

# Lorenzo Lupo

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## 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* **Mentor for Research Interns at Università Bocconi and UGA**
- Mentoring Alex Lucchini on *Mapping the European Political Landscape on Population Ageing*.
  - Mentoring Michele Scarnera on *Job Shop Scheduling with Priority Function Embeddings*.
  - Mentoring Laura Alonzo-Canul on *Efficient Transformers for Long Context-Aware NMT* (concluded in 2022).
- Jan. 2021-present* **Teaching Assistant**
- Teaching Python to PhD students in the [Social and Political Science PhD program at Università Bocconi](#) (2024).
  - Preparing and leading exercise classes on [NLP at Polytech Grenoble](#) (bachelor - L3 level; 2021,2022).
  - Preparing and leading exercise classes on [NLP at ENSIMAG](#) (master - M1 level; 2021,2022).
- Feb. 2019* **Machine Learning Intern at Indigo AI, Milan**
- Jul. 2019*
- 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.
- 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.

## Education

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- Jan. 2020-* **PhD in Computer Science at Université Grenoble Alpes & Naver Labs Europe**  
*Mar. 2023* 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.

## Publications & Selected Communications

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- Jan 2024* **Beyond the Stats: Realities, Perception, and Social Media Discourse on Poverty**  
*Paper* Authors: Paul Bose, **Lorenzo Lupo**, Mahyar Habibi, Dirk Hovy, Carlo Schwarz. To appear in [AEA Papers and Proceedings](#).
- Nov 2023* **LLMs for Text Coding: The Case of Fatherhood Roles in Public Policy Documents**  
*Paper* Authors: **Lorenzo Lupo**, Oscar Magnusson, Dirk Hovy, Elin Naurin, Lena Wängnerud. Preprint on arXiv.
- Oct 2023* **A Dataset for Demographic Classification of Italian Twitter Users and a Comparison of Prediction Methods.**  
*Paper* Authors: **Lorenzo Lupo**, Paul Bose, Mahyar Habibi, Dirk Hovy, Carlo Schwarz. To appear 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+Talk* Authors: Matteo Papini, Alberto Metelli, **Lorenzo Lupo**, Marcello Restelli. Oral and poster at [ICML 2019](#), Long Beach, CA.
- 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.