

# Lorenzo Lupo

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🌐 [lorelupo](#)

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## Education

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- Jan. 2020-  
Mar. 2023 **PhD in Computer Science** at **Université Grenoble Alpes & Naver Labs Europe**  
Subject: Context-aware Neural Machine Translation. Supervised by [Laurent Besacier](#) and [Marco Dinarelli](#).
- 2016-2019 **M.S. in Management Engineering** (double degree) at **Politecnico di Milano**  
Specialization: Social Innovation & Artificial Intelligence. Grade: 110/110 cum laude.
- 2014-2016 **M.S. in Engineering** (double degree) at **École Centrale Paris**  
Grade: 3,53/4. Awarded excellence scholarship by the Association des Centraliens.

## Experience

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- Apr. 2023-  
present **Postdoctoral Research Fellow** at **Università Bocconi**  
Working at crossroads between NLP and Social Science. Main: measure and track inequalities through social media data.
- Feb. 2021-  
present **Research Interns' Director**
  - Supervising Alex Lucchini on *Mapping the European Political Landscape on Population Ageing*.
  - Supervising Michele Scarnera on *Job Shop Scheduling with Priority Function Embeddings*.
  - Supervised Laura Alonzo-Canul on *Efficient Transformers for Long Context-Aware NMT* (concluded in 2022).
- Jan. 2021-  
Apr. 2022 **Teaching Assistant** at **Université Grenoble Alpes**
  - Preparing and leading exercise classes on NLP at [Polytech Grenoble \(bachelor - L3 level\)](#).
  - Preparing and leading exercise classes on NLP at [ENSIMAG \(master - M1 level\)](#).
- Feb. 2019 **Machine Learning Intern** at **Indigo AI, Milan**
  - Researching and developing state-of-the-art natural language processing algorithms for [Indigo AI's](#) chatbots.
- Aug. 2018 **Data Scientist** at **DIG, Politecnico di Milano**
- Nov. 2018
  - Applied clustering techniques to identify socio-economical similarities between 37 developing countries.
  - Worked on the integration of my analysis into a broader research project for [Eni S.p.A.](#)
  - Main tools: Numpy, pandas, scikit-learn.
- Jun. 2016 **Data Science Intern** at **European Investment Fund, Luxembourg**
- Dec. 2016
  - Designed statistical tools to assess the economic and social impact of EIF's programmes for SMEs.
  - Assessed two major European investment programs, [COSME](#) and [InnovFin](#), reporting to European Commission.
  - Built a VBA library in order to allow non-technical colleagues to easily repeat the same assessment in the years to come.

## Publications & Communications

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- Oct 2023 **A Dataset for Demographic Classification of Italian Twitter Users and a Comparison of Prediction Methods.**  
*Paper* Authors: Lorenzo Lupo, Marco Dinarelli and Laurent Besacier. Under review at [LREC-COLING 2024](#).
- Feb 2023 **Encoding Sentence Position in Context-Aware Neural Machine Translation with Concatenation**  
*Paper+Talk* Authors: Lorenzo Lupo, Marco Dinarelli and Laurent Besacier. Oral presentation at [Insights 2023](#), Dubrovnik.
- Dec 2022 **Focused Concatenation for Context-Aware Neural Machine Translation**  
*Paper+Talk* Authors: Lorenzo Lupo, Marco Dinarelli and Laurent Besacier. Oral and poster presentation at [WMT 2022](#), Abu Dhabi.
- May 2022 **Divide and Rule: Effective Pre-Training for Context-Aware Multi-Encoder Translation Models**  
*Paper+Talk* Authors: Lorenzo Lupo, Marco Dinarelli and Laurent Besacier. Oral and poster presentation at [ACL 2022](#), Dublin.
- Jun. 2019 **Optimistic Policy Optimization via Multiple Importance Sampling**  
*Paper* Authors: Matteo Papini, Alberto Metelli, Lorenzo Lupo, Marcello Restelli. Oral (by Matteo) and poster presentation at [ICML 2019](#), Long Beach, California.
- 5 Oct. 2021 **Pre-Training Techniques for Context-Aware Multi-Encoder Translation Models**  
*Talk* Scientific seminar at [Naver Labs Europe](#) research center; Grenoble.
- 10 Jul. 2020 **Recent Advances in Document-Level Neural Machine Translation**  
*Talk* Scientific seminar at [LIG-GETALP](#), Université Grenoble Alpes; Grenoble.

## Skills

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- Languages** **Italian:** native; **English:** fluent (working language); **French:** fluent (lived 5 years in France).
- Computer skills** **Python** (pytorch, fairseq, hugging face, pandas, scikit-learn, numpy,...), **R**, **bash**, **VBA**, **SQL**.