



# Cesare Campagnano

Nazionalità: Italiana

## PRESENTAZIONE

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I am a third year Ph.D. student at Sapienza University of Rome. My research interests revolve around Generative Large Language Models, with a focus on Retrieval-augmented Approaches and Multimodality.

## ESPERIENZA LAVORATIVA

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### Applied Scientist II Intern

*Amazon Inc.* [ 10/2022 – 4/2023 ]

Città: Barcelona

Paese: Spagna

Project name: Label Discovery on Low-resource Extreme Multi-label Classification

### NLP Engineer

*Babelscape SRL* [ 11/2021 – 6/2022 ]

Città: Roma

Paese: Italia

Implemented Emotionary: a system for structured emotion classification and hate speech detection

### Teaching Assistant

*Sapienza University of Rome* [ 3/2020 – 10/2020 ]

Città: Roma

Paese: Italia

"Natural Language Processing" course led by prof. Roberto Navigli  
143 students enrolled

### Co-founder/CTO

*SicuroWeb* [ 9/2013 – 4/2015 ]

Città: Roma

Paese: Italia

Developed web platforms and maintained servers

### Co-founder/CTO

*L'Innovatore (Online Magazine)* [ 10/2014 – 1/2020 ]

Città: Roma

Paese: Italia

Platform sold in 2020. Roles:

- Developed the web platform
- Recruited and managed authors

## ISTRUZIONE E FORMAZIONE

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### Ph.D. in Computer Science

*Sapienza University of Rome* [ 11/2020 – Attuale ]

Città: Roma

Paese: Italia

Campi di studio: Natural Language Processing and Deep Learning

## **M.Sc. in Engineering in Computer Science**

*Sapienza University of Rome* [ 9/2018 – 10/2018 ]

Città: Roma

Paese: Italia

Campi di studio: Machine Learning

Voto finale: 110/110 Cum Laude

Tesi: Deep Learning Approaches for Automatic Music Production

- in English
- Exchange semester in Universitat Politècnica de València (in Spanish)

## **B.Sc. in Engineering in Computer Science and Automation**

*Sapienza University of Rome* [ 9/2013 – 7/2018 ]

Città: Roma

Paese: Italia

## **ONORIFICENZE E RICONOSCIMENTI**

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### **Ph.D. Merit Scholarship**

Sapienza University of Rome [ 2020 ]

"Excellence Departments" of Ministry of University and Research

### **Path of Excellence**

Sapienza University of Rome [ 2020 ]

"Transformer Architectures for Signal Processing"

Tutor: Prof. Simone Scardapane

### **Matrícula de Honor**

Universitat Politècnica de Valencia [ 2019 ]

Awarded in Spain to best-in-class students

## **COMPETENZE DIGITALI**

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### **AI**

NLP / Deep Learning / Information Retrieval / Signal Processing

### **Frameworks**

PyTorch / PyTorch Lightning / HF Transformers / Scrapy / Spark / Keras

### **Programming**

Python / C / Java / JavaScript / Bash/Shell / LaTeX

### **Developer Tools**

AWS (SageMaker, S3, CloudWatch) / Docker / Git / VS Code / PyCharm

### **Other**

Contributor of HF Transformers / Reviewer for ACL, EMNLP, ACM Computing Surveys, ECIR, among others

## **COMPETENZE LINGUISTICHE**

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Lingua madre: **italiano**

### **Altre lingue:**

#### **inglese**

**ASCOLTO C1 LETTURA C1 SCRITTURA C1**

**PRODUZIONE ORALE C1 INTERAZIONE ORALE C1**

#### **Spanish**

**ASCOLTO B2 LETTURA B2 SCRITTURA B2**

**PRODUZIONE ORALE B2 INTERAZIONE ORALE B2**

*Livelli: A1 e A2: Livello elementare B1 e B2: Livello intermedio C1 e C2: Livello avanzato*

## CONFERENZE E SEMINARI

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### Ten Years of BabelNet Workshop

[ Sapienza University of Rome, 2022 ]

"Semantic Role Labeling for Emotions"

### Coffee Break

[ Temporall LTD, 2021 ]

"A Brief Introduction to Natural Language Processing"

## PUBBLICAZIONI

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### SRL4E - Semantic Role Labeling for Emotions: A Unified Evaluation Framework

[2022]

Cesare Campagnano, Simone Conia, and Roberto Navigli

In *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, 4586–4601, 2022.

### Universal Semantic Annotator

[2022]

Roberto Navigli, Riccardo Orlando, Cesare Campagnano, and Simone Conia

In *European Language Grid: A Language Technology Platform for Multilingual Europe*, 349–54. Springer International Publishing Cham, 2022.

### CycleDRUMS: Automatic Drum Arrangement for Bass Lines Using CycleGAN

[2023]

G. Barnabò, G. Trappolini, L. Lastilla, C. Campagnano, A. Fan, F. Petroni, and F. Silvestri

*Discover Artificial Intelligence* 3, no. 1 (2023): 4.

### Prompt-to-OS (P2OS): Revolutionizing Operating Systems and Human-Computer Interaction with Integrated AI Generative Models

[2023]

Gabriele Tolomei\*, Cesare Campagnano\*, Fabrizio Silvestri, and Giovanni Trappolini

*IEEE 5th International Conference on Cognitive Machine Intelligence (CogMI)*, 2023.

\* Equal contribution

### XL-WA: a Gold Evaluation Benchmark for Word Alignment in 14 Language Pairs

[2023]

F. Martelli, A. S. Bejgu, C. Campagnano, J. Čibej, R. Costa, A. Gantar, J. Kallas, S. P. Koeva, K. Koppel, S. Krek, M. Langemets, V. Lipp, S. Nimb, S. Olsen, B. S. Pedersen, V. Quochi, A. Salgado, L. Simon, C. Tiberius, R. Ureña-Ruiz, R. Navigli.

In *Proceedings of the Ninth Italian Conference on Computational Linguistics*, 2023.

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*Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".*