CARLO CAVICCHIA

PERSONAL DATA

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🌐 Institutional Page ⋄ Personal Page ⋄ Google Scholar ⋄ Research Gate ⋄ ORCiD

CURRENT POSITION

Assistant Professor of Statistics *May 2020 - Present*
Econometric Institute, Erasmus School of Economics, Erasmus Rotterdam University, Rotterdam

EDUCATION

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

Multivariate Statistics	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 quantitative variables*
Supervisor: Prof. M. Vichi

GRANTS AND AWARDS

Research Grant for Junior Researcher *August 2017*
University of Rome La Sapienza, Rome
Best report of Stats under the stars[3] *June 2017*
Italian Statistical Society (SIS)

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 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. and M. Vichi: *Second-order disjoint factor analysis.* In: *Psychometrika* (2021). 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* (2021). DOI: 10.1007/s40300-021-00204-x.

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

Seminar series "Introduction to Statistics" *February 2022*
Hospitality Management - Federico II University of Naples
Invited Seminar Series

ISI 2021 - 63rd 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	
Lecturer	*2021 - Present*
Department of Management and Law, Tor Vergata University of Rome, Rome	
Applied multivariate analysis with SAS	
Lecturer	*2020 - Present*
Econometric Institute, Erasmus University Rotterdam, Rotterdam	
Seminar Data Science for Marketing Analytics	
Lecturer	*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)	
Teaching assistant	*2020*
Department of Management and Law, Tor Vergata University of Rome, Rome	
SAS Lab - Business Statistics (Prof. S. Borra)	
Subject Expert and Teaching Assistant	*2019 - Present*
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 Cooperation*	
Student 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

Organizer of an invited session of ECDA 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 local organizing committee of DSSV-ECDA 2021 *2021*
Member of the national board of y-SIS *2021 - Present*
Member of the local 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)

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