

Simone Alghisi

PHD STUDENT AT UNIVERSITY OF TRENTO

✉ s.alghisi@unitn.it | 🏠 simone-alghisi.github.io | 📧 Simone-Alghisi | 🌐 simone-alghisi

Education

University of Trento

PHD IN INFORMATION ENGINEERING AND COMPUTER SCIENCE

Trento, IT

Nov. 2023 - Nov. 2026

- **Area:** Deep and Structured Machine Learning, Machine Learning and Intelligent Optimization, Language Speech and Interaction
- **Admission:** 2nd candidate selected out of 58 — 93/100 points

University of Trento

MASTER'S DEGREE IN ARTIFICIAL INTELLIGENCE SYSTEMS - COMPUTER VISION

Trento, IT

Sept. 2021 - Oct. 2023

- **Grade:** 110 with Honours/110
- **Master's Thesis:** "Automatic and Semantic Detection of New Information in Document Time Series" ↗

University of Trento

BACHELOR'S DEGREE IN COMPUTER SCIENCE

Trento, IT

Sept. 2018 - Jul. 2021

- **Grade:** 110 with Honours/110
- **Final Dissertation:** "The emotional impact of the Covid-19" ↗

Skills

- Programming** Python (intermediate), C++ (academic), C (academic), Java (academic), JavaScript (academic)
- Miscellaneous** Linux, Git, GitHub, LaTeX
- Languages** English (B2), Italian (native)

Work Experience

Mila - Quebec Artificial Intelligence Institute

RESEARCH INTERN

Montreal, QC

Jan. 2023 - Apr. 2023

- Investigated the robustness of PLMs to spoken interactions for task-oriented dialogues — IWSDS 2024 submission.
- Contributed to SpeechBrain - Deep Learning for Spoken Language Understanding ↗.

Eurecat - Centre Tecnològic de Catalunya

JUNIOR DATA SCIENTIST

Barcelona, ES

May 2021 - Jun. 2021

- Retrieved and managed over 6TB of data from Twitter (twarc) — *more than 1 Billion tweets*.
- Inferred demographic and geographical data of 6 million users using state-of-the-art library (m3inference, geopy).
- Contributed to m3inference, an open source state-of-the-art library, by improving exception handling of corner cases — *pull request* ↗
- Developed a pipeline to efficiently extract relevant data about the users, perform emotion analysis techniques, and save useful statistics.

Publications

DyKnow: Dynamically Verifying Time-Sensitive Factual Knowledge in LLMs

THE 2024 CONFERENCE ON EMPIRICAL METHODS IN NATURAL LANGUAGE PROCESSING

Miami, Florida

2024

Seyed Mahed Mousavi, Simone Alghisi, and Giuseppe Riccardi

Should We Fine-Tune or RAG? Evaluating Different Techniques to Adapt LLMs for Dialogue

PROCEEDINGS OF THE 17TH INTERNATIONAL NATURAL LANGUAGE GENERATION CONFERENCE

Tokyo, Japan

2024

Simone Alghisi, Massimo Rizzoli, Gabriel Roccabruna, Seyed Mahed Mousavi, and Giuseppe Riccardi

Are LLMs Robust for Spoken Dialogues?

THE 14TH INTERNATIONAL WORKSHOP ON SPOKEN DIALOGUE SYSTEMS TECHNOLOGY

Sapporo, Japan

2024

Seyed Mahed Mousavi, Gabriel Roccabruna, Simone Alghisi, Massimo Rizzoli, Mirco Ravanelli, and Giuseppe Riccardi