GIUSEPPE CARRINO

PhD student in Optimization at ENS Lyon
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EDUCATION

PhD in Optimization *November 2025 - Ongoing*
ENS Lyon *Supervised by N.Brisebarre, E.Riccietti, T.Mary*
Mixed-precision algorithms for Machine Learning

MSc in Artificial Intelligence *September 2022 - October 2025*
University of Bologna 110/110 *summa cum laude*
Thesis: "Floating-point approximations for Newton's method"

Bachelor Degree in Computer Science *September 2019 - July 2022*
University of Bologna 110/110 *summa cum laude*
Thesis: "Infrastructure for the comparison of international newspapers".

WORK EXPERIENCE

École normale supérieure, Lyon March 2025 - June 2025
Research Intern *Supervised by Elisa Riccietti, Theo Mary*

- Floating-point finite precision error analysis;
- Newton and Quasi-Newton methods in mixed precision.

Amazon, Madrid September 2024 - February 2025
Software Development Engineer Intern

- Full-Stack developing using Java and React;
- Writing and deploying code for worldwide-used shopping services.

Norwegian University of Science and Technology, Gjøvik September 2021 - November 2021
Research Intern *Supervised by Angelo Di Iorio, Gioele Barabucci*

- Bachelor thesis on quantitative semantic analysis on newspapers;

PUBLICATIONS

Comparison of news commonality and churn in international news outlets with TARO
Hypertext Conference 2023

- Won ***Ted Nelson Newcomer Award***
- DOI: https://doi.org/10.1145/3603163.3609062

Publishing, linking and translating news in multilingual communities: a mirror of cultural differences?
Hypertext Conference 2024

- DOI: https://doi.org/10.1145/3648188.3675143

Investigating news coverage and circulation over time in a quantitative manner: the TARO framework
New Review of Hypermedia and Multimedia Journal 2024

- DOI: https://doi.org/10.1080/13614568.2024.2432300

PROJECTS

TARO - Tons of Articles Ready to Outline

- Developed in the context of Bachelor's internship at NTNU, expanded in subsequent works;
- Framework for the collection and the comparative analysis of *same topic* newspaper articles;
- Published and presented papers to *Hypertext* conference, winning an *ACM Award* at HT'23.
- https://github.com/JosephCarrino/ConcepTitle

SAET - Self-Attentive EmoBERTa for Trigger

- University project for *Natural Language Processing* and *Ethics for Artificial Intelligence* courses;
- Implemented PyTorch model using BERT-based model as a backbone, validated on MELD dataset;
- Different Machine/Deep Learning techniques and assessment of models' explainability with explored and novel methodologies.
- https://github.com/JosephCarrino/NLP_Project

RagnaBot

- University project for *Fundamentals of Artificial Intelligence and Knowledge Representation* course;
- Autonomous player for the board game *Tablut*, ranked 2nd at student competition;
- Used Java's AIMA library and Scikit-Learn Machine Learning models.
- https://github.com/JosephCarrino/RagnaBot

TECHNICAL SKILLS

Programming Languages

- Python
- Java
- TypeScript

Libraries

- NumPy
- SciPy
- PyTorch
- SpaCy
- Scrapy
- Matplotlib

LANGUAGES

Italian

- Native

Spanish

- Intermediate

English

- Fluent

French

- Basic