Pietro Lesci

pietrolesci@outlook.com |

EDUCATION

PHD STUDENT @ UNIVERSITY OF CAMBRIDGE

October 2021 - present | Cambridge, UK

I am working with Prof Andreas Vlachos on compute- and data-efficient approaches for NLP. Currently focusing on active learning for large and imbalanced datasets [2]

MSC ECONOMIC AND SOCIAL SCIENCES @ BOCCONI UNIVERSITY

Sept 2016 - Mar 2019 | Milan, IT

I specialised in Bayesian Statistics, Econometrics, and Causality. Dissertation: "Deep Learning: A Statistical Perspective". Grade: 104/110

BSC ECONOMICS AND MANAGEMENT @ UNIVERSITA' CATTOLICA DEL SACRO CUORE

Sept 2013 - Sept 2016 | Milan, IT

I specialised in Macroeconomics and Agent-Based Modelling. Dissertation: "Market Sentiment and Monetary Policy". Grade: 110/110 summa cum laude

SCIENTIFIC HIGH SCHOOL DIPLOMA @ LICEO SCIENTIFICO

Sept 2008 - July 2013 | Castrovillari, IT

The curriculum emphasised the link between the humanistic tradition and scientific culture. Grade: 95/100

PROFESSIONAL EXPERIENCE

APPLIED SCIENTIST INTERN @ AMAZON AWS AI LABS

September 2022 - January 2023 | Barcelona, ES

I worked with Lluis Marquez on efficient dialogue state tracking with large language models. Our work was published at the ACL 2023 conference [1]

SENIOR ASSOCIATE, DATA SCIENCE @ BAIN & COMPANY

March 2020 - October 2021 | Milan, IT

- Data-driven quality assurance (industry: mining)
- Pricing optimization (industry: packaging machines)
- Predictive maintenance in hydropower plants (industry: energy)
- Client segmentation (industry: road tolls and telco)
- Brand penetration maps (industry: food & beverages)
- Development of an internal Python library for NLP

RESEARCH ASSISTANT @ BOCCONI UNIVERSITY BIDSA CENTER

August 2019 - March 2020 | Milan, IT

I specialised in NLP working with Prof Dirk Hovy on the identification of online abuse on Twitter and developed the *Wordify* and *MACE* web-apps

DATA SCIENCE TRAINEE @ EUROPEAN CENTRAL BANK

February 2018 - November 2018 | Frankfurt am Main, DE

- Data quality management of granular master data
- Database reconciliation: lead of the RIAD-GLEIF reconciliation project
- Automation of a data ingestion and de-duplication procedure (80% efficiency gain) used in the computation of the Euro Short-Term rate
- Production of official statistical reports published on the ECB website

ACADEMIC ROLES

CONFERENCE REVIEWER

Reviewed for top-ranked international conferences (ACL, EACL, and EMNLP)

HEAD DEMONSTRATOR

Machine Learning and Real-world Data, University of Cambridge, 2022 and 2023

SUPERVISOR

Machine Learning and Real-world Data, University of Cambridge, 2022

PUBLICATIONS

- [1] P. Lesci, Y. Fujinuma, M. Hardalov, C. Shang, Y. Benajiba, and L. Marquez. Diable: Efficient dialogue state tracking as operations on tables. In Findings of the Association for Computational Linguistics: ACL 2023, pages 9697–9719, Toronto, Canada, July 2023. Association for Computational Linguistics.
- [2] P. Lesci and A. Vlachos. Computationally efficient active learning for large imbalanced datasets. Under Review.

TALKS

"Transformer Models in NLP, Theory and Applications" @ Ammagamma, 2022

SKILLS

Italian (native), English (fluent), and French (basic). Python, R, Stata, SQL, LaTeX, Julia, MATLAB, and Rust

EXTRACURRICULAR

MUSIC EDUCATION & PRACTICE

Enrolled in the BSc in Jazz, GPA 29.7/30. Classical Piano (12 years) and Bass Guitar (10 years) studies obtaining Sol-Fa degree and Piano 5th year diploma. Organist and Choir Director. Singer, bassist, and arranger in jazz ensembles and a rock trio

LINKS

Github: github.com/pietrolesci **Twitter-X:** @pietro_lesci

LinkedIn: linkedin.com/pietrolesci **Personal Page:** pietrolesci.github.io