CARLO CAVICCHIA

PERSONAL DATA

⊠ cavicchia@ese.eur.nl

♠ Personal Page ♦ Institutional Page ♦ Google Scholar ♦ ORCiD ♦ 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

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

August 2017

University of Rome La Sapienza, Rome

Best report of Stats under the stars³

June 2017

Italian Statistical Society (SIS)

University of Rome La Sapienza, Rome

FEATURED PUBLICATIONS

Vichi, M., C. Cavicchia, and P.J.F. Groenen: *Hierarchical Means Clustering*. In: *Journal of Classification* (2022). 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 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

ISI 2023 - 64th International Statistical Institute World Statistics Congress July 2023 Ottawa, Canada

CMS tatistics 2022 - $15^{\rm th}$ International Conference of the ERCIM WG on Computational and Methodological Statistics December 2022

London, UK (Virtual)

IFCS 2022 - 17th Conference of the IFCS

July 2022

Porto, Portugal

EcoSta 2022 - 5th International Conference on Econometrics and Statistics June 2022 Kyoto, Japan (Virtual)

Seminar series "Introduction to Statistics"

February 2022

Hospitality Management - Federico II University of Naples (Virtual)

ISI 2021 - $63^{\rm rd}$ International Statistical Institute World Statistics Congress "Statistics and Data Science for a Better World"

July 2021

Virtual conference

EconJobMarket December 2019

Rotterdam, Netherlands

ASA 2019 Scientific Conference on Statistics for Healt and Well-Being	September 2019
Brescia, Italy 12 th Scientific Meeting of Classification and Data Analysis Group Cassino, Italy	September 2019
49 th Scientific meeting of the Italian Statistical Society Palermo, Italy	June 2018
Workshop: Selection and Synthesis of Indicators for Sustainable Development Goals: Methodologies and Applications Rome, Italy	October 2017
SUPERVISION	
MSc theses – as second reader – (2)	2022 - Present
Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam	
MSc Econometrics and Management Science, Quantitative Finance	
MSc theses (2)	2021 - Present
Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam	
MSc Econometrics and Management Science, Econometrics	0001 D
MSc theses (5) Erasmus School of Economics Erasmus University Potterdom Potterdom	2021 - Present
Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam MSc Econometrics and Management Science, Business Analytics and Quantitative	Marketing
MSc theses (6)	2021 - Present
Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam	2021 - 1 1030111
MSc Economics and Business, Data Science and Marketing Analytics	
$\mathbf{MSc\ theses}$ – as second reader – (2)	2021 - Present
Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam	
MSc Econometrics and Management Science, Business Analytics and Quantitative MSc theses – as second reader – (5)	Marketing 2021 - Present
Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam	
MSc Economics and Business, Data Science and Marketing Analytics	
BSc theses (19)	2020 - Present
Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam	
BSc Econometrics and Operational Research	
BSc theses – as second reader – (19)	2020 - Present
Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam BSc Econometrics and Operational Research	
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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
Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam	Ml4:
MSc Econometrics and Management Science, Business Analytics and Quantitative Multivariate Statistics	=
Department of Law and Economics, University of Rome UnitelmaSapienza, Rome	2022
Department of Law and Leonomics, emiversity of frome emicanapienza, nome	

I level master: "Analysis and modelling of data and processes: methods and models"

Seminar in Business Analytics and Quantitative Marketing Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam	2021
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	
Statistical Methods for Composite Indicators Construction	2020 - 2021
Department of Law and Economics, University of Rome UnitelmaSapienza, Rome	
II level master: "Quantitative methods and models for decision support"	
R Lab - Statistics	2020 - 2021
Department of Law and Economics, University of Rome UnitelmaSapienza, Rome	
II level master: "Quantitative methods and models for decision support"	
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 2023	2023
Member of the scientific programme committee of IES 2023	2023
Organizer of an invited session of CMStatistics 2022	2022
Co-organizer for the Econometrics internal seminars at Econometric	
Institute, Erasmus University Rotterdam	2022 - Present
Organizer of an invited session of ECDA 2022	2022
Member of the scientific programme committee of HackTheGene 2022	2022
Co-guest-editor of a special issue of METRON	2022
Member of the committee of the prize "Premio TStat Training"	2022
Co-editor of "Book of Short Papers of SIS 2022"	2022
National coordinator of y-SIS	2022
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	2021 - 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 UnitelmaSa	pienza 2020
Organizer of an invited session of SIS 2020	2020
Reviewer for a number of scientific journals in Statistics	2018 - Present
- in alphabetic order - Advances in Data Analysis and Classification; Annals of Opera	tions Research;
BMC Psychology; Computational Statistics; Journal of Data Science, Statistics and	d Visualisation;
Journal of Statistical Computation and Simulation; METRON; PLOS ONE; SAGE Ope & Economics	en; SN Business

WORK EXPERIENCES

 ${\bf Consultant\ as\ Lead\ Statistician}$

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)