

# CV Luca Coraggio

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Dept. Economics and Statistics,  
University of Naples Federico II  
Monte Sant'Angelo, Via Cintia, 21  
Room H11  
80126 - Naples, Italy

mailto: [luca.coraggio@unina.it](mailto:luca.coraggio@unina.it)



web: <https://luca-coraggio.com>

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(since)

## CURRENT POSITIONS

- 2025/04 Assistant Professor (*RTDA, STAT-01/A*) [@DISES](#), Dept. of Economics and Statistics, University of Naples Federico II, Naples (IT)
- 2022/01 Research fellow [@CSEF](#), Centre for Studies in Economics and Finance, University of Naples Federico II, Naples (IT)
- 2024/04 Member of Research Group [Statistical Models for High-dimensional and Functional data](#) Dept. of Biostatistics, University of Oslo, Oslo (NO)
- 2025/05 Ordinary member of Italian Statistical Society ([SIS](#)), [CLADAG](#) and [youngSIS](#) groups

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## EDUCATION

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- 2016/10 to 2020/02 PhD in Economics (XXXII ciclo), University of Naples Federico II, Naples (IT). Thesis: [Machine Learning Methods and Applications in Economics](#)
- 2017/09 to 2018/03 Visiting Student at Dept. of Computer Science, ETH Zurich, Swiss Federal Institute of Technology, Zurich (CH)
- 2014/10 to 2016/10 M.A. in Economics and Finance (LMEF), University of Naples Federico II, Naples (IT). 110/110 cum laude
- 2011/10 to 2014/10 B.A. in Economics, University of Naples Federico II, Naples (IT). 110/110 cum laude

## PAST POSITIONS

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- 2020/05 to 2025/04 Postdoctoral researcher [@DiSES Unina](#), Dept. of Economics and Statistics, University of Naples Federico II, Naples (IT)
- 2024/04 to 2024/07 Visiting researcher [@Institute of Basic Medical Sciences](#), University of Oslo, Oslo (NO)
- 2020/01 Research assistant [@EIEF](#), Istituto Einaudi per l'Economia e la Finanza, Rome (IT). Project: Machine Learning Estimation of Job-Worker Matches based on Swedish Administrative data. Resp. Prof. Marco Pagano
- 2019/09 Research assistant [@DiSES Unina](#), Dept. of Economics and Statistics, University of Naples Federico II, Naples (IT). PRIN 2015 The old age risk. Scientific head: Prof. Tullio Jappelli.
- 2015/09 to 2016/05 Research assistant for the ERC project "Finance and Labor" (FINLAB) coordinated by Professor Marco Pagano at CSEF, University of Naples Federico II, Naples (IT).
- 2015/09 to 2015/12 Internship [@InnoAid](#) (role: research assistant). Project: Street Food Project - Kolkata. Project in Development Economics, Kolkata, West Bengal, India.

## RESEARCH PROJECTS

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- 2025--2026 [Visitinps Scholars Program di Tipo B](#), Role: Collaboratore (Second Researcher). Project: Occupational Skill Mismatch and Firing Costs
- 2023--2026 Horizon EU Research participant. [TRAILS: Enabling data analytics for actions tackling skills shortages & mismatch](#). (HORIZON-CL2-2023-TRANSFORMATIONS-01-07, 101132673)
- 2022--2025 PRIN 2022 Research participant. Wealth, income and consumption inequality after COVID-19. PI: Prof. Tullio Jappelli. Università degli Studi di Napoli Federico II, Naples (IT).
- 2017--2020 PRIN 2017, Research participant. Information, firms' performance and workers' careers. PI: Prof. Fabiano Schivardi; Lead Researcher Prof. Marco Pagano. Università degli Studi di Napoli Federico II, Naples (IT)

## PUBLICATIONS

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### Working Papers

- [1] Luca Coraggio et al. *Mismatch in the 21st century: an overview*. Tech. rep. Working Paper no. 745. CSEF, 2024.

## Articles in Journals

- [2] Luca Coraggio et al. “JAQ of all trades: Job mismatch, firm productivity and managerial quality”. In: *Journal of Financial Economics* 164 (2025), p. 103992. ISSN: 0304-405X. DOI: [10.1016/j.jfineco.2024.103992](https://doi.org/10.1016/j.jfineco.2024.103992).
- [3] Luca Coraggio and Pietro Coretto. “Asymptotic Results for the Estimation of the Quadratic Score of a Clustering”. In: *Mathematics* 12.21 (2024). ISSN: 2227-7390. DOI: [10.3390/math12213417](https://doi.org/10.3390/math12213417).
- [4] Luca Coraggio and Pietro Coretto. “Selecting the number of clusters, clustering models, and algorithms. A unifying approach based on the quadratic discriminant score”. In: *Journal of Multivariate Analysis* 196.C (2023), p. 105181. ISSN: 0047-259X. DOI: [10.1016/j.jmva.2023.105181](https://doi.org/10.1016/j.jmva.2023.105181).
- [5] A. Silvestre et al. “Illicit drugs seizures in 2013-2018 and characteristics of the illicit market within the Neapolitan area”. In: *Forensic Science International* 321.technical (2021), p. 110738. ISSN: 0379-0738. DOI: [10.1016/j.forsciint.2021.110738](https://doi.org/10.1016/j.forsciint.2021.110738).

## Proceedings

- [6] Luca Coraggio, Antonio D’Ambrosio, and Boris Mirkin. “Analysis of the Mirkin’s Distance on Binary Relations for Clustering Stability”. In: *Statistics for Innovation I*. Ed. by Enrico di Bella et al. Cham: Springer Nature Switzerland, 2025, pp. 496–502. ISBN: 978-3-031-96735-1. DOI: [10.1007/978-3-031-96736-8\\_82](https://doi.org/10.1007/978-3-031-96736-8_82).
- [7] Luca Coraggio and Valeria Vitelli. “Stability Post-processing for Items Importance in Preference Learning via the Bayesian Mallows Model”. In: *Supervised and Unsupervised Statistical Data Analysis*. Ed. by Antonio D’Ambrosio et al. Studies in Classification, Data Analysis, and Knowledge Organization. Springer, 2025, pp. 95–106. DOI: [10.1007/978-3-032-03042-9](https://doi.org/10.1007/978-3-032-03042-9).
- [8] Giuseppe Gismondi, Luca Coraggio, and Antonio D’Ambrosio. “Tackling Noise in Ranking Models with the Boosting Paradigm”. In: *Statistics for Innovation III*. Ed. by Enrico di Bella et al. Cham: Springer Nature Switzerland, 2025, pp. 345–349. ISBN: 978-3-031-95995-0. DOI: [https://doi.org/10.1007/978-3-031-95995-0\\_57](https://doi.org/10.1007/978-3-031-95995-0_57).
- [9] Luca Coraggio and Pietro Coretto. “Empirical Analysis of the Quadratic Scoring for Selecting Clustering Solutions”. In: *BOOK OF ABSTRACTS AND SHORT PAPERS, 14th Scientific Meeting of the Classification and Data Analysis Group*. September 11-13, 2023. Pearson Education Resources. 2023, pp. 398–401. ISBN: 9788891935632.
- [10] Luca Coraggio and Pietro Coretto. “Quadratic discriminant scoring for selecting clustering solutions”. In: *Statistical Methods for Evaluation and Quality: Techniques, Technologies and Trends (T3)*. Ed. by Andrea Bucci, Alfredo Cartone Adelia Evangelista, and Andrea Marletta. Book of Short Papers: 11th Scientific Meeting of the SIS Group “Statistics for the Evaluation and Quality in Services”. Edizioni Il Vian-dante, 2023, p. 776. DOI: [10.60984/978-88-94593-36-5-IES2023](https://doi.org/10.60984/978-88-94593-36-5-IES2023).
- [11] Luca Coraggio and Pietro Coretto. “In-sample and cross-validated likelihood-type criteria for clustering selection”. en. In: *Book of Short Papers of the 5th international workshop on Models and Learning for Clustering and Classification*. Ed. by Salvatore Ingrassia, Antonio Punzo, and Roberto Rocci. Ledizioni, 2021. DOI: [10.5281/ZENODO.5598945](https://doi.org/10.5281/ZENODO.5598945).
- [12] Luca Coraggio and Pietro Coretto. “Likelihood-type methods for comparing clustering solutions”. In: *CLADAG 2019 - Book of Short Papers*. September 11-13. Uni-

versità di Cassino e del Lazio Meridionale. Centro Editoriale di Ateneo, 2019, pp. 120–123. ISBN: 9788883171086.

## Software

- [13] Luca Coraggio and Pietro Coretto. *qcluster: Clustering via Quadratic Scoring*. The R Foundation, 2024. doi: [10.32614/cran.package.qcluster](https://doi.org/10.32614/cran.package.qcluster).
- [14] Luca Coraggio, Pietro Coretto, and Angela Serra. *RSC: Robust and Sparse Correlation Matrix*. The R Foundation, 2020. doi: [10.32614/cran.package.rsc](https://doi.org/10.32614/cran.package.rsc).

## PhD Thesis

- [15] Luca Coraggio. “Machine Learning Methods and Applications in Economics”. PhD thesis. Università degli Studi di Napoli Federico II, 2020. eprint: <http://www.fedoa.unina.it/id/eprint/12984>.

## TALKS

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### Invited

- [1] Luca Coraggio. “Analysis of the Mirkin’s Distance on Binary Relations for Clustering Stability”. Invited talk at Italian Statistical Society meeting: SIS - Statistics for Innovation. Session: Innovative developments in clustering and classification for complex data structures. University of Genoa, Genoa (IT), June 16–18, 2025. 2025.
- [2] Luca Coraggio. “Stability Post-Processing for Items Importance in Preference Learning via the Bayesian Mallows”. Invited talk at CLADAG 2025, 15th Scientific Meeting of the Classification and Data Analysis Group, Napoli (IT), September 08-10, 2025. 2025.
- [3] Luca Coraggio. “Selecting the Number of Clusters, Clustering Models, and Algorithms. A Unifying Approach Based on the Quadratic Discriminant Score”. Invited talk at European Conference on Data Analysis (ECDA), Invited session: Advances in Robust Methodologies, University of Gdansk, Sopot (PL), September 9–11, 2024. 2024.
- [4] Luca Coraggio. “Quadratic discriminant scoring for selecting clustering solutions”. Invited talk at IES2023, 11th Scientific Meeting of the SIS Group, Pescara (IT), August 30–September 1, 2023. 2023.
- [5] Luca Coraggio. “Selecting the Number of Clusters, Clustering Models, and Algorithms. A Unifying Approach Based on the Quadratic Discriminant Score”. Invited talk at youngF2stat, University of Naples Federico II, Italy, October 19, 2023. 2023.
- [6] Luca Coraggio. “Selecting clustering algorithms and solutions via quadratic scoring”. Invited talk at 14th International Conference of the ERCIM WG on Computational and Methodological Statistics and 15th International Conference on Computational and Financial Econometrics, (hybrid-online) London (UK), December 18, 2021. 2021.
- [7] Luca Coraggio. “Likelihood-type methods for comparing clustering solutions”. Invited talk at CLADAG 2019, 12th Scientific Meeting of the Classification and Data Analysis Group, Cassino (IT), September 11-13, 2019. 2019.

## Other

- [8] Luca Coraggio. “Empirical Analysis of the Quadratic Scoring for Selecting Clustering Solutions”. Talk at CLADAG 2023, 14th Scientific Meeting of the Classification and Data Analysis Group, Salerno (IT), September 11–13, 2023. 2023.
- [9] Luca Coraggio. “JAQ of All Trades: Job Mismatch and Firm Productivity”. Talk at Economics of Firms & Labor 2023, LMU Munich, Munich (DE) June 30–July 2, 2023. 2023.
- [10] Luca Coraggio. “JAQ of All Trades: Job Mismatch and Firm Productivity”. Talk at EEA-ESEM Congress, Bocconi University of Milan, Milan (IT), August 22–26, 2022. 2022.
- [11] Luca Coraggio. “JAQ of All Trades: Job Mismatch and Firm Productivity”. Talk at World Finance Conference, University of Turin, Turin (IT), August 1–3, 2022. 2022.
- [12] Luca Coraggio. “JAQ of all trades - Job Mismatch and Firm Productivity”. Talk at European Winter Meeting - Econometric Society (EWMES), Macroeconomics session, (virtual), December 14, 2021. 2021.
- [13] Luca Coraggio. “In-sample and cross-validated likelihood-type criteria for clustering selection”. Talk at MBC2 Workshop on Models and Learning for Clustering and Classification, Dipartimento di Economia e Impresa Università di Catania, Catania (IT), September 4, 2020. 2020.

## TEACHING

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### Courses

1. MOOC course [Tools for Data Analysis](#), hosted on [Federica Web Learning](#). Part of the [Labor, Development & Policy evaluation program](#)
2. Data and Coding Lab (PhD), Department of Economics and Statistics, University of Naples Federico II, Naples (IT).  
**AY: 23/24, 24/25, 25/26**
3. Preference Learning (Graduate). Department of Economics and Statistics, University of Naples Federico II, Naples (IT).  
**AY: 25/26**
4. Laboratorio di Python (Bachelor). Department of Economics and Statistics, University of Naples Federico II, Naples (IT).  
**AY: 21/22, 22/23, 24/25, 25/26**

### Teaching Assistant

1. Data Mining (Graduate). Dept. of Economics and Statistics, University of Naples Federico II, Naples (IT). Prof Cristina D’Avino, Prof Rosaria Romano.  
**AY: 24/25**
2. Computational Statistics (Graduate). Dept. of Economics and Statistics, University of Naples Federico II, Naples (IT). Prof Antonio D’Ambrosio.  
**AY: 23/24**
3. Fiancial Econometrics (MSc). School of Management, University College London (UCL), London (UK). Prof Toru Kitagawa and Prof Rui Silva.

**AY: 20/21**

4. Time Series Analysis and Forecasting (MSc). School of Management, University College London (UCL), London (UK). Prof Saleem Bahaj and Prof Andrea Carriero.  
**AY: 20/21**
5. Econometrics (Graduate, Master in Economics and Finance). Dept. of Economics and Statistics, University of Naples Federico II, Naples (IT). Prof Pietro Coretto.  
**AY: 17/18, 18/19, 19/20, 24/25**
6. Market Microstructure (Graduate, Master in Economics and Finance). Dept. of Economics and Statistics, University of Naples Federico II, Naples (IT). Prof Marco Pagano.  
**AY: 17/18, 18/19, 19/20, 20/21, 21/22**
7. Advanced Macroeconomics (Graduate, Master in Economics and Finance). Dept. of Economics and Statistics, University of Naples Federico II, Naples (IT).  
**AY: 19/20, 20/21, 21/22, 22/23**
8. Macroeconomics (Bachelor). Dept. of Economics and Statistics, University of Naples Federico II, Naples (IT). Prof Tullio Jappelli and Prof Saverio Simonelli.  
**AY: 20/21, 21/22, 22/23**

## AWARDS & FUNDING

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2025	Best Student/Young Researcher Award ([7]). 15 <sup>th</sup> Scientific Meeting of the Classification and Data Analysis Group (CLADAG) and 1 <sup>st</sup> Joint Meeting of the Italian and Dutch/Flemish Classification Societies. Naples, 8–10 September 2025
2024	CSEF award for excellent publications for the paper [4]
2017--2020	Scholarship - PhD in Economics, University of Naples Federico II, Naples (IT)
2017	Winning group of internal competition in data analysis by Summer School on Clustering and Classification (University of Bologna, Bologna (IT), CLADAG, SIS)
2015--2016	Best Academic Performance, during the second year of M.A. in Economics and Finance, University of Naples Federico II, Naples (IT)
2015	Selected for the SMI (Scuola Matematica Interuniversitaria) Summer School, University of Perugia, Perugia (IT). Selection is based on merits and grants fully funded program
2014--2015	Best Academic Performance, during the first year of M.A. in Economics and Finance, University of Naples Federico II, Naples (IT)

## SKILLS

<b>Languages</b>	<b>Italian</b>	Mother tongue (C2)
	<b>English</b>	Full professional proficiency (C2)
<b>Coding</b>	<b>Programming</b>	C Fortran (2018 Std.) Matlab Python Posix Shell PowerShell R STATA
	<b>Markup</b>	LaTeX HTML Markdown
<b>OS</b>		OpenBSD Linux Windows
<b>Other</b>	<b>Audio/Video</b>	OBS Blender Gimp Inkscape
	<b>Versioning</b>	Git
	<b>Office</b>	LibreOffice MS Office
	<b>Other</b>	Unix core utilities CSS Amazon AWS

## ADDITIONAL EDUCATION & CERTIFICATIONS

2025/09 (24)	Workshop “Il potere della narrazione didattica universitaria innovativa”. Project PRO3, University of Naples Federico II, Naples (IT)
2024/09 (2--6)	PrefStat 1 <sup>st</sup> edition. PREFERence STATistics, Summer School in Advanced Statistical Learning for Preference, Ranking, and Ordinal Data. University of Cagliari, Calasetta (IT)
2024/08 (28--30)	MBC2 - Workshop on Model and Learning in Clustering and Classification. Dipartimento di Economia e Impresa, Università di Catania, Catania (IT)
2022/07 (11--15)	Textual analysis and Machine Learning with Applications to Economics and Finance. Società Italiana di Econometria (Side). University of Perugia, Perugia (IT)
2022/05 (2--5)	Robust Statistics: Foundations and Recent Developments. III International School on Classification and Data Analysis under the auspices of CLADAG, SIS. Como (IT)
2021 (6/28--7/2)	Genoa Summer School on Causal Machine Learning. University of Genoa, Genoa (IT)
2021	SQL for Data Science. UC Davis, via Coursera
2020/09	MBC2 - Workshop on Model and Learning in Clustering and Classification. Dipartimento di Economia e Impresa, University of Catania, Catania (IT)
2020	Version Control with Git. Atlassian, via Coursera
2019/09 (2--6)	Machine Learning Tools for Economists. CEMFI Summer School, Madrid (ES)
2019/08 (26--30)	Machine Learning in Credit Markets. CEMFI Summer School Madrid (ES)
2019/07 (1--6)	Advanced Panel Econometrics: Theory and Application. Postgraduate Course in Econometrics. Italian Econometric Society. Bertinoro (IT)

- 2019/01  
(20--27) Neural Networks and Deep Learning; Improving Deep Neural Networks: Hyperparameters tuning, Regularization and Optimization; Structuring Machine Learning Projects. Deeplearning.ai specialization via Coursera
- 2018/09  
(5--7) MBC2 - Workshop on Model-Based Clustering and Classification. Dipartimento di Economia e Impresa, University of Catania, Catania (IT)
- 2018/07  
(2--6) Barcelona Graduate School of Economics: Summer School in Bayesian Machine Learning and Social Sciences. Barcelona (ES)
- 2018/06  
(6--8) Workshop: Fortran Modernization for Scientific Applications. Department of Chemistry C, University of Zurich, Zurich (CH)
- 2017/05  
(22--26) Summer School on Clustering and Classification. University of Bologna, Department of Statistical Sciences. CLADAG, SIS. Bologna (IT)
- 2017/03  
(27--31) Software Engineering and Parallel Programming in Modern Fortran. Cranfield University, Cranfield (UK)
- 2017/02  
(7--20) Programming with Python for Data Science. By Microsoft on edX
- 2016/11  
(17--27) Introduction to Python for Data Science. By Microsoft on edX
- 2016/06  
(6--17) Machine Learning by Stanford University on Coursera
- 2016/01  
(21-22) International Workshop, SMART Stochastic Models And Related Topics, Department of Mathematics, University of Salerno, Salerno (IT)
- 2015/07  
(27--28) Summer School, SMI Interuniversity Mathematics Summer School, Perugia (IT). Courses: Mathematical Statistics, Functional Analysis