

LORENZO TESTA · CV

Tuesday 24th May, 2022

PERSONAL INFORMATION

Date of birth September, 6th 1998
Address via San Lorenzo 26, Pisa, Italy
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Orcid [0000-0003-2782-4846](https://orcid.org/0000-0003-2782-4846)

RESEARCH INTERESTS

Analysis of structured and complex data (e.g., functional and network data); statistical stability; computational statistics; statistical machine learning

EXPERIENCE

Teaching Assistant

- 2022– · “Statistics” (undergraduate level) · Department of Economics, University of Pisa, Italy
- 2022 · “Applied Statistics” (undergraduate level) · Sant’Anna School of Advanced Studies, Italy
- 2021 · “Macroeconomics” (undergraduate level) · Department of Economics, University of Pisa, Italy

2022– Research Assistant

The Climate Repository Project · Sant’Anna School of Advanced Studies, Italy

2021 Visiting Scholar

Department of Statistics, Eberly College of Science, The Pennsylvania State University, United States · Research on COVID-19 data using Functional Data Analysis techniques; attendance, departmental seminars and “Multivariate Analysis” (STAT 565) lectures

2020–2021 Data Analyst

Data analyst for the Tuscany Regional Medical Service, USL Toscana Nord-Ovest, Italy · Analysis of COVID-19 textual data

EDUCATION

University of Pisa, Italy

- M.Sc. in Computer Science* → 2020– · Master of Science in Computer Science (“Data Science and Business Informatics”, LM-18) · GPA: 30/30 · Expected graduation: July 2022
- B.Sc. in Economics* → 2017–2020 · Bachelor degree in Economics (“Economia e Commercio”, L-33) · Final grade: 110/110 *cum laude et encomium* (highest honors) · Graduated in February 2020, one semester ahead of the standard term

Sant’Anna School of Advanced Studies, Italy

Competitive honors program ($\approx 5\%$ admission rate) · 5-year full government-funded scholarship (housing, canteen, travel grants), honor courses, yearly dissertations, language studies and GPA requirements

- Master Diploma in Economics* → 2020– · Master Diploma in “Economic Sciences” · GPA: 29.4/30 · Expected graduation: December 2022
- Diploma in Economics* → 2017–2021 · Diploma in “Economic Sciences” · Final grade: 100/100 *cum laude* (highest honors)

<i>Machine Learning Summer School</i>	2021	University of Genova, Italy
	Summer School in “ <i>Regularization Methods for Machine Learning</i> ”, hosted by MaLGa (Machine Learning Centre of the University of Genova) in partnership with MIT	
<i>Economic Networks Summer School</i>	2020	University of Oxford, United Kingdom
	Summer School in “ <i>Economic Networks</i> ”, hosted by the Mathematical Institute and the Institute for New Economic Thinking, University of Oxford	
<i>Erasmus Program</i>	2019	University of Galway, Ireland
	Exchange student, Department of Business and Economics, National University of Ireland, Galway (NUIG)	
<i>Data Science Summer School</i>	2019	Data Science Summer School, Pisa, Italy
<i>High School Diploma</i>	2012-2017	Liceo Scientifico Filippo Lussana, Bergamo, Italy
	Final grade: 100/100	
<i>High School Exchange Program</i>	2016	Urrbrae High School, Adelaide, South Australia
	Exchange student for one academic semester · Recognition of “ <i>academic excellence</i> ”	

RESEARCH & PUBLICATIONS

*: equal contribution; ✉: correspondence

<i>Published papers</i>	BOSCHI, T., DI IORIO, J., TESTA, L., CREMONA, M. A.✉, CHIAROMONTE, F.✉ · Functional data analysis characterizes the shapes of the first COVID-19 epidemic wave in Italy · Scientific Reports 11 , 17054 (2021)	
<i>Book chapters & Conference proceedings</i>	ESPOSITO, C.*, GORTAN, M.*, TESTA, L.*✉, CHIAROMONTE, F., FAGIOLO, G., MINA, A., ROSSETTI, G. · Can you always reap what you sow? Network and functional data analysis of venture capital investments in health-tech companies · Proceedings of the 10 th International Conference on Complex Networks and Their Applications (2021)	
	PAPA, S.*, ROSI, B.*, TESTA, L.*✉, VASELLI, F.*, ROSSETTI, G. · Inequality in the menu: how a network of restaurants characterizes social disparities in Boston · Book of Abstracts of the 10 th International Conference on Complex Networks and Their Applications (2021)	
<i>Working papers</i>	ESPOSITO, C.*, GORTAN, M.*, TESTA, L.*✉, CHIAROMONTE, F.✉, FAGIOLO, G., MINA, A., ROSSETTI, G. · Venture capital investments through the lens of network and functional data analysis · LEM Working Paper Series 2022/07 & ArXiv (2022)	
	BOSCHI, T.*, DI IORIO, J.*, TESTA, L.*, CREMONA, M. A., CHIAROMONTE, F. · Contrasting waves of COVID-19 epidemic in Italy through Functional Data Analysis · Manuscript in advanced stage of preparation	
<i>Resting papers</i>	TESTA, L. (supervised by CHIAROMONTE, F. and MINA, A.) · The DNA of science: network analysis of publications in genomics · Sant’Anna Colloquium Paper (2021)	
	TESTA, L. (supervised by FIASCHI, D.) · Public debt trajectories: an endogenous growth model · Bachelor Thesis (2020)	
	TESTA, L. (supervised by FIASCHI, D.) · Expansion vs consolidation: a tale on fiscal multipliers · Sant’Anna Colloquium Paper (2019)	
	TESTA, L. (supervised by MINA, A.) · The art of answering: how PageRank works · Sant’Anna Colloquium Paper (2018)	

TALKS

April 2022 · Trajectories towards success: characterizing venture capital investment networks · ICHEC Brussels Management School, Belgium

December 2021 · An evolving science: network perspectives from genomics · Sant'Anna School of Advanced Studies, Italy

May 2019 · Fiscal expansion versus consolidation · Sant'Anna School of Advanced Studies, Italy

May 2018 · PageRank, explained · Sant'Anna School of Advanced Studies, Italy

OTHER INFORMATION

<i>Programming Languages</i>	AMPL, C, Julia, L ^A T _E X, MatLab, Python, R, SQL
<i>Spoken Languages</i>	ITALIAN (Native) · ENGLISH (TOEFL score 108/120: CEFR C1) · SPANISH (exp. B1) · FRENCH (exp. B1)
<i>ASA Membership</i>	American Statistical Association student member
<i>Service</i>	<p>→ 2020–2022 · Honors students' representative in the Board of the Social Sciences academic class · Sant'Anna School of Advanced Studies</p> <p>→ 2020–2021 · Member of honors students' financial statement Committee · Sant'Anna School of Advanced Studies</p> <p>→ 2018–2020 · Member of honors students' public relations Committee · Sant'Anna School of Advanced Studies</p>
<i>Extra-curricular activities</i>	Arduino, hiking, gym