

Lorenzo Lupo

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Jobs

- Apr. 2023-
Apr. 2024 **Postdoctoral Research Fellow** at Università Bocconi
AI for the Social Sciences. 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* (concluded in March 2024).
 - 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).
 - Teaching exercise classes on [NLP at Polytech Grenoble](#) (bachelor - L3 level; 2021,2022).
 - Teaching 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 NLP solutions for [Indigo AI](#)'s chatbots.
- Aug. 2018 **Data Scientist** at DIG, Politecnico di Milano
- Nov. 2018
- Studying socio-economical features of 37 developing countries with unsupervised machine learning.
- Jun. 2016 **Data Science Intern** at European Investment Fund, Luxembourg
- Dec. 2016
- Assessing the economic and social impact of EIF's programmes for SMEs with statistical tools and methods.

Education

- 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** at Politecnico di Milano
Specialization: Social Innovation & Artificial Intelligence. Grade: 110/110 cum laude.
- 2014-2016 **M.S. in Mathematical Engineering** at École Centrale Paris
Grade: 3,53/4. Awarded excellence scholarship by the Association des Centraliens.
- 2024 courses **AI Governance Course** by ASF - **BEAT program on Advanced Teaching** by Bocconi University.

Publications

- Jan 2024 **Beyond the Stats: Realities, Perception, and Social Media Discourse on Poverty**
Authors: Paul Bose, **Lorenzo Lupo**, Mahyar Habibi, Dirk Hovy, Carlo Schwarz. Published by [AEA Papers and Proceedings](#).
- Nov 2023 **LLMs for Text Coding: The Case of Fatherhood Roles in Public Policy Documents**
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.**
Authors: **Lorenzo Lupo**, Paul Bose, Mahyar Habibi, Dirk Hovy, Carlo Schwarz. Published by [LREC-COLING 2024](#).
- Feb 2023 **Encoding Sentence Position in Context-Aware Neural Machine Translation with Concatenation**
Authors: **Lorenzo Lupo**, Marco Dinarelli and Laurent Besacier. Published by [Insights 2023](#).
- Dec 2022 **Focused Concatenation for Context-Aware Neural Machine Translation**
Authors: **Lorenzo Lupo**, Marco Dinarelli and Laurent Besacier. Published by [WMT 2022](#).
- May 2022 **Divide and Rule: Effective Pre-Training for Context-Aware Multi-Encoder Translation Models**
Authors: **Lorenzo Lupo**, Marco Dinarelli and Laurent Besacier. Published by [ACL 2022](#).
- Jun. 2019 **Optimistic Policy Optimization via Multiple Importance Sampling**
Authors: Matteo Papini, Alberto Metelli, **Lorenzo Lupo**, Marcello Restelli. Published by [ICML 2019](#).

Communications

- Oct 2023 **A Dataset for Demographic Classification of Italian Twitter Users and a Comparison of Prediction Methods.**
Poster presentation at [LREC-COLING 2024](#).

- Mar 2024* **MENTALISM conference**
Co-organized conf. on AI and social media data for the social sciences; taking place in Bocconi University.
- Mar 2023* **Towards Human-Level Text Coding with LLMs**
Talk at [DAISI Breakfast Bytes](#), Milan, Italy.
- Feb 2023* **Encoding Sentence Position in Context-Aware Neural Machine Translation with Concatenation**
Talk at [Insights 2023](#), hosted by EACL in Dubrovnik, Croatia.
- Dec 2022* **Focused Concatenation for Context-Aware Neural Machine Translation**
Talk and poster presentation at the [7th Conference on Machine Translation](#), Abu Dhabi, United Arab Emirates.
- May 2022* **Divide and Rule: Effective Context-Aware Multi-Encoder Translation Models**
Talk and poster presentation at the [60th Annual Meeting of the Association for Computational Linguistics](#), Dublin, Ireland.
- Oct 2021* **Pre-Training Techniques for Context-Aware Multi-Encoder Translation Models**
Talk at [Naver Labs Europe](#) research center, Grenoble, France.
- Jul 2020* **Recent advances in document-level neural machine translation**
Talk at [LIG-GETALP](#), Université Grenoble Alpes, Grenoble, France.
- Jun 2020* **Optimistic Policy Optimization via Multiple Importance Sampling**
Poster presentation at the [36th International Conference on Machine Learning](#), Long Beach, California (US).

Skills

Languages **Italian:** native; **English:** fluent (working language); **French:** fluent (lived 5 years in France; worked with it).

Computer skills **Python** (pytorch, fairseq, hugging face, pandas, scikit-learn, numpy,...), **R**, **bash**, **VBA**, **SQL**, **AWS**.