Lorenzo **Lupo**

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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** (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

Apr. 2023- *present*	**Postdoctoral Research Fellow** at Università Bocconi Developing natural language processing techniques to measure and track inequalities through social media data.
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. 2021- *Aug. 2021*	**Supervisor of Master Thesis** at Université Grenoble Alpes • Master thesis by Laura Alonzo-Canul, co-supervised with Marco Dinarelli. • Title: Efficient Transformers for long context-aware neural machine translation
Feb. 2019 *Jul. 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 *Nov. 2018*	**Data Scientist** at DIG, Politecnico di Milano • 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 *Dec. 2016*	**Data Science Intern** at European Investment Fund, Luxembourg • 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

Feb 2023 *Paper*	**Encoding Sentence Position in Context-Aware Neural Machine Translation with Concatenation** Authors: Lorenzo Lupo, Marco Dinarelli and Laurent Besacier. Preprint on arXiv.
Dec 2022 *Paper+Talk*	**Focused Concatenation for Context-Aware Neural Machine Translation** Authors: Lorenzo Lupo, Marco Dinarelli and Laurent Besacier. Presented with an oral and poster presentation at the 7th Conference on Machine Translation, in Abu Dhabi, United Arab Emirates. Published in the proceedings.
May 2022 *Paper+Talk*	**Divide and Rule: Effective Pre-Training for Context-Aware Multi-Encoder Translation Models** Authors: Lorenzo Lupo, Marco Dinarelli and Laurent Besacier. Presented with an oral and poster presentation at the 60th Annual Meeting of the Association for Computational Linguistics, in Dublin, Ireland. Published in the proceedings
Jun. 2019 *Paper*	**Optimistic Policy Optimization via Multiple Importance Sampling** Authors: Matteo Papini, Alberto Metelli, Lorenzo Lupo, Marcello Restelli. Presented with a poster (and orally by Matteo) at the 36th International Conference on Machine Learning, in Long Beach, California, US. Published in the proceedings..
5 Oct. 2021 *Talk*	Pre-Training Techniques for Context-Aware Multi-Encoder Translation Models Scientific seminar at Naver Labs Europe research center; Grenoble, France.
10 Jul. 2020 *Talk*	Recent Advances in Document-Level Neural Machine Translation Scientific seminar at LIG-GETALP, Université Grenoble Alpes; Grenoble, France.

Skills

Languages	**Italian**: native; **English**: fluent (TOEFL ITP: 640/667); **French**: fluent (lived 5 years in France).
Computer skills	**Python** (pytorch, fairseq, hugging face, pandas, scikit-learn, numpy,...), **R, bash, VBA, SQL**.