

# CHRISTIAN CAPEZZA

Assistant Professor (Fixed-term) of Statistics  
Department of Industrial Engineering, University of Naples Federico II  
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## EXPERIENCE

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### Assistant Professor (Fixed-term, RTDa)

*Dec 2021 - Present*

University of Naples Federico II, Department of Industrial Engineering

Working on statistical process monitoring, functional data analysis, active learning, teaching MSc-level courses.



### Postdoctoral Researcher

*Nov 2020 - Nov 2021*

University of Naples Federico II, Department of Industrial Engineering

Conducted research on interpretable statistical methods for the analysis of complex systems in industry 4.0.



### Postgraduate Researcher

*May 2020 - Sep 2020*

University of Naples Federico II, Department of Industrial Engineering

Conducted research on functional data analysis for realtime statistical monitoring of multivariate profiles.

## VISITING

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### Short-Term Scholar

*Mar 2025 - Apr 2025*

Georgia Tech, H. Milton Stewart School of Industrial & Systems Engineering

Conducted research on active learning for process monitoring, with prof. Kamran Paynabar.



### Visiting Postgraduate Research Student

*May 2019 - Sep 2019*

University of Bristol, School of Mathematics

Conducted research on model stacking using generalized additive models, with dr. Matteo Fasiolo and prof. Simon N. Wood.



### Visiting PhD Scholar

*Sep 2017 - July 20218*

University of Padova, Department of Statistics

Attended one-year courses of the PhD program in Statistics.



### Visiting Graduate Research Student

*Sep 2013 - Oct 2013*

Technical University of Denmark, Department of Civil and Mechanical Engineering

Conducted research on surface metrology, with prof. Leonardo De Chiffre.

## EDUCATION

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### PhD In Industrial Engineering

Feb 2017 - Apr 2020

University of Naples Federico II, Department of Industrial Engineering  
Statistical Methods for Industrial Process Monitoring Based on Functional Data Analysis.



### MSc in Engineering Management

Oct 2016

University of Naples Federico II, Department of Industrial Engineering  
Partial least-squares approach for ship fuel consumption monitoring and fault detection. Final grade: 110/110 cum laude.



### BSc in Engineering Management for Logistics and Production

Mar 2013

University of Naples Federico II, Department of Industrial Engineering  
Final grade: 107/110.

## PUBLICATIONS

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### UNDER REVIEW

- Capezza, C., Lepore, A., Paynabar, K. (2024+) "Stream-Based Active Learning for Process Monitoring", <https://arxiv.org/abs/2411.12563>.
- Capezza, C., Centofanti, F., Forcina, D., Lepore, A., Palumbo, B. (2024+) "Functional Mixture Regression Control Chart", <https://arxiv.org/abs/2410.20138>.

### PUBLICATIONS ON REFERRED JOURNALS

- Capezza, C., Capizzi, G., Centofanti, F., Lepore, A., Palumbo, B. (2025) "An Adaptive Multivariate Functional EWMA Control Chart", *Journal of Quality Technology*, 57(1):1–15, doi:[10.1080/00224065.2024.2383674](https://doi.org/10.1080/00224065.2024.2383674).
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2024) "Robust Multivariate Functional Control Chart", *Technometrics*, 66(4):531–547, doi:[10.1080/00401706.2024.2327346](https://doi.org/10.1080/00401706.2024.2327346).
- Capezza, C., Centofanti, F., Lepore, A., Menafoglio, A., Palumbo, B., Vantini, S. (2023) "funcharts: Control charts for multivariate functional data in R", *Journal of Quality Technology*, 55(5):566–583, doi:[10.1080/00224065.2023.2219012](https://doi.org/10.1080/00224065.2023.2219012).
- Capezza, C., Centofanti, F., Lepore, A., Menafoglio, A., Palumbo, B., Vantini, S. (2022) "Functional regression control chart for monitoring ship CO<sub>2</sub> emissions". *Quality and Reliability Engineering International*, 38(3):1519–1537, doi:[10.1002/qre.2949](https://doi.org/10.1002/qre.2949).
- Capezza, C., Palumbo, B., Goude Y., Wood, S.N., Fasiolo, M. (2021) "Additive Stacking for Disaggregate Electricity Demand Forecasting". *The Annals of Applied Statistics*, 15(2):727–746, doi:[10.1214/20-AOAS1417](https://doi.org/10.1214/20-AOAS1417).
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2021) "Functional clustering methods for resistance spot welding process data in the automotive industry". *Applied Stochastic Models in Business and Industry*, 37(5):908–925, doi:[10.1002/asmb.2648](https://doi.org/10.1002/asmb.2648).
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2021) "A Functional Data Analysis Approach for the Monitoring of Ship CO<sub>2</sub> Emissions". *Gestão & Produção*, 28(3), doi:[10.1590/1806-9649-2021v28e152](https://doi.org/10.1590/1806-9649-2021v28e152).

- Capezza, C., Lepore, A., Menafoglio, A., Palumbo, B., Vantini, S. (2020) “Control charts for monitoring ship operating conditions and CO<sub>2</sub> emissions based on scalar-on-function regression”. *Applied Stochastic Models in Business and Industry*, 36(3):477–500, doi:[10.1002/asmb.2507](https://doi.org/10.1002/asmb.2507)
- Reis, M. S., Rendall, R., Palumbo, B., Lepore, A., Capezza, C. (2020) “Predicting ships’ CO<sub>2</sub> emissions using feature-oriented methods”. *Applied Stochastic Models in Business and Industry*, 36(1):110–123, doi:[10.1002/asmb.2477](https://doi.org/10.1002/asmb.2477)
- Capezza C., Coleman S., Lepore A., Palumbo B., Vitiello L. (2019) “Ship fuel consumption monitoring and fault detection via partial least squares and control charts of navigation data.” *Transportation Research Part D: Transport and Environment*, 67:375–387 doi:[10.1016/j.trd.2018.11.009](https://doi.org/10.1016/j.trd.2018.11.009)
- Lepore, A., Palumbo, B., Capezza, C. (2019) “Orthogonal LS-PLS approach to ship fuel-speed curves for supporting decisions based on operational data.” *Quality Engineering*, 31(3):386–400, doi:[10.1080/08982112.2018.1537445](https://doi.org/10.1080/08982112.2018.1537445)
- Lepore, A., Palumbo, B., Capezza, C. (2018) “Analysis of profiles for monitoring of modern ship performance via partial least-squares methods.” *Quality and Reliability Engineering International*, 34:1424–1436, doi:[10.1002/qre.2336](https://doi.org/10.1002/qre.2336)
- Lepore, A., Reis, M.S., Palumbo, B., Rendall, R., Capezza, C. (2017) “A comparison of advanced regression techniques for predicting ship CO<sub>2</sub> emissions.” *Quality and Reliability Engineering International*, 33:1281–1292, doi:[10.1002/qre.2171](https://doi.org/10.1002/qre.2171)

## CHAPTERS IN BOOKS

- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B., (2023) “Robust Statistical Monitoring of a Resistance Spot Welding Process”. *Wiley StatsRef: Statistics Reference Online*, doi:[10.1002/9781118445112.stat08467](https://doi.org/10.1002/9781118445112.stat08467).
- Capezza, C., Centofanti, F., Lepore, A., Menafoglio, A., Palumbo, B., Vantini, S. (2024), “Statistical process monitoring methods based on functional data analysis.” In: Gaw, N., Pardalos, P.M., Gahrooei M.R. (eds.) *Multimodal and Tensor Data Analytics for Industrial Systems Improvement*, 211:41–55. Springer, Cham. ISBN 9783031530913, doi:[10.1007/978-3-031-53092-0\\_4](https://doi.org/10.1007/978-3-031-53092-0_4).
- Capezza, C., Centofanti, F., Lepore, A., Menafoglio, A., Palumbo, B., Vantini, S. (2023) “Functional Regression Control Charts with an Application to Ship Fuel Consumption Monitoring”. *Wiley StatsRef: Statistics Reference Online*, doi:[10.1002/9781118445112.stat08371](https://doi.org/10.1002/9781118445112.stat08371).
- Lepore, A., Palumbo, B., Capezza, C. (2018) “An empirical approach to monitoring CO<sub>2</sub> emissions via Partial Least-Squares regression.” Perna, C., Pratesi, M., Ruiz-Gazen, A. (Eds.), *Studies in Theoretical and Applied Statistics*, Springer, ISBN 9783319739069.

## PAPERS IN CONFERENCE PROCEEDINGS (PRESENTER UNDERLINED)

- Capezza, C., Forcina, D., Lepore, A., Palumbo, B. (2025) “Real-Time Covariance Monitoring for Multichannel Profiles”. *Proceedings of the Conference of the Italian Statistical Society*, Genova, Italy, 16–18 June. ISBN:
- Capezza, C., Forcina, D., Lepore, A., Palumbo, B. (2025) “Monitoring the Covariance of Multichannel Profiles”. In *Proceedings of the International Workshop on Functional and Operatorial Statistics*, Novara, Italy, 25–27 June. ISBN:
- Capezza, C., Centofanti, F., Forcina, D., Lepore, A., Palumbo, B. (2025) “A Mixture Regression Framework for Profile Monitoring”. In *Proceedings of the Third Conference of the Statistics and Data Science Group of the Italian Statistical Society*, Milano, 2–3 April.

- Capezza, C., Capezza, C., Capizzi, G., Centofanti, F., Lepore, A., Palumbo, B. (2024). “An EWMA Control Chart for Multivariate Functional Data”. In A. Pollice & P. Mariani (Eds.), *Methodological and Applied Statistics and Demography III*, pp. 328-333. Springer. ISBN: 978-3-031-64430-6. doi:[10.1007/978-3-031-64431-3](https://doi.org/10.1007/978-3-031-64431-3)
- Tascione, A. M., Di Costanzo, L., Forcina, D., Pariota, L., Capezza, C., Simonelli, F. (2024) “Correlation of OD Matrix and Traffic Volume with Functional Data Analysis: A Simulation-Based Case Study in the City of Portici,” *Proceedings of the 2024 IEEE International Conference on Environment and Electrical Engineering and 2024 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)*, Rome, Italy, 17–20 June, doi:[10.1109/EEEIC/ICPSEurope61470.2024.10751310](https://doi.org/10.1109/EEEIC/ICPSEurope61470.2024.10751310)
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2023) “Robust Statistical Process Monitoring of Multivariate Functional Data”. *Proceedings of the Conference of the Italian Statistical Society*, Ancona, Italy, 21–23 June, ISBN: 9788891935618AAVV
- Capezza, C., Centofanti, F., Lepore, A., Menafooglio A., Palumbo, B., Vantini, S. (2022) “An R package for the statistical process monitoring of functional data”. *Proceedings of the Conference of the Italian Statistical Society*, Caserta, Italy, 22–24 June, ISBN: 9788891932310
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2022) “Interpretability in functional clustering with an application to resistance spot welding process in the automotive industry”. *Proceedings of the Conference of the Italian Statistical Society*, Caserta, Italy, 22–24 June, ISBN: 9788891932310
- Capezza, C., Palumbo B., Goude Y., Wood S.N., Fasiolo M. (2021) “Forecasting electricity demand of individual customers via additive stacking.” (contributed paper). *Proceedings of the Conference of the Italian Statistical Society*, Pisa, Italy, 21–25 June, ISBN: 9788891927361
- Capezza, C. (2020) “Statistical process monitoring of multivariate profiles from ship operating conditions.” (**invited** paper) *Proceedings of the Conference of the Italian Statistical Society*, Pisa, Italy, 22–24 June, ISBN: 9788891910776
- Capezza, C., Lepore, A., Menafooglio, A., Palumbo, B., Vantini, S. (2019) “Functional control charts for monitoring ship operating conditions and CO<sub>2</sub> emissions based on scalar-on-function linear model.” (contributed paper) *Proceedings of the conference “Smart Statistics for Smart Applications” of the Italian Statistical Society*, Milano, Italy, 18–21 June, ISBN: 9788891915108
- Lepore, A., Palumbo, B., Capezza, C. (2017) “Monitoring ship performance via multi-way partial least-squares analysis of functional data.” (contributed paper) *Proceedings of the Conference of the Italian Statistical Society “Statistics and Data Science: new challenges, new generations”*, Florence, Italy, 28–30 June, ISBN: 9788864535210
- Reis, M.S., Palumbo, B., Lepore, A., Rendall, R., Capezza, C. (2017) “On the use of predictive methods for ship fuel consumption analysis from massive on-board operational data.” (contributed paper) *Proceedings of the Conference of the Italian Statistical Society “Statistics and Data Science: new challenges, new generations”*, Florence, Italy, 28–30 June, ISBN: 9788864535210

#### **ABSTRACTS IN CONFERENCE PROCEEDINGS (PRESENTER UNDERLINED)**

- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2025) “Robust Multivariate Functional Control Chart.” (**invited** at the Technometrics session) *Proceedings of the 2025 Quality and Productivity Research Conference*, Seattle, WA, 15–18 June.
- Capezza, C. (2024) “A tutorial on control charts for multivariate functional data with the funcharts R package”. *ENBIS online webinar*, 12 July.
- Capezza, C., Forcina, D., Lepore, A., Longobardi, M., Palumbo, B., Pariota, L., Simonelli, F. (2024) “Statistical Analysis of Traffic Flow Profiles through Functional Graphical Models”. *Proceedings of the 24th annual conference of the European Network for Business and Industrial Statistics (ENBIS)*, Leuven, Belgium, 15–19 September.

- Capezza, C., Capizzi, G., Centofanti, F., Lepore, A., Palumbo, B. (2024) "An Adaptive EWMA Monitoring Scheme for Multivariate Functional Data." *Proceedings of the 24th Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Leuven, Belgium, 15–19 September.
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2024) "Robust Statistical Process Monitoring of Multivariate Profiles." (**invited**) *Proceedings of the 7th International Conference on Econometrics and Statistics (EcoSta 2024)*, Beijing, China, 17–19 July, ISBN: 978-9925-7812-3-2.
- Capezza, C., Capizzi, G., Centofanti, F., Lepore, A., Palumbo, B. (2024) "A Novel Multivariate Functional EWMA Control Chart for Profile Monitoring". *Proceedings of the 2nd INFORMS Conference on Quality, Statistics, and Reliability*, Como, Italy, July 1–4.
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2024) "A Robust Statistical Process Monitoring Framework for Multivariate Functional Quality Characteristics." *Proceedings of the 2nd INFORMS Conference on Quality, Statistics, and Reliability*, Como, Italy, July 1–4.
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2024) "An outlier-resistant multivariate profile monitoring framework for a spot welding process in the automotive industry." *Proceedings of the Joint Research Conference 2024*, Waterloo, Canada, 17–20 June.
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2024) "A Robust Multivariate Profile Monitoring Framework." *Proceedings of the ENBIS Spring Meeting*, Dortmund, Germany, 15–16 May.
- Capezza, C. (2024) "L’impatto dei metodi statistici per dati funzionali in ambito Industria 4.0." (**invited**) *Statistica e Data Science per il Business*, Padova, Italy, 3 May.
- Capezza, C., Centofanti, F., Forcina, D., Lepore, A., Palumbo, B. (2023) "Control charts for functional data based on functional mixture regression." (**invited**) *Proceedings of the 16th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2023)*, Berlin, Germany, 16–18 December, ISBN: 978-9925-7812-7-0
- Capezza, C. (2023) "Advancements in Statistical Process Monitoring of Multivariate Functional Data in Industry 4.0." (**invited**) *StaTalk 2023*, Rome, 15 September 2023.
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2023) "Monitoring Resistance Spot Welding Profiles via Robust Control Charts." *Proceedings of the 23rd Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Valencia, Spain, 10–14 September, ISBN: 978-84-125444-9-7
- Capezza, C., Centofanti, F., Forcina, D., Lepore, A., Palumbo, B. (2023) "Resistance Spot Welding Process Monitoring Through Mixture Function-on-scalar Regression Analysis." *Proceedings of the 23rd Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Valencia, Spain, 10–14 September, ISBN: 978-84-125444-9-7
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2022) "Robust Control Charts for Multivariate Functional Data." (**invited**) *Proceedings of the 15th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2022)*, London, UK, 17–19 December, ISBN: 978-9925-7812-6-3
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2022) "Robust Multivariate Functional Control Charts." *Proceedings of the INFORMS 2nd Workshop on Quality, Statistics & Reliability*, Indianapolis, IN, USA, 15–19 October.
- Capezza, C., Palumbo, B., Goude Y., Wood, S.N., Fasiolo, M. (2022) "Probabilistic forecasting of electricity demand via additive stacking." (**invited**) *Proceedings of ISBIS Conference 2022 on Statistics and Data Science in Business and Industry*, University of Naples Federico II, Naples, Italy, 20–21 June, ISBN: 979-12-210-1389-4
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2022) "Functional clustering techniques applied to Resistance Spot Welding curves in the Automotive Industry 4.0." *Proceedings of ISBIS Conference 2022 on Statistics and Data Science in Business and Industry*, University of Naples Federico II, Naples, Italy, 20–21 June, ISBN: 979-12-210-1389-4

- Capezza, C., Centofanti, F., Lepore, A., Menafoglio A., Palumbo, B., Vantini, S. (2022) "Statistical process control of multivariate functional data in R." *Proceedings of the 22nd Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Trondheim, Norway, 26–30 June, ISBN: 978-82-303-5470-4
- Capezza, C., Centofanti, F., Lepore, A., Menafoglio A., Palumbo, B., Vantini, S. (2021) "funcharts: An R package for the real-time monitoring of multivariate functional data." (**invited**) *Proceedings of the 15th International Conference on Computational and Financial Econometrics (CFE 2019) and 14th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics (CMStatistics 2019)*, London, UK, 18–20 December, ISBN: 978-9925-7812-5-6
- Fasiolo, M., Capezza, C., Goude Y., Palumbo, B., Wood, S.N. (2021) "Generalized additive models for ensemble electricity demand forecasting." *Proceedings of the European Network for Business and Industrial Statistics (ENBIS)-21 Online Conference*, 13–15 September, ISBN: 979-12-20093-98-9
- Capezza, C., Centofanti, F., Lepore, A., Palumbo, B. (2021) "Analysis of resistance of spot welding process data in the automotive industry via functional clustering techniques." *Proceedings of the European Network for Business and Industrial Statistics (ENBIS)-21 Online Conference*, 13–15 September, ISBN: 979-12-20093-98-9
- Capezza, C., Palumbo, B., Goude Y., Wood, S.N., Fasiolo, M. (2021) "Probabilistic expert aggregation via additive stacking." (**invited**) *JDS 2021 : 52èmes Journées de Statistique de la Société Française de Statistique (SFdS)*, Nice, France, 7–11 June
- Capezza, C., Lepore, A., Menafoglio A., Palumbo, B., Vantini, S. (2019) "Functional control charts based on scalar-on-function linear model." (**invited**) *Proceedings of the 13th International Conference on Computational and Financial Econometrics (CFE 2019) and 12th International Conference of the ERCIM (European Research Consortium for Informatics and Mathematics) Working Group on Computational and Methodological Statistics (CMStatistics 2019)*, London, UK, 14–16 December, ISBN: 978-9963-2227-8-0
- Bocchetti, D., Capezza, C., Coleman, S., Lepore, A., Palumbo, B., Reis, M.S., Rendall, R., Vitiello, L. (2019) "Statistical Engineering Challenges from Big Data in Shipping Industry." *Proceedings of the 19th Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Budapest, Hungary, 2–4 September, ISBN: 78-963-489-146-8
- Bocchetti, D., Capezza, C., Lepore, A., Palumbo, B., Rendall, R., Reis, M.S. (2018) "Predicting CO<sub>2</sub> Emissions from Maritime Transport with Feature-Oriented Methods." *Proceedings of the 18th Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Nancy, France, 2–6 September, ISBN: 78-961-240-340-9
- Capezza, C., Lepore, A., Menafoglio A., Palumbo, B., Vantini, S. (2018) "Monitoring ship CO<sub>2</sub> emissions from operating conditions via functional control charts and scalar-on-functional linear models" *Joint Meeting of SIS SDS Group and itENBIS*, Torino, Italy, 24–25 May
- Bocchetti, D., Lepore, A., Palumbo, B., Capezza, C., Centofanti, F. (2017) "Normalized Ship Fuel-Speed Curve for Monitoring CO<sub>2</sub> Emissions by Multi-Sensor System Data." *Proceedings of the 17th Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Naples, Italy, 9–14 September, ISBN: 9789612403225
- Bocchetti, D., Capezza, C., Centofanti, F., Lepore, A., Di Matteo, R., Palumbo, B., Vitiello, L. (2017) "A Statistical Framework for Monitoring, Reporting and Verification of CO<sub>2</sub> Emissions in the Maritime Transport" *Proceedings of the 17th Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Naples, Italy, 9–14 September, ISBN: 9789612403225
- D'Ambra, A., Lepore, A., Palumbo, B., Vitiello, L., Capezza, C. (2016) "Case studies on PLS-based procedure for ship fuel consumption monitoring and fault detection" *Proceedings of the 16th Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Sheffield, UK, 11–15 September, ISBN: 9789612403072
- Palumbo, B., Erto, P., Lepore, A., Vitiello, L., Capezza, C., Bocchetti, D., D'Ambra, A., Antonelli, B. (2016) "Ship fuel consumption control and engineering approach to fault-detection." *Proceedings of the 48th Meeting of the Italian Statistical Society*, Salerno, Italy, 8–10 June, ISBN: 9788861970618

## SOFTWARE

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R packages:

- CRAN packages: [funcharts](#) (creator), [mgcViz](#) (contributor)
- GitHub packages: [gamfactory](#) (author)

## AWARDS

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- 21 Feb 2025:* Awarded the Prize for Environmental Impact at [MICSATHLON](#) for outstanding contributions to sustainable innovation and industrial excellence.
- 1 Feb 2023:* Obtained the National Scientific Qualification (Abilitazione Scientifica Nazionale) for Associate Professor.
- May 2000:* 3rd place in the [Kangourou Mathematics Competition](#) at the school level during middle school. Category: Benjamin (11-12 years old)

## PEER-REVIEWING ACTIVITY

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Reviewer for the following international journals:

Technometrics • Journal of Quality Technology • Journal of the Royal Statistical Society: Series C (Applied Statistics) • INFORMS Journal on Data Science • Statistics and Computing • IEEE Transactions on Neural Networks and Learning Systems • Statistical Methods and Applications • Quality and Reliability Engineering International • Statistica Applicata - Italian Journal of Applied Statistics • Engineering Applications of Artificial Intelligence • Mathematics • Environmetrics

## TEACHING

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MSc Degree Courses:

- **Statistical Process Monitoring for Industrial Process Monitoring**, 6 CFU, 48 hours  
MSc in Mathematical Engineering and MSc in Data Science, University of Naples Federico II  
Academic years 2023/24, 2024/25.
- **Statistical Models for Marine Technology Innovation**, 9 hours  
Sustainable Ship and Shipping (SEAS) 4.0 Erasmus Mundus Joint Master Degree, University of A Coruña  
Academic years 2021/22, 2022/23 (online), 2023/24, 2024/25.

PhD Courses:

- **Statistical Process Monitoring of Complex Engineering Data**, 8 hours  
PhD in Industrial Engineering, University of Naples Federico II, 2022
- **Statistical Process Monitoring of High-Dimensional Engineering Data**, 12 hours  
PhD in Industrial Engineering, University of Naples Federico II, 2025

## ORGANIZATION OF EVENTS

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Organising committee:

- CLADAG 2025 Local Organising Committee, *15-th Scientific Meeting Classification and Data Analysis Group*, University of Naples Federico II, Italy, 8-10 September 2025, Naples, Italy.
- ISSPM 2025 Local Organising Committee, *International Symposium on Statistical Process Monitoring (IS-SPM) 2025*, University of Naples Federico II, Italy, 7-11 July 2025, Naples, Italy.



- ISBIS 2022 Local Organising Committee, *International Society for Business and Industrial Statistics (ISBIS) CONFERENCE 2022 on “Statistics and Data Science in Business and Industry”*, University of Naples Federico II, Italy, 20-21 June 2022, Naples, Italy
- ENBIS-21 Online Organizing Committee, *Online Conference of the European Network for Business and Industrial Statistics (ENBIS)*, 13–15 September 2021, ISBN: 979-12-20093-98-9.
- ENBIS-17 Organizing Committee, *17th Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Naples, Italy, 9–14 September, ISBN: 9789612403225

Organization of conference sessions:

- Young Statisticians Inviting Session, *Proceedings of the 23rd Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Valencia, Spain, 10–14 September, ISBN:
- “Statistical Process Monitoring for Complex Data in Industry 4.0” Session promoted by Young-SIS. *Conference of the Italian Statistical Society SIS 2023*, Ancona, Italy, 21–23 June, ISBN: 9788891935618AAVV
- Software Session, *Proceedings of the 22nd Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Trondheim, Norway, 26–30 June, ISBN: 978-82-303-5470-4
- Young Statisticians Inviting Session, *Proceedings of the 22nd Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Trondheim, Norway, 26–30 June, ISBN: 978-82-303-5470-4
- Software Session, *Online Conference of the European Network for Business and Industrial Statistics (ENBIS)*, 13–15 September 2021, ISBN: 979-12-20093-98-9

Chair at conference sessions:

- Space-time statistics Session, *Proceedings of the Conference of the Italian Statistical Society*, Ancona, Italy, 21–23 June, ISBN:
- Software Session, *Proceedings of the 22nd Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Trondheim, Norway, 26–30 June, ISBN: 978-82-303-5470-4
- Young Statisticians Inviting Session, *Proceedings of the 22nd Annual Conference of the European Network for Business and Industrial Statistics (ENBIS)*, Trondheim, Norway, 26–30 June, ISBN: 978-82-303-5470-4
- Enterprises and Sectors Session, *International Society for Business and Industrial Statistics (ISBIS) CONFERENCE 2022 on “Statistics and Data Science in Business and Industry”*, University of Naples Federico II, Italy, 20-21 June 2022, Naples, Italy
- Software Session, *Online Conference of the European Network for Business and Industrial Statistics (ENBIS)*, 13–15 September 2021, ISBN: 979-12-20093-98-9.

## PARTICIPATION TO ORGANIZATIONS

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- Communication Officer of the European Network for Business and Industrial Statistics (ENBIS), 2023-today.
- Leader of the Young Statisticians Special Interest Group (SIG) of ENBIS, 2022-2023.
- Member of the board of [Young-SIS](#), the Italian group of SIS, the Italian Statistical Society, 2020-2021, also secretary only during 2021.
- Member of the board of Young Statisticians Europe and [YoungStatS](#), 2020-2021.
- Member of [Young-SIS](#), the Italian group of SIS, the Italian Statistical Society, 2018-2022.
- Member of [ENBIS](#) (European Network for Business and Industrial Statistics), 2017-today.
- Member of [SIS](#) (the Italian Statistical Society), 2016-today.
- Member of the Quality, Statistics and Reliability (QSR) section of INFORMS, 2022-today.