

CARLO CAVICCHIA

PERSONAL DATA

Date and Place of Birth 26 February 1990, Rome

Nationality Italian

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CURRENT POSITION

Erasmus Rotterdam University, Rotterdam

May 2020 - Present

Assistant Professor of Statistics

Econometric Institute, Erasmus School of Economics

EDUCATION

University of Rome La Sapienza, Rome

November 2016 - February 2020

Ph.D. *Methodological Statistics - Scuola di Scienze Statistiche*

Department of Statistical Sciences

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

University of Rome La Sapienza, Rome

November 2013 - January 2016

Master of Science Degree in Statistics and Decision Science

Final score: 110/110 cum laude

University of Rome La Sapienza, Rome

November 2009 - July 2013

Bachelor's Degree in Statistics

Final score: 105/110

RESEARCH AND TEACHING INTERESTS

Multivariate Statistics

Non-parametric Statistics

Data Science

Latent Variable Models

Composite Indicators

Unsupervised Classification

GRANTS

University of Rome La Sapienza, Rome

August 2017

Research Grant for Junior Researcher, Avvio alla ricerca

Stats under the stars³, Florence

June 2017

Award in Italian Statistical Society (SIS) competition, Best report

RESEARCH EXPERIENCES

University of Rome UnitelmaSapienza, Rome

May 2019 – April 2020

Research fellowship

Department of Law and Economics

Supervisor: Prof. P. Sarnacchiaro

University of Rome La Sapienza, Rome

March 2016 – November 2018

Researcher on the project: *Development of a procedure to detect and manage outliers for big data*

Department of Statistical Sciences

Supervisor: Prof. M. Vichi and ENEA

University of Rome La Sapienza, Rome

March 2016 – January 2017

Researcher on the project: *Construction of a hierarchical non-negative and disjoint composite indicator for a set of quantitative variables*

Department of Statistical Sciences

Supervisor: Prof. M. Vichi

RESEARCH VISITS

Erasmus Rotterdam University, Rotterdam

November 15 – December 17, 2019

Econometric Institute, Erasmus School of Economics

Supervisor: Prof. P.J.F. Groenen

FEATURED PUBLICATIONS

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](https://doi.org/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](https://doi.org/10.1016/j.seps.2020.100832).

Cavicchia, C. and M. Vichi: *Second-order disjoint factor analysis*. In: *Psychometrika* (2021).

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](https://doi.org/10.1007/s11205-020-02318-7).

Cavicchia, C., M. Vichi, and G. Zaccaria: “Exploring hierarchical concepts: theoretical and application comparisons”. In: *Advanced studies in behaviormetrics and data science: essays in honor of Akinori Okada*. Ed. by T. Imaizumi, A. Nakayama, and S. Yokoyama. Singapore: Springer Singapore, 2020, pp. 315–328. ISBN: 978-981-15-2700-5. DOI: [10.1007/978-981-15-2700-5_19](https://doi.org/10.1007/978-981-15-2700-5_19).

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](https://doi.org/10.1007/s11634-020-00400-z).

INVITED TALKS AND SEMINARS

ISI 2021 - 63rd International Statistical Institute World Statistics Congress "Statistics and Data Science for a Better World" *July 2021*

Erasmus University Rotterdam - Econometric Institute

Invited Session

EconJobMarket

December 2019

Erasmus University Rotterdam - Econometric Institute, Rotterdam

Invited Seminar

ASA 2019 Scientific Conference on Statistics for Health 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

TEACHING

Erasmus University Rotterdam, Rotterdam Econometric Institute Lecturer Seminar in Business Analytics and Quantitative Marketing	<i>2021 - Present</i>
Università degli studi Roma Tor Vergata, Rome Department of Management and Law Lecturer Applied multivariate analysis with SAS	<i>2021</i>
Erasmus University Rotterdam, Rotterdam Econometric Institute Lecturer Seminar Data Science for Marketing Analytics	<i>2020 - Present</i>
University of Rome UnitelmaSapienza, Rome Department of Law and Economics Lecturer Statistical Methods for Composite Indicators Construction, <i>II level master: "Quantitative methods and models for decision support"</i>	<i>2020 - 2021</i>
University of Rome UnitelmaSapienza, Rome Department of Law and Economics Lecturer R Lab - Statistics, <i>II level master: "Quantitative methods and models for decision support"</i>	<i>2020 - 2021</i>
Libera Università Internazionale degli Studi Sociali, Rome Department of Business and Management Teaching assistant for Prof. M. Perone Pacifico Statistics	<i>2020</i>
Università degli studi Roma Tor Vergata, Rome Department of Management and Law Teaching assistant for Prof. S. Borra SAS Lab - Business Statistics	<i>2020</i>
University of Rome UnitelmaSapienza, Rome Department of Law and Economics Subject Expert and Teaching Assistant ("Cultore della Materia") Statistics	<i>2019 - Present</i>
Università degli studi Roma Tor Vergata, Rome School of Economics Teaching assistant for Dr. M. Ranalli Statistics, <i>Master of Science in Development Economics and International Cooperation</i>	<i>2019 - 2020</i>
University of Rome UnitelmaSapienza, Rome Department of Law and Economics Student Tutor Statistics and maths	<i>2019 - 2020</i>
Università degli studi Roma Tor Vergata, Rome School of Economics Lecturer Statistics, <i>Master of Science in European Economy and Business Law</i>	<i>2019</i>

University of Rome La Sapienza, Rome Department of Medicine Teaching assistant for Prof. M. Vichi Statistics	<i>2018 - 2020</i>
Università degli studi Roma Tre, Rome Department of Political Sciences Teaching assistant for Prof. F. Lagona and Dr. M. Ranalli Statistics	<i>2017 - 2018</i>
University of Rome La Sapienza, Rome Department of Statistical Science Teaching assistant for Prof. M. Vichi Advances in Data Analysis and Statistical Modelling	<i>2016 - 2020</i>
University of Rome La Sapienza, Rome Department of Statistical Science Teaching assistant for Prof. M. Vichi Multivariate Statistics	<i>2016 - 2020</i>

ACADEMIC SERVICES

IES 2022: "Innovation and Society 5.0: Statistical and Economic Models and Techniques for Quality Assessment" Scientific Programme Committee Member	<i>2022</i>
DSSV-ECDA 2021: "Data Science Statistics and Visualisation and European Conference on Data Analysis" Local Organizing Committee Member	<i>2021</i>
y-SIS: The young group of the Italian Statistical Society National Board Member	<i>2021 - Present</i>
DSSV 2020: "Data Science, Statistics and Visualisation" Organizing Committee Member	<i>2020</i>
II level master: "Quantitative methods and models for decision support" Admission Committee Member (<i>University of Rome UnitelmaSapienza</i>)	<i>2020</i>
50th edition of the Scientific Meeting of the Italian Statistical Society Session Organizer: <i>Factorial and dimensional reduction methods for the construction of indicators for evaluation</i>	<i>2020</i>

EDITORIAL SERVICES

Annals of Operations Research Reviewer	<i>2021 - Present</i>
Computational Statistics Reviewer	<i>2021 - Present</i>
METRON Reviewer	<i>2020 - Present</i>
SN Business & Economics Reviewer	<i>2020 - Present</i>
Journal of Statistical Computation and Simulation Reviewer	<i>2019 - Present</i>
Advances in Data Analysis and Classification Reviewer	<i>2018 - Present</i>

TECHNICAL STRENGTHS

Languages and Software Certifications

MATLAB, R, \LaTeX , MySQL, SAS, Java
SAS Certified Predictive Modeller Using SAS Enterprise Miner 13
(SAS Institute, 2016)

WORK EXPERIENCES

ARS Progetti S.P.A., Rome

October - December 2019

Consultant as Lead Statistician

Project: *Survey in Zanzibar on community socio-economic conditions*

NGO Fondazione ACRA, Rome

July - October 2019

Consultant as Supervisor

Project: *Survey in Zanzibar on environmental cleanliness, public service perception and tourism competitiveness*

NGO Fondazione ACRA, Zanzibar, Tanzania

June - August 2018

Consultant as Lead Statistician

Project: *Survey within the framework of the "Consultancy Services to support community engagement and awareness within the Urban Municipal Council"*

LANGUAGES

Italian

Native language

English

Speaking: C1 Writing: C2

EXTRA-CURRICULAR

President and Co-Founder "[ASD Valcanneto Futsal](#)" - the futsal club of Valcanneto village (Cerveteri, 2018 - 2021)

Attended the 1st International Summer School on Classification and Data Analysis at University of Bologna, Rimini Campus (Rimini, May 2017)

Attended a Erasmus semester at University College of Dublin (Dublin, January - May 2012)

In compliance with the GDPR and Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned Decree.