

# Giuliano Martinelli

Born in Rome, 25/02/1997

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## Education

### 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

## Scholarships and Certificates

2021 **Honour Program Certificate**, for being a top 15 student in the MSc

Sapienza University

2019 **Wanted the Best**, Scholarship of 3000 euros for being a student with merit coming to Sapienza

Sapienza University

## Work Experience

### Babelscape srl

NLP ENGINEER

Rome

Jan. 2022 - now

- 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

## Projects

### Aviation Crashes Visualization

UNIVERSITY PROJECT | VISUAL ANALYTICS | (GITHUB)

Sapienza University

2021

- Aviation Crashes Visualization D3js to represent information about aircraft crashes in order to have accidents easily plotted and understood.

### PhilosopherRank

UNIVERSITY PROJECT | WEB INFORMATION RETRIEVAL | (GITHUB)

Sapienza University

2021

- PageRank based method applied on philosopher's wikipedia pages to extract influence relations and rank objectively influential philosophers.

### SELDnet

UNIVERSITY PROJECT | NEURAL NETWORKS | (GITHUB)

Sapienza University

2020

- Project based on the combination of Convolutional and GRU networks, to achieve a state of the art Sound Event Localization and Detection.

## Skills

### Programming

Python, Kotlin, C++ ,Java

### Frameworks

Pytorch, Tensorflow, Keras, Spark, Pytorch-Lightning, Huggingface, D3js, AWS

### Languages

Italian (Mother-tongue) , English (Fluent) , Spanish (Scholastic)