

Lorenzo Testa

Thursday 6th April, 2023

PERSONAL INFORMATION

Date of birth September, 6th 1998
Address Via Röntgen 1, Milan, Italy
E-mail l.testa@sss.it
Website testalorenzo.github.io
Orcid [0000-0003-2782-4846](https://orcid.org/0000-0003-2782-4846)

RESEARCH INTERESTS

High-dimensional statistics; optimal prediction theory; statistical stability; functional data and network analysis

EDUCATION

Sant'Anna School of Advanced Studies, Italy

Master Diploma in Economics → 2020–2023 · Master Diploma in Economics and Management · Final grade: 100/100 cum laude (highest honors)

Diploma in Economics → 2017–2020 · Diploma in Economics and Management · Final grade: 100/100 cum laude (highest honors)

University of Pisa, Italy

M.Sc. in Data Science → 2020–2022 · Master of Science in Data Science · Final grade: 110/110 cum laude (highest honors)

B.Sc. in Economics → 2017–2020 · Bachelor's degree in Economics · Final grade: 110/110 cum laude (highest honors) and special mention · Graduated one semester ahead of the standard term

High School Diploma 2012–2017 Liceo Scientifico Filippo Lussana, Italy
 Final grade: 100/100

RESEARCH & PUBLICATIONS

*: equal contribution; ✉: correspondence

- Published papers*
- 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](#) · Applied Network Science 7, 42 (2022)
 - 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)
- Book chapters & Conference proceedings*
- 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 10th 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 10th International Conference on Complex Networks and Their Applications (2021)
- Preprints & Working papers*
- BOSCHI, T., TESTA, L., REIMHERR, M., CHIAROMONTE, F. · [FAStEN: an efficient adaptive method for feature selection and estimation in high-dimensional functional regressions](#) · Submitted (2023+)
 - BOSCHI, T.*, DI IORIO, J.*, TESTA, L.*, CREMONA, M. A., CHIAROMONTE, F. · [Contrasting pre-vaccine COVID-19 waves in Italy through Functional Data Analysis](#) · In submission (2023+)

7. GORTAN, M., TESTA, L., FAGIOLO, G., LAMPERTI, F. · A unified repository for pre-processed climate data weighted by regionally-based economic activity · In submission (2023+)

FELLOWSHIPS & SCHOLARSHIPS

2017–2022 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

VISITING PERIODS

Visiting scholar 2021 Penn State University, United States

Visiting Scholar, Department of Statistics, Eberly College of Science, The Pennsylvania State University

Erasmus program 2019 University of Galway, Ireland

Exchange student, Department of Business and Economics, University of Galway

High School exchange program 2016 Urrbrae High School, South Australia

Exchange student for one academic semester · Recognition of “*academic excellence*”

SUMMER SCHOOLS

Machine Learning Summer School 2021 University of Genova, Italy

Summer School in “*Regularization Methods for Machine Learning*”, hosted by MaLGa (Machine Learning Centre of the University of Genova) in partnership with MIT

Economic Networks Summer School 2020 University of Oxford, United Kingdom

Summer School in “*Economic Networks*”, hosted by the Mathematical Institute and the Institute for New Economic Thinking, University of Oxford

Data Science Summer School 2019 Data Science Summer School, Italy

EXPERIENCE

2022–2023 Research Assistant

[The Climate Repository Project](#) · Sant’Anna School of Advanced Studies, Italy

Teaching Assistant

→ 2023 · “*Statistical learning and large data, module 2*” (undergraduate level) · Sant’Anna School of Advanced Studies, Italy

→ 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

2020–2021 Data Analyst

Analysis of COVID-19 chat bot textual data · Tuscany Regional Medical Service, USL Toscana Nord-Ovest, Italy

TALKS & POSTERS

*Invited and
contributed talks*

December 2022 · FASTEN: efficient feature selection and estimation in functional regressions · IMS International Conference on Statistics and Data Science (ICSDS), Florence, Italy · Contributed talk and [Poster](#)

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

Other talks

March 2023 · Unveiling research patterns of institutions via networks and functional data: evidence from genome research · Sant'Anna School of Advanced Studies, Italy · Dissertation

November 2022 · Next Generation Functional Data Analysis · Rotary Club Fiesole, Italy · Informative presentation

July 2022 · Functional feature selection in function-on-function regression models · University of Pisa, Italy · Dissertation

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

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

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

OTHER INFORMATION

*Programming
languages*

AMPL · C · Julia · L^AT_EX · Python · R · SQL

Spoken languages

ITALIAN (Native) · ENGLISH (TOEFL score 108/120: CEFR C1) · SPANISH (exp. B1) · FRENCH (exp. B1)

Editorial work

Journal referee for *Statistics in Medicine*

Memberships

American Statistical Association · Institute of Mathematical Statistics · Royal Statistical Society

Service

→ 2020–2022 · Honors students' representative in the Board of the Social Sciences academic class · Sant'Anna School of Advanced Studies

→ 2020–2021 · Member of honors students' financial statement Committee · Sant'Anna School of Advanced Studies

→ 2018–2020 · Member of honors students' public relations Committee · Sant'Anna School of Advanced Studies