CARLO CAVICCHIA

PERSONAL DATA

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🏶 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 - (expected) 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 November 2009 - July 2013

BSc Degree in Statistics

University of Rome La Sapienza, Rome

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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

Cavicchia, C., M. Vichi, and G. Zaccaria: Gaussian Mixture Model with an extended ultrametric covariance structure. In: Advances in Data Analysis and Classification (2022). 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 2022 - $17^{\rm th}$ Conference of the International Federation of Classification Societies July 2022

Porto, Portugal

Invited Session

EcoSta 2022 - 5th International Conference on Econometrics and Statistics

June 2022

Virtual conference

Invited Session

Seminar series "Introduction to Statistics"

February 2022

Hospitality Management - Federico II University of Naples

Invited Seminar Series

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

July 2021

Virtual conference

Invited Session

EconJobMarket December 2019

Erasmus University Rotterdam - Econometric Institute, Rotterdam

Invited Seminar

ASA 2019 Scientific Conference on Statistics for Healt and Well-Being September 2019

University of Brescia, Brescia

Invited Session

12nd Scientific Meeting of Classification and Data Analysis Group September 2019 Folcara Campus of the University of Cassino and Southern Lazio, Cassino Invited Session 49th Scientific meeting of the Italian Statistical Society June 2018 University of Palermo, Palermo Invited Session Workshop: Selection and Synthesis of Indicators for Sustainable Development Goals: Methodologies and Applications October 2017 University of Rome La Sapienza, Rome Invited Session **TEACHING** Lecturer 2022 - Present Econometric Institute, Erasmus University Rotterdam, Rotterdam Seminar Case Studies in Business Analytics and Quantitative Marketing Lecturer 2022 - Present Department of Law and Economics, University of Rome UnitelmaSapienza, Rome Multivariate Statistics, I level master: "Analysis and modelling of data and processes: methods and models" Lecturer 2021 Econometric Institute, Erasmus University Rotterdam, Rotterdam Seminar in Business Analytics and Quantitative Marketing 2020 - Present Lecturer Econometric Institute, Erasmus University Rotterdam, Rotterdam Seminar Data Science for Marketing Analytics 2020 - 2021 Department of Law and Economics, University of Rome UnitelmaSapienza, Rome Statistical Methods for Composite Indicators Construction, II level master: "Quantitative methods and models for decision support" Lecturer 2020 - 2021 Department of Law and Economics, University of Rome UnitelmaSapienza, Rome R Lab - Statistics, II level master: "Quantitative methods and models for decision support" Teaching assistant 2020 Department of Business and Management, LUISS, Rome Statistics (Prof. M. Perone Pacifico) 2020 - 2022 Lecturer Department of Management and Law, Tor Vergata University of Rome, Rome Applied multivariate analysis with SAS 2019 - Present Subject Expert and Teaching Assistant Department of Law and Economics, University of Rome UnitelmaSapienza, Rome Statistics Teaching assistant 2019 - 2020 School of Economics, Tor Vergata University of Rome, Rome Statistics (Dr. M. Ranalli), Master of Science in Development Economics and International CooperationStudent Assistant 2019 - 2020

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

Statistics and maths

Lecturer	2019
School of Economics, Tor Vergata University of Rome, Rome	
Statistics, Master of Science in European Economy and Business Law	
Teaching assistant	2018 - 2020
Department of Medicine, University of Rome La Sapienza, Rome	
Statistics (Prof. M. Vichi)	
Teaching assistant	2017 - 2018
Department of Political Sciences, Roma Tre University of Rome, Rome	
Statistics (Prof. F. Lagona and Dr. M. Ranalli)	
Teaching assistant	2016 - 2020
Department of Statistical Sciences, University of Rome La Sapienza, Rome	
Advances in Data Analysis and Statistical Modelling (Prof. M. Vichi)	
Teaching assistant	2016 - 2020
Department of Statistical Sciences, University of Rome La Sapienza, Rome	
Multivariate Statistics (Prof. M. Vichi)	

ACADEMIC AND EDITORIAL SERVICES

Member of the scientific programme committee of CLADAG 2023	2023	
Organizer of an invited session of CMStatistics 2022	2022	
Organizer of an invited session of ECDA 2022	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 UnitelmaSapienza	2020	
Organizer of an invited session of SIS 2020	2020	
Reviewer for a number of scientific journals in Statistics:	2018 - Present	
Journal of Data Science, Statistics and Visualisation; PLOS ONE; Annals of Operations Research;		
Computational Statistics; METRON; SN Business & Economics; Journal of Statistical Computation		
and Simulation; Advances in Data Analysis and Classification		

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)