular.

Education

Ph.D. in Computer Science (Deep Learning & Natural Language Processing)

Rome, Italy

SAPIENZA UNIVERSITY OF ROME

Nov. 2021 - Present

- Advisor: Roberto Navigli

Master of Science in Engineering in Computer Science

Rome, Italy

SAPIENZA UNIVERSITY OF ROME

Oct. 2018 - Jan. 2021

- Final Grade: 110/110 with honors
- Thesis: Automatic Approaches to Produce Multilingual Training Data for Semantic Role Labelling.

Bachelor of Science in Computer Science

Rome, Italy

SAPIENZA UNIVERSITY OF ROME

Oct. 2014 - May 2018

- Final Grade: 101/110
- Thesis: Densest Subgraph in Fork/Join.

Relevant Publications

2023	Edoardo Barba, Riccardo Orlando, Pere-Lluís Huguet Cabot, and Roberto Navigli. ReLiK: Retrieve, Read and Link: Fast and Accurate Entity Linking and Relation Extraction on an Academic Budget.	Under review
2023	Simone Conia, Edoardo Barba, Abelardo Carlos Martínez Lorenzo, Pere-Lluís Huguet Cabot, Riccardo Orlando, Luigi Procopio, Roberto Navigli. MOSAICO: a Multilingual Open-text Semantically Annotated Interlinked Corpus.	Under review
2023	Riccardo Orlando, Simone Conia, and Roberto Navigli. Exploring Non-Verbal Predicates in Semantic Role Labeling: Challenges and Opportunities.	ACL 2023
2023	Roberto Navigli, Riccardo Orlando, Cesare Campagnano, and Simone Conia. Universal Semantic Annotator.	European Language Grid
2022	Riccardo Orlando, Simone Conia, Stefano Faralli, and Roberto Navigli. Universal Semantic Annotator: the First Unified API for WSD, SRL and Semantic Parsing.	LREC 2022
2021	Riccardo Orlando, Simone Conia, Fabrizio Brignone, Francesco Ceconi, and Roberto Navigli. AMuSE-WSD: An All-in-one Multilingual System for Easy Word Sense Disambiguation.	EMNLP 2021
2021	Simone Conia, Riccardo Orlando, Fabrizio Brignone, Francesco Ceconi, and Roberto Navigli. InVerO-XL: Making Cross-Lingual Semantic Role Labeling Accessible with Intelligible Verbs and Roles.	EMNLP 2021

Skills

Frameworks	Deep Learning & Machine Learning (PyTorch, PyTorch Lightning, Hydra, Transformers, ONNX, TensorFlow, scikit-learn)
Back-end	FastAPI, Django, REST API
Languages	Python, Java, Kotlin, Bash/Shell
Developer Tools	Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ

Honors & Awards

2023	Winner , Italian SuperComputing Resource Allocation (ISCRA) Call for Proposal for compute hours at CINECA, the Italian HPC Center	<i>Rome, Italy</i>
2022	Winner , Call for Proposals for Scientific Research	<i>Rome, Italy</i>

Program Committees

2023	Reviewer , ARR December 2023
2023	Reviewer , ARR October 2023
2023	Reviewer , EMNLP 2023
2023	Reviewer , ACL 2023
2023	Reviewer , EACL 2023
2022	Reviewer , LREC 2022
2021	Reviewer , EMNLP 2021