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

Research Grant for Junior Researchers (1270.00e)

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

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 (2023). DOI: 10.1007/s00180-023-01333-9.

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: Hierarchical Disjoint Principal Component Analysis. In: Advances in Statistical Analysis (2022). DOI: 10.1007/s10182-022-00458-4.

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 gendereffect 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

Workshop on "Statistical Computing and Robust Inference

for High Dimensional Data"

December 2023

Taipei, Taiwan

ISI 2023 - 64th International Statistical Institute World Statistics Congress

July 2023

Ottawa, Canada

DSSV-ECDA 2023 - Joint conference of Data Science, Statistics & Visualisation and the European Conference on Data Analysis

July 2023

Antwerp, Belgium

SIS 2023 - Statistical Learning, Sustainability and Impact Evaluation	June 2023
Ancona, Italy	
Seminar "Convex clustering of mixed numerical and categorical data"	April 2023
Statistical Sciences Department - Sapienza University (Virtual)	•
CMStatistics 2022 - 15 th International Conference of the ERCIM WG	
on Computational and Methodological Statistics	$December\ 2022$
London, UK (Virtual)	
IFCS 2022 - 17 th Conference of the IFCS	July 2022
Porto, Portugal	
EcoSta 2022 - 5th International Conference on Econometrics and Statistic	ics June 2022
Kyoto, 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	September 2021
Florence, Italy (Virtual)	
ISI 2021 - 63 rd International Statistical Institute World Statistics Congre	
"Statistics and Data Science for a Better World"	July 2021
Virtual conference	D 1 0010
EconJobMarket Dettender Netherlande	December 2019
Rotterdam, Netherlands ASA 2019 Scientific Conference on Statistics for Healt and Well-Being	Contombon 2010
Brescia, Italy	September 2019
CLADAG 2019 - 12 th Scientific Meeting of Classification and Data	
Analysis Group	Contombon 0010
Allaivsis Gioup	
•	September 2019
Cassino, Italy	-
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Member of the admission committee of II level master: "Quantitative methods and models for decision support", University of Rome UnitelmaSapienza Organizer of an invited session of SIS 2020

Reviewer for a number of scientific journals in Statistics

2018 - Present

2020

2020

– in alphabetic order – Advances in Data Analysis and Classification; Annals of Operations Research; Behaviormetrika; BMC Psychology; Computational Statistics; Computational Statistics and Data Analysis; Journal of Classification; Journal of Data Science, Statistics and Visualisation; Journal of Statistical Computation and Simulation; METRON; Operational Research; PLOS ONE; SAGE Open; SN Business & Economics; Statistical Methods and Applications; Socio-Economic Planning Sciences

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

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)