

Giuliano Martinelli

Born in Rome, 25/02/1997

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Education

Sapienza University of Rome

PH.D. STUDENT OF THE NATIONAL PROGRAM IN ARTIFICIAL INTELLIGENCE

Rome

2022 - exp. 2025

- Focus on Deep Learning and Natural Language Processing
- Advisor: prof. Roberto Navigli

Sapienza University of Rome

MSC IN ENGINEERING IN COMPUTER SCIENCE

Rome

2019 - 2021

- Grade: 110 cum laude/110
- Thesis: Neural Keyword Extraction using Differential Binary Gating, supervisor: prof. Roberto Navigli
- Most relevant courses: Machine Learning, Algorithm Design, Big Data Computing, Web Information Retrieval, Advanced Machine Learning, Neural Networks, Visual Analytics, Natural Language Processing

Roma Tre University of Rome

BSC IN COMPUTER ENGINEERING

Rome

2016 - 2019

- Grade: 110 cum laude/110
- Thesis: Realization of a conversational agent using LSTM neural networks and Word Embeddings, supervisor: prof. Maurizio Patrignani

Relevant Publications

NAACL 2024: CNER: Concept and Named Entity Recognition

Mexico City, Mexico

MARTINELLI GIULIANO, FRANCESCO MARIA MOLFESE, SIMONE TEDESCHI, ALBERTE FERNÁNDEZ-CASTRO, ROBERTO NAVIGLI

June, 2024

Introduced Concept and Named Entity Recognition (CNER), a novel task that jointly handles concepts and named entities, along with two new datasets for the training and evaluation of CNER models.

ACL 2024: Maverick: Efficient and Accurate Coreference Resolution Defying Recent Trends

Bangkok, Thailand

MARTINELLI GIULIANO, EDOARDO BARBA, ROBERTO NAVIGLI

August, 2024

Introduced Maverick, a novel Coreference Resolution framework, that challenges the dominance of large autoregressive models by achieving new state-of-the-art performance on multiple benchmarks with significantly fewer parameters, lower memory usage, and faster inference.

Work Experience

Sapienza University of Rome

TEACHING ASSISTANT

Rome

Nov. 2022 - June 2023

- Natural Language Processing MSc course: tutorial sessions and student assessment.
- Computational Narrative Understanding and Storytelling MSc course: lectures and student assessment.
- Fundamentals of Computer Science BSc course: tutorial sessions and student assessment.

Babelscape srl

NLP ENGINEER

Rome

Jan. 2022 - September 2023

- Neural Transformer-based keyword extraction.
- Word Sense Disambiguation dataset evaluation for annotation purposes.
- Query Disambiguation project, algorithmic approaches based on graphs.
- Newspaper Document Clustering using Transformers-based architectures.

Floaty srl

MACHINE LEARNING ENGINEER

Rome

Feb. 2019 - Oct. 2019

- Research and development of a neural architecture for intent and entity recognition in sentences, involving the development of a LSTM neural network using Pytorch and Word2Vec.
- Development of a CNN based Facial Recognition system.

A2 to C italian league

SEMI-PROFESSIONAL BASKETBALL PLAYER

Rome, Latium

Sept. 2013 - now

Scholarships and Certificates

2021	Honour Program Certificate , for being a top 15 student in the MSc	<i>Sapienza University</i>
2019	Wanted the Best , Scholarship of 3000 euros for being a student with merit coming to Sapienza	<i>Sapienza University</i>
2024	Avvio alla Ricerca , Call for Proposals for Scientific Research	<i>Sapienza University</i>

Skills

Programming	Python, Kotlin, Java
Frameworks	Pytorch, Tensorflow, Keras, Spark, Pytorch-Lightning, Huggingface, D3js, AWS
Languages	Italian (Mother-tongue) , English (Fluent) , Spanish (Scholastic)