

Gabriele Sarti

POSTDOCTORAL RESEARCHER IN INTERPRETABILITY AND NATURAL LANGUAGE PROCESSING

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Current Role

Northeastern University, Khouri College of Computer Sciences

Postdoctoral Researcher

Boston, United States

January 2026 - Ongoing

- R&D of open-source interpretability tools and interfaces to make AI systems more transparent and trustworthy.
- Advisor: David Bau. Funding: NSF  National Deep Inference Fabric (NDIF) project.

Education

University of Groningen, Center for Language and Cognition

Doctorate (Ph.D.) in Natural Language Processing

Groningen, Netherlands

September 2021 - December 2025

- Thesis:  From Insights to Impact: Actionable Interpretability for Neural Machine Translation. Graduated Cum Laude.
- Advisors: Arianna Bisazza, Malvina Nissim and Grzegorz Chrupała. Funding:  NWO InDeep Consortium.
- Main instructor of the 2024 BSc course “Fundamentals of Machine Learning: Theory and Practice”. Co-instructor of multiple editions of the Advanced Natural Language Processing MSc course. Co-supervisor of several BSc and MSc thesis projects.

University of Trieste & International School for Advanced Studies (SISSA)

Master's of Science (MSc) in Data Science and Scientific Computing

Trieste, Italy

October 2018 - December 2020

- Data Science for Social Sciences track, all courses taught and assessed in English. Graduation score: 110 Cum Laude.
- Thesis:  Interpreting Neural Language Models for Linguistic Complexity Assessment. Supervisors: Felice Dell'Orletta, Davide Crepaldi.

Cégep of Saint-Hyacinthe

Collegial Studies Degree (DEC) in Management Informatics

Saint-Hyacinthe, Canada

August 2015 - June 2018

- All courses taught and assessed in French. Final R Score: 34.13.

Work Experience

Amazon Web Services

Applied Scientist Intern, AWS AI Labs

New York, United States

June 2022 - September 2022

- Research project with Amazon Translate on prompting large multilingual language models for attribute-controlled machine translation.

Aindo

Research Scientist

Trieste, Italy

November 2020 - August 2021

- Generative AI for question answering applied to structured prediction tasks in the clinical domain.
- Experimental work in cross-lingual transfer to Italian for generative language models pre-trained in English.
- Creation of temporally-aware neural recommender system based on graph neural networks for online shopping recommendations.
- Controllable sketch-to-image synthesis for the fashion industry with multimodal pre-trained neural networks (StyleGAN & CLIP).

Institute of Computational Linguistics “Antonio Zampolli” (ILC-CNR)

Research Assistant in Natural Language Processing

Pisa, Italy

October 2019 - December 2019

- Developed a multitask training pipeline for reading times predictions using neural language models. Models were evaluated on linguistic complexity assessment and analyzed using probing and representational similarity methods.

Skytech Communications Inc.

Machine Learning Engineer Intern

Montréal, Canada

February 2018 - June 2018

- Augmented a convolutional neural networks system for automatic record keeping with handwritten characters recognition capabilities.
- Development of a sentiment analysis platform for highlighting inappropriate student comments in professors' evaluation forms.

→  For talks, mentorship, awards and publications consult my extended CV.