

PERSONAL INFORMATION

Lorenzo Mancini

 Vocabolo Petrarà 12, 05020, Avigliano Umbro (TR), Italy

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Sex Male | Date of birth 01/10/1989 | Nationality Italian

PREFERRED JOB

Data Scientist

WORK EXPERIENCE

1 December 2020 - Present

Senior Data Scientists

CROS NT S.r.l.

Via Germania 2, 37136, Verona (Italy)

www.crosnt.com

- Leading the data science activities of client projects and internal projects, including complex projects
- Supporting in managing and deploying resources effectively
- Providing support through coaching and mentoring to the data science department
- Supporting the maintenance of an effective data science department
- Analysing and interpreting large amounts of data from a range of sources, using algorithmic, data mining, artificial intelligence, machine learning and statistical tools
- Delivering assigned tasks and projects within agreed timelines and quality standards

Business or sector Contract Research Organization

1 September 2017 –
30 November 2020

Assistant researcher

INVALSI (Italian National Institute for the Evaluation of the Educational System)

Via Ippolito Nievo 35, 00152, Roma (Italy)

www.invalsi.it

- Statistical analysis of data for different research projects
- Sampling activities
- Data repository supervision
- Coordinator of a network of University teams and contact person for web platform for the national research project "Evaluating the School-Work Alternance: a longitudinal study in Italian upper secondary schools"
- Coordination of external teams of evaluators over the Italian nation territory in the framework of Italian national system of evaluation
- Support and assistance to external experts for data input

Business or sector Public research institution

2016 - 2017

Teaching assistance

University of Bologna, Department of Statistical Science "Paolo Fortunati"

Via delle Belle Arti, 41, 40126, Bologna (Italy)

- Tutor for the course of "Parametric and nonparametric inference", Master's degree in Statistical Science
- Laboratory exercises in R
- Production of teaching materials and student reception

Business or sector University education

2016 - 2017

Teaching assistance

University of Bologna, Department of Statistical Science "Paolo Fortunati"
Via delle Belle Arti, 41, 40126, Bologna (Italy)

- Tutor for the course of "Time series", Master's degree in Statistical Science
- Laboratory exercises in R
- Production of teaching materials and student reception

Business or sector University education

2016 - 2017 **Teaching assistance**

University of Bologna, Department of Political Science
Strada Maggiore, 45, 40125, Bologna (Italy)

- Tutor for the course of "Statistics", Bachelor's degree in Political and Social Science
- Laboratory exercises in Microsoft Office Excel
- Production of teaching materials and student reception

Business or sector University education

May 2015 – October 2015 **Participation to research project**

University of Bologna, Department of Statistical Science "Paolo Fortunati"
Via delle Belle Arti, 41, 40126, Bologna (Italy)

- Team member of the research project for the development of the platform "ASKme" with the Network Contacts s.r.l. company (European fund for industrial research and experimental development)
- Developing of R code for machine learning, clustering and classification tasks. The code is aimed at the implementation of a software for the search and storage of textual data from a phone company call centre

Business or sector Public research

15 January 2014 – 15 April 2015 **Assistant researcher**

INVALSI (Italian National Institute for the Evaluation of the Educational System)
Via Ippolito Nievo 35, 00152, Rome (Italy)
www.invalsi.it

- Data cleaning, data visualization and statistical analyses for the research project "Valutazione e Miglioramento" (European funds, PON 2007-2013)
- Support and assistance to schools and external experts for data input
- Coordination of working teams on data use and interpretation during the Seminar "Il Rapporto di Autovalutazione", November 2014, Rome (Italy)

Business or sector Public research institution

2012 - 2013 **Teaching assistance**

University of Bologna, Department of Statistical Science "Paolo Fortunati"
Via delle Belle Arti, 41, 40126, Bologna (Italy)

- Tutor for the course of "Statistics and Probability theory", Bachelor's degree in Statistical Science
- Laboratory exercises in Microsoft Office Excel
- Production of teaching materials and student reception

Business or sector University education

EDUCATION AND TRAINING

October 2014 – October 2017 **Ph.D. in Statistical Science**

QEQ Level 8

University of Bologna, Department of Statistical Science "Paolo Fortunati", Bologna (Italy)

- Thesis title: "Ordinal data supervised classification with Quantile-based and other classifiers"
- The subject of the thesis is the classification of variables measured on ordinal scale through Generalized latent variable model

- Work implemented with the statistical software R (packages MASS, quantileDA, e1071)

1 March 2016 – 30 June 2016

Visiting Ph.D. student

University College of London, Department of Statistics, London (England)

- Developing of Ph.D. thesis under the supervision of prof. Christian Martin Hennig

13 October 2013

Master's degree in Statistical Science

QEeq Level 7

University of Bologna, Department of Statistical Science "Paolo Fortunati", Bologna (Italy)

- Main topics: Inference, multivariate analysis, data mining, nonparametric methods, statistical models;
- Thesis title: "Classification rate on real input data for binary neural network classifier". The thesis main subject is the classification of binary variables through neural network model.
- Work implemented with the statistical software R (package neuralnet)
- Final mark: 110/110 (with honours)

15 February 2013 – 15 June 2013

Visiting student

University of Chicago, Department of Statistics, Chicago, Illinois (USA)

- Developing of Master's thesis under the supervision of prof. Yali Hamit

13 July 2011

Bachelor's degree in Statistical Science

QEeq Level 6

University of Bologna, Department of Statistical Science "Paolo Fortunati", Bologna (Italy)

- Main topics: Linear algebra, financial statistics, inference, multivariate analysis, applied Bayesian modelling, linear mixed models, probability theory
- Thesis title: "Physical activity and sedentary behaviour in overweight/obese dogs compared with normal weight dogs". The thesis main subject is identifying factors which are mainly associated with dogs' obesity through linear mixed model
- Work implemented with the statistical software R (package lme4)
- Final mark: 110/110 (with honours)

29 June 2011

Bachelor with Honours in Statistics (double degree programme)

QEeq Level 6

University of Glasgow, Department of Statistic, Glasgow (Scotland)

- Linear algebra, financial statistics, inference, multivariate analysis, biostatistics, applied Bayesian modelling, linear mixed models, probability theory
- Within the double degree programme, I have spent the third year at the University of Glasgow, where I have developed my bachelor thesis

PERSONAL SKILLS

Mother tongue

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Excellent communication skills gained from experience as visiting students at different foreign Universities, public discussions and presentations.

Organisational / managerial skills

- Relational skills
- Learning Driven
- Team player
- Trustworthy
- Professional
- Ability to effectively prioritize

- Problem Solving Skills
- Learning agility
- Networking Skills
- Analytical thinking
- Ability to Provide Constructive Feedback

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Independent user	Independent user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- Years of experience in the use, programming and teaching of the statistical software R
- Proficient use of SPSS
- Proficient use of Window Office suite (Excel, Word, Power Point, Access)
- Good knowledge of SAS, STATA, LISREL and GRETEL
- Good knowledge of Visual Basic
- Basic knowledge of Tableau
- Good knowledge of Python

ADDITIONAL INFORMATION

Publications

- Sette, S., Mancini, L., & Poliandri, D. (2018). Qualità della relazione insegnante-studenti e rendimento scolastico: uno sguardo dentro le classi secondarie di primo grado. *Rassegna Italiana di Valutazione*, 22(70). DOI: 10.3280/RIV2018-070007
- Mancini, L. (2018). Ordinal data supervised classification with Quantile-based and other classifiers (Doctoral dissertation, alma). DOI: 10.6092/unibo/amsdottorato/8543
- Mancini L., Sacco C. (2020). A comparison of regression tree-based features selection methods for the prediction of academic performances. *INVALSI DATA: METODOLOGIES AND RESULTS. III Seminar INVALSI data: a research tool*. pp. 74-90. Franco Angeli Editore. ISBN-13: 9788835113850.
- Sacco C., Mancini L. Predictors of Italian student academic achievements: a comparison of variables selection methods. In course of publication.

Conferences

- D. Poliandri, B. Molinari, E. N. Ballati, U. Favazzi, S. Sette, L. Mancini. Pathways for transversal skills and orientation: a useful guide for students?. *Il International Conference of the journal "Scuola Democratica"*. 2-5 June 2021.
- M.C. Russo, E. N. Ballati, L. Mancini. Tra disuguaglianze sociali e divari territoriali: gli studenti italiani di III secondaria di I grado alla prova INVALSI di Inglese. *XIII Conferenza ESPAnet Italia 2020 Il welfare state di fronte alle sfide globali*. 17-19 September 2020, Italy.
- L. Mancini, S. Sette, D. Poliandri. Profiles of Teaching Practices and Sixth Grade Students' Scholastic Performances. *International Congress for School Effectiveness and Improvement*. 8-12 January 2019, Stavanger, Norway.
- L. Mancini, S. Sette, D. Poliandri. Pratiche Didattiche e Rendimento Scolastico nelle Scuole Secondarie di I Grado: Uno Studio sui diversi Profili di Insegnamento. *Poster presentation. XXXI Congresso nazionale AIP sezione Psicologia dello Sviluppo e dell'Educazione*. 17-19 September 2018, Torino.
- S. Sette, L. Mancini, D. Poliandri. Qualità dell'insegnamento e rendimento scolastico nella scuola secondaria di primo grado: Un primo sguardo dentro le classi. *XXI Congresso AIV*. 5-7 April 2018, L'Aquila, Italy.

Seminars

- S. Sette, L. Mancini, D. Poliandri. Le Performance Scolastiche degli Studenti nelle Scuole Secondarie di I Grado: il Ruolo della Qualità dell'Insegnamento, dell'Autoefficacia e del Piacere nello Studio. *III Seminario I Dati INVALSI: Uno strumento per la ricerca*. 26-28 October 2018, Bari Italy.
- C. Sacco, L. Mancini. Student, teacher and school predictors of student academic performances: a comparison of machine learning feature selection methods. *III Seminario I Dati INVALSI: Uno*

strumento per la ricerca. 26-28 October 2018, Bari, Italy.

Technical report

- P. Muzzioli, L. Mancini, G. F. Esteban. Checklist e Scale di valutazione: validità, attendibilità, primi risultati. http://www.invalsi.it/invalsi/ri/audit/doc_VM.php
- S. Romiti, L. Mancini. Come sono valutate le Scuole. <http://www.invalsi.it/invalsi/ri/vales/doc.php>

Scholarship

- Marco Polo scholarship provided by the University of Bologna, Department of Statistical Science "Paolo Fortunati" for the study period abroad at the University College London, Department of Statistics.