

# Lorenzo Lupo

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## Education

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- Jan. 2020-present* **PhD in Computer Science** at Université Grenoble Alpes  
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 Mathematical Engineering** (double degree) at École Centrale Paris  
Grade: 3,53/4. Awarded excellence scholarship by the Association des Centraliens.
- 2012-2014* **B.S. in Mathematical Engineering** at Politecnico di Milano  
Grade: 106/110.

## Experience

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- 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 Engineer Intern** at Indigo AI
- Researching and developing state-of-the-art natural language processing algorithms for Italian-speaking chatbots.
- Aug. 2018-Nov. 2018* **Data Scientist** at DIG, Politecnico di Milano
- Applied various clustering techniques to unveil 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 Scientist Intern** at European Investment Fund
- Designed various 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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- Dec 2022* **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* **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](#)
- 5 Oct. 2021* **Pre-Training Techniques for Context-Aware Multi-Encoder Translation Models**  
Scientific seminar at [Naver Labs Europe](#) research center; Grenoble, France.
- 10 Jul. 2020* **Recent advances in document-level neural machine translation**  
Scientific seminar at [LIG-GETALP](#), Université Grenoble Alpes; Grenoble, France.
- Jun. 2019* **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..](#)

## Skills

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- Main Soft** Critical and analytical thinking; Communication and teaching; Autonomous work; Project management.
- Languages** **Italian:** native; **English:** fluent (TOEFL ITP: 640/667); **French:** fluent (lived 4 years in France).
- Computer skills** **Python** (pytorch, fairseq, hugging face, pandas, scikit-learn, numpy), **R**, **bash**, **VBA**, **SQL**.