CARLO CAVICCHIA

PERSONAL DATA

⊠ cavicchia@ese.eur.nl

Personal Page \diamond Institutional Page \diamond Google Scholar \diamond ORCiD \diamond Research Gate

CURRENT POSITION

Assistant Professor of Statistics

May 2020 - Present

Econometric Institute, Erasmus School of Economics, Erasmus Rotterdam University, Rotterdam

EDUCATION

Dutch University Teaching Qualification UTQ-BKO

January 2022 - June 2022

Risbo, Erasmus University Rotterdam, Rotterdam

Ph.D. in Statistics

November 2016 - February 2020

Department of Statistical Sciences, University of Rome La Sapienza, Rome

Thesis title: Hierarchical latent variable models for dimensionality reduction: an application on composite indicators; Supervisor: Prof. M. Vichi

MSc Degree in Statistics and Decision Science

November 2013 - January 2016

University of Rome La Sapienza, Rome

110/110 with honors

BSc Degree in Statistics

November 2009 - July 2013

University of Rome La Sapienza, Rome

105/110

QUALIFICATIONS

National Qualification for Associate Professor (Italy, ASN II fascia), Statistics (SC 13/D1)

RESEARCH AND TEACHING INTERESTS

Hierarchical Models Non-parametric Statistics Data Science

Latent Variable Models Composite Indicators Unsupervised Classification

RESEARCH EXPERIENCES

Research visit

November 2019 - December 2019

Econometric Institute, Erasmus School of Economics, Erasmus Rotterdam University, Rotterdam

Supervisor: Prof. P.J.F. Groenen

Research fellowship

May 2019 - April 2020

Department of Law and Economics, University of Rome UnitelmaSapienza, Rome

Supervisor: Prof. P. Sarnacchiaro

Researcher on a project March 2016 - November 2018

Department of Statistical Sciences, University of Rome La Sapienza, Rome

Title: Development of a procedure to detect and manage outliers for big data

Supervisor: Prof. M. Vichi and ENEA

Researcher on a project

March 2016 - January 2017

Department of Statistical Sciences, University of Rome La Sapienza, Rome

Title: Construction of a hierarchical non-negative and disjoint composite indicator for a set of quanti-

tative variables

Supervisor: Prof. M. Vichi

AWARDS AND GRANTS

ESE Starter grant (300000.- e)

September 2023

Erasmus School of Economics, Erasmus Rotterdam University, Rotterdam

Research Grant for Junior Researchers (1270.- e)

August 2017

University of Rome La Sapienza, Rome

Best report of Stats under the stars³

June 2017

Italian Statistical Society (SIS)

Ph.D. scholarship (3 years)

August 2016

University of Rome La Sapienza, Rome

FEATURED PUBLICATIONS

Velden, M. van de, A. Iodice D'Enza, A. Markos, and C. Cavicchia: A general framework for implementing distances for categorical variables. In: Pattern Recognition 153 (2024), p. 110547. DOI: https://doi.org/10.1016/j.patcog.2024.110547.

Cavicchia, C., M. Vichi, and G. Zaccaria: Parsimonious Ultrametric Gaussian Mixture Models. In: Statistics and Computing 34 (2024), p. 108. DOI: 10.1007/s11222-024-10405-9.

Cavicchia, C. and P. Sarnacchiaro: A new hierarchical composite indicator model for ranking the top 20 European football teams. In: Quality and Quantity (2024). DOI: 10.1007/s11135-024-01842-9.

Cavicchia, C., P. Sarnacchiaro, M. Vichi, and G. Zaccaria: A model-based ultrametric composite indicator for studying waste management in Italian municipalities. In: Computational Statistics 39.1 (2024), pp. 21–50. DOI: 10.1007/s00180-023-01333-9.

Cavicchia, C., M. Vichi, and G. Zaccaria: *Hierarchical Disjoint Principal Component Analysis*. In: *Advances in Statistical Analysis* 107.3 (2023), pp. 537–574. DOI: 10.1007/s10182-022-00458-4.

Vichi, M., C. Cavicchia, and P.J.F. Groenen: *Hierarchical Means Clustering*. In: *Journal of Classification* 39.3 (2022), pp. 553–577. DOI: 10.1007/s00357-022-09419-7.

Cavicchia, C., M. Vichi, and G. Zaccaria: Gaussian Mixture Model with an extended ultrametric covariance structure. In: Advances in Data Analysis and Classification 16.2 (2022), pp. 399–427. DOI: 10.1007/s11634-021-00488-x.

Cavicchia, C. and M. Vichi: Second-order disjoint factor analysis. In: Psychometrika 87.1 (2022), pp. 289–309. DOI: 10.1007/s11336-021-09799-6.

Cavicchia, C. and P. Sarnacchiaro: A multi-group higher-order factor analysis for studying the gender-effect in teacher job satisfaction. In: METRON 80.1 (2022), pp. 23–38. DOI: 10.1007/s40300-021-00204-x.

Cavicchia, C. and P. Sarnacchiaro: The effect of a new e-tivity on students' performance and satisfaction in an online course. In: Statistica Applicata - Italian Journal of Applied Statistics 33.2 (2021), pp. 163–175. DOI: 10.26398/IJAS.0033-009.

Cavicchia, C., P. Sarnacchiaro, and M. Vichi: A composite indicator for the waste management in the EU via hierarchical disjoint non-negative factor analysis. In: Socio-Economic Planning Sciences 73 (2021), p. 100832. DOI: 10.1016/j.seps.2020.100832.

Cavicchia, C. and M. Vichi: Statistical model-based composite indicators for tracking coherent policy conclusions. In: Social Indicators Research 156.2 (2021), pp. 449–479. DOI: 10.1007/s11205-020-02318-7.

Cavicchia, C., M. Vichi, and G. Zaccaria: The ultrametric correlation matrix for modelling hierarchical latent concepts. In: Advances in Data Analysis and Classification 14.4 (2020), pp. 837–853. DOI: 10.1007/s11634-020-00400-z.

INVITED TALKS AND SEMINARS

IFCS 2024 - 18th Conference of the IFCS San José, Italy SIS 2024 - 52nd Scientific meeting of the Italian Statistical Society Bari, Italy Seminar "Convex clustering of mixed numerical and categorical data" April 2023 DIETH Department - Federico II University of Naples Workshop on "Statistical Computing and Robust Inference for High Dimensional Data" Taipei, Taiwan ISI 2023 - 64th International Statistical Institute World Statistics Congress Ottawa, Canada DSSV-ECDA 2023 - Joint conference of Data Science, Statistics & Visualisation and the European Conference on Data Analysis Antwerp, Belgium SIS 2023 - Statistical Learning, Sustainability and Impact Evaluation Ancona, Italy Seminar "Convex clustering of mixed numerical and categorical data" Statistical Sciences Department - Sapienza University (Virtual) CMStatistics 2022 - 15th International Conference of the ERCIM WG on Computational and Methodological Statistics London, UK (Virtual) IFCS 2022 - 17th Conference of the IFCS Condon, UK (Virtual) IFCS 2022 - 17th Conference of the IFCS Porto, Portugal EcoSta 2022 - 5th International Conference on Econometrics and Statistics Nyoto, Japan (Virtual) Seminar series "Introduction to Statistics" February 2022 Hospitality Management - Federico II University of Naples (Virtual) CLADAG 2021 - 13 th Scientific Meeting of Classification and Data Analysis Group Florence, Italy (Virtual) SIS 2021 - 63rd International Statistical Institute World Statistics Congress "Statistics and Data Science for a Better World" Virtual conference EconJobMarket Rotterdam, Nethenlands ASA 2019 Scientific Conference on Statistics for Healt and Well-Being Prescia, Italy CLADAG 2019 - 12th Scientific Meeting of Classification and Data Analysis Group Cassino, Italy SIS 2018 - 49th Scientific Meeting of Classification and Data Analysis Group Cassino, Italy SIS 2018 - 49th Scientific Meeting of Classification and Data Analysis Group Cassino, Italy SIS 2018 - 49th Scientific Meeting of Classification and Data Cassino, Italy SIS 2018 - 49th Scientif			
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Seminar series "Introduction to Statistics" Hospitality Management - Federico II University of Naples (Virtual) CLADAG 2021 - 13 th Scientific Meeting of Classification and Data Analysis Group Florence, Italy (Virtual) ISI 2021 - 63 rd International Statistical Institute World Statistics Congress "Statistics and Data Science for a Better World" Virtual conference EconJobMarket Rotterdam, Netherlands ASA 2019 Scientific Conference on Statistics for Healt and Well-Being Brescia, Italy CLADAG 2019 - 12th Scientific Meeting of Classification and Data Analysis Group Cassino, Italy SIS 2018 - 49th Scientific meeting of the Italian Statistical Society Palermo, Italy Workshop on "Selection and Synthesis of Indicators for Sustainable Development Goals: Methodologies and Applications" October 2017 Rome, Italy		June	2022
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Analysis Group Florence, Italy (Virtual) ISI 2021 - 63 rd International Statistical Institute World Statistics Congress "Statistics and Data Science for a Better World" Virtual conference EconJobMarket Rotterdam, Netherlands ASA 2019 Scientific Conference on Statistics for Healt and Well-Being Brescia, Italy CLADAG 2019 - 12th Scientific Meeting of Classification and Data Analysis Group Cassino, Italy SIS 2018 - 49th Scientific meeting of the Italian Statistical Society Palermo, Italy Workshop on "Selection and Synthesis of Indicators for Sustainable Development Goals: Methodologies and Applications" Rome, Italy			
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Sustainable Development Goals: Methodologies and Applications" October 2017 Rome, Italy	Palermo, Italy		
Rome, Italy	Workshop on "Selection and Synthesis of Indicators for		
	Sustainable Development Goals: Methodologies and Applications"	October	2017
IDEDITION	Rome, Italy		
	JDEDI HOLON		

SUPERVISION

MSc theses (2) 2021 - Present

Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam MSc Econometrics and Management Science, Econometrics

MSc theses (12) Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam MSc Econometrics and Management Science, Business Analytics and Quantitative Marketing MSc theses (14) 2021 - Present Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam MSc Economics and Business, Data Science and Marketing Analytics 2020 - Present BSc theses (28) Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam BSc Econometrics and Operational Research TEACHING AS COORDINATOR OR LECTURER Applied Statistics 2 2022 - Present Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam BSc Economics and Business Economics Toegepaste Statistiek 2 2022 - Present Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam BSc Economics and Business Economics Seminar Case Studies in Business Analytics and Quantitative Marketing 2022 - Present Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam MSc Econometrics and Management Science, Business Analytics and Quantitative Marketing Seminar in Business Analytics and Quantitative Marketing 2021 Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam BSc Econometrics and Operational Research Seminar Data Science for Marketing Analytics 2020 - 2022 Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam MSc Economics and Business, Data Science and Marketing Analytics **Statistics** 2019 School of Economics, Tor Vergata University of Rome, Rome Master of Science in European Economy and Business Law ACADEMIC AND EDITORIAL SERVICES Member of the scientific programme committee of CLADAG-VOC 2025 2025 2025 Member of the scientific programme committee of IES 2025 Article Editor for Sage Open 2024 - Present 2023-2025 IASC data analysis competition officer Member of the committee of IASC data analysis competition 2023 Organizer of an invited session of CLADAG 2023 2023 Member of the scientific programme committee of CLADAG 2023 2023 Member of the scientific programme committee of IES 2023 2023 Organizer of an invited session of SIS 2023 2023 Responsible for the "Sustainability" topic within SVQS 2022 - Present Organizer of an invited session of CMStatistics 2022 2022 Co-organizer for the Econometrics internal seminars at Econometric 2022 - Present Institute, Erasmus University Rotterdam Organizer of an invited session of ECDA 2022 2022 Member of the scientific programme committee of HackTheGene 2022 Co-guest-editor of the special issue "Advances in statistical modelling, methods and applications" in METRON 2022 Member of the committee of the prize "Premio TStat Training" 2022 Co-editor of "Book of Short Papers of SIS 2022" 2022

2021 - Present

2022

National coordinator of y-SIS

Member of the scientific programme committee of SIS 2022	2022		
Member of the scientific programme committee of IES 2022	2022		
Member of the national board of y-SIS	021 - 2022		
Member of the organizing committee of DSSV-ECDA 2021	2021		
Member of the organizing committee of DSSV 2020	2020		
Member of the admission committee of II level master: "Quantitative			
methods and models for decision support", University of Rome UnitelmaSapien	za 2020		
Organizer of an invited session of SIS 2020	2020		
Reviewer for a number of scientific journals in Statistics 2018	3 - Present		
- in alphabetic order - Advances in Data Analysis and Classification; Annals of Operations Re-			
search; Behaviormetrika; BMC Psychology; Computational Statistics; Computational Statistics and			
Data Analysis; Journal of Classification; Journal of Computational Social Science; Journal of Data			
Science, Statistics and Visualisation; Journal of Infrastructure, Policy and Development; Journal of			
Statistical Computation and Simulation; Journal of the Royal Statistical Society Series B; METRON;			
Operational Research; PLOS ONE; SAGE Open; SN Business & Economics; SoftwareX; Statistical			

MEMBERSHIPS

Erasmus Research Institute of Management (ERIM - Associate member)	2023
Vereniging voor Ordinatie en Classificatie (VOC)	2022
International Association Statistical Computing (IASC)	2020
Statistica per la Valutazione e la Qualità nei Servizi (SVQS)	2019
Classification and Data Analysis Group (CLADAG)	2019
young SIS (y-SIS)	2016
Società Italiana di Statistica - Italian Statistical Society (SIS)	2016

Methods and Applications; Socio-Economic Planning Sciences; Statistica

WORK EXPERIENCES

Consultant as Lead Statistician

October - December 2019

Project: Survey in Zanzibar on community socio-economic conditions, ARS Progetti S.P.A., Rome

Consultant as Supervisor

July - October 2019

Project: Survey in Zanzibar on environmental cleanliness, public service perception and tourism competitiveness, NGO Fondazione ACRA, Rome

Consultant as Lead Statistician

June - August 2018

Project: Survey within the framework of the "Consultancy Services to support community engagement and awareness within the Urban Municipal Council", NGO Fondazione ACRA, Zanzibar, Tanzania

LANGUAGES

Italian Native language

English Speaking: C1 Writing: C2

EXTRA-CURRICULAR

- President and Co-Founder "ASD Valcanneto Futsal" (Cerveteri, 2018 2021)
- Attended the 1st International Summer School on Classification and Data Analysis (Rimini, 2017)
- Attended a Erasmus semester at University College of Dublin (Dublin, 2012)