

Curriculum Vitae
Carla Ferrara

Part I – General Information

Full Name	Carla Ferrara
Place of Birth	Rome
Citizenship	Italian
Spoken Languages	English, French

Part II – Education

Type	Year	Institution	Notes
Researcher	2019	National Institute of Health, ISS, Rome (Italy)	
Post-Doctoral position	2018-2019	Italian Institute for Environmental Protection and Research, ISPRA, Rome (Italy)	
Autumn course in official statistics	2017	Department of Statistical Sciences, Sapienza University of Rome, Rome (Italy)	The course held by Walter Radermacher
Multivariate Statistical Analysis with SAS	2017	Department of Statistical Sciences, Sapienza University of Rome, Rome (Italy)	The course held by E. D’Arcangelo and SAS Institute
Post-Doctoral position	2016	Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome (Italy)	Section Health Statistics
English Certificate	2016	British center recognized by MIUR	B2 Level
PhD	2015	Department of Statistical Sciences, Sapienza University of Rome, Rome (Italy)	PhD in “Methodological Statistics”. Thesis title: “Advances in Structural Equation Modelling”
Summer School	2014	Department of Economics and management, University of Pisa, Pisa (Italy)	“Poverty and social exclusion in three dimensions: multidimensional, longitudinal and small area estimation”

"The best ways to learn from data"	2013	Department of Statistical Sciences, Sapienza University of Rome, Rome (Italy)	The course held by Andrew Gelman
International Scientific Workshop	2012	Department of Statistical Sciences, University of Bologna, Bologna (Italy)	"Structural Equation Modeling and Latent Variable Models"
PhD scholarship winner	2011	Department of Statistical Sciences, Sapienza University of Rome, Rome (Italy)	PhD student in "Methodological Statistics"
University graduation	2011	Statistics for Corporate Strategy - Faculty of Information Engineering, Informatics, and Statistics - Sapienza University of Rome, Rome (Italy)	GPA: 110/110 summa cum laude. Supervisor: Prof. M. Vichi. Thesis title: "Multivariate statistical methods for the measurement of the different dimensions of well-being"
University graduation	2009	Statistics for Business Management - Faculty of Statistics - Sapienza University of Rome, Rome (Italy)	Supervisor: Prof. M. Vichi. Thesis title: "Methodologies for the construction of composite indicators"
Introduction to SAS	2009	Department of Statistics, Probability and Applied Statistics, Sapienza University of Rome, Rome (Italy)	The course held by E. D'Arcangelo
Course on Statistical Software: Introduction to R	2008	Department of Statistics, Probability and Applied Statistics, Sapienza University of Rome, Rome (Italy)	The course held by L. Tardella
Statistical Analysis with SAS	2002	Department of Statistics, Probability and Applied Statistics, Sapienza University of Rome, Rome (Italy)	The course held by E. D'Arcangelo

Part III – Teaching experience

Year	Institution	Lecture/Course
2018-2019	Faculty of Medicine and Dentistry, Sapienza Università di Roma, Rome (Italy)	Lecturer at the Course "Nursing based on efficacy trials- Medical statistics" CFU 1
2018-2019	Faculty of Medicine and Dentistry, Sapienza Università di Roma, Rome (Italy)	Lecturer at the Course "principles of dentistry- Medical statistics" CFU 1

2018-2019	Faculty of Medicine and Psychology, Sapienza Università di Roma, Rome (Italy)	Lecturer at the Course "Nursing based on efficacy trials- Medical statistics" CFU 2
2018-2019	LUISS Guido Carli University, Rome (Italy)	Academic Tutor (Statistics)
2018-2019	LUISS Guido Carli University, Rome (Italy)	Academic Gym (Statistics)
2015-2019	Faculty of Pharmacy and Medicine, Sapienza University of Rome, Rome (Italy)	Lecturer at the Advanced Training Course "Planning and analysis of clinical, observational and experimental trials"
2016-2017	Faculty of Pharmacy and Medicine, Sapienza University of Rome, Rome (Italy)	Lecturer at the Master courses of "Management for coordination in nursing, midwifery, rehabilitation and technical health" Latina
2015-2017	Faculty of Pharmacy and Medicine, Sapienza University of Rome, Rome (Italy)	Lecturer at the Master courses of "Management for coordination in nursing, midwifery, rehabilitation and technical health" Rome
2016-2017	Faculty of Pharmacy and Medicine, Sapienza University of Rome, Rome (Italy)	Collaboration for the course of "Medical and Scientific Methodology" (prof. Vestri)
2016-2017	Faculty of Pharmacy and Medicine, Sapienza University of Rome, Rome (Italy)	Collaboration for the course of "Medical statistics" (prof. Nofroni)
2015-2017	Faculty of Pharmacy and Medicine, Sapienza University of Rome, Rome (Italy)	Lecturer at the Specialization course of "Health Statistics and Biometrics"
2012-2016	Department of Statistical Sciences, Sapienza University of Rome, Rome (Italy)	Collaboration for the course of "Advanced Statistical Methodology" (prof. Vichi)
2011-2016	Department of Statistical Sciences, Sapienza University of Rome, Rome (Italy)	Collaboration for the course of "Multivariate statistics" (prof. Vichi)
2011-2017	Faculty of Medicine and Dentistry, Sapienza Università di Roma, Rome (Italy)	Didactic Activity to the integrate course "Medical statistics"

Part IV - Society memberships, Awards and Honors

Year	Title
Since 2012	Member of SIS (Italian Statistical Society)

Part V - Funding Information [grants as PI-principal investigators or I-investigator]

2012	PRIN 2010	Title: Multivariate models for risk assessment (I)
2014	Research University Projects	Title: Models of analysis and classification of asymmetric proximity data in exploratory and confirmatory optics (I)
2016	Research University Projects	Title: "Caratterizzazione del profilo psico-sociologico degli studenti immatricolati ai corsi di laurea in medicina e chirurgia presso "Sapienza" Università di Roma" (I)
2018	Horizon 2020	Title: Consumer Driven Production: Integrating Innovative Approaches for Competitive and Sustainable Performance across the Mediterranean Aquaculture Value Chain (I)

Part VI – Other Informations

Contract of collaboration for the project "Statistiche per ogni Comune" of the Italian Statistic Society 2010-2013

Member of the Local Organizing Committee, 1st Conference of European Statistics Stakeholders, Rome (Italy), 24–25 November, 2014.

Visiting researcher at ESSEC Business School, Paris, France (3 month), 01/04/2013 - 30/06/2013.

Post-Doctoral position, Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome (Italy), 2015-2016.

Contract of collaboration (Co.Co.Co) Department of Public Health and Infectious Diseases, Sapienza University of Rome, Rome (Italy), 01/02/2017-31/01/2018.

Expert in the field of Multivariate Statistics.

Expert in the field of Medical-scientific Methodology.

Academic Tutor (Statistics) LUISS Guido Carli University, 2018-2019

Part VII – Attended National and International conferences

1. "Italian Statistics Day ", Rome (Italy), October, 2011.
2. "Making decisions: the role of statistics for knowledge and governance", Rome (Italy), 19th-20th April, 2012.

3. "46th Scientific Meeting on the Italian Statistical Society", Rome (Italy), 20-22 June, 2012.
4. "SIS 2013, Advances in Latent Variables – Methods, Models and Applications", Brescia (Italy), 19–21 June, 2013.
5. "PLS 2014 8th International Conference on Partial Least Squares and Related Methods", Paris (France), 26-28 May, 2014.
6. "SIS 2014, 47th Scientific Meeting of Italian Statistical Society", Cagliari (Italy), 11–13 June, 2014.
7. "IYSM 2014 - International Young Statistician Meeting Y-SIS", Cagliari (Italy), 13–14 June, 2014.
8. "1st Conference of European Statistics Stakeholders", Rome (Italy), 24–25 November, 2014.
9. "VIII National Conference – Orizzonti 2020 per la biostatistica e l'epidemiologia clinica: sfide e opportunità nell'era dei Big Data" "SISMEC 2015", Turin (Italy), 16-19 September, 2015.
10. "Workshop Selection and Synthesis of Indicators for Sustainable Development Goals: Methodologies and applications", Roma 13 October 2017.
11. "New perspectives and priorities for EU 2030 indicators", Rome (Italy), 8 June 2018
12. "49th Scientific Meeting of the Italian Statistical Society", Palermo (Italy), 20-22 June 2018
13. "13 National Statistical Conference", Rome (Italy), 4-6 July 2018

Part VIII – Oral presentation at National and International conferences

1. Making decisions: the role of statistics for knowledge and governance, Rome (Italy), 19th-20th April, 2012. **Speaker**
2. 46th Scientific Meeting on the Italian Statistical Society, Rome (Italy), 20-22 June, 2012. **Speaker**
3. "PLS 2014 8th International Conference on Partial Least Squares and Related Methods", Paris (France), 26-28 May, 2014. **Invited Speaker**
4. VIII National Conference – "Orizzonti 2020 per la biostatistica e l'epidemiologia clinica: sfide e opportunità nell'era dei Big Data" "SISMEC 2015", Turin (Italy), 16-19 September, 2015. **Poster**
5. M. C. Meroni, E. Visani, **C. Ferrara**, G. Nicolò "*Stili di funzionamento familiare ad esperienza critica: valutazione di una popolazione degente presso un Servizio Psichiatrico Diagnosi e Cura*" Società Italiana di Psicoterapia - SIPSIC Terzo Convegno La Psicoterapia in Evoluzione Disagi Emozionali e regolazione degli Affetti in Tempo di Crisi (October 2015, Rome). **Speaker**
6. M.C. Meroni, **C. Ferrara**, "*La violenza nei diversi servizi psichiatrici*", La gestione della violenza nei confronti degli operatori del dipartimento di salute mentale (June 2016, Colleferro). **Speaker**

Part IX– Research Interests

I am mainly interested in the development of new methodologies to analyze relationships between latent variables. In particular, I have recently worked on:

1. Structural Equation Modelling (SEM);
2. Simultaneous clustering and dimensionality reduction;
3. Construction of composite indicators;
4. Application on well-being;
5. Applied research.

Part X– Computer Skills

Operating Systems: All WINDOWS versions, Mac OS

Programming languages: Fortran, Visual basic, Prolog, Pascal, SAS, SQL.

Microsoft Applications: Excel, Word, Power Point, Access (in particular SQL language), LaTeX.

Browser WEB: Internet Explorer, MozillaFirefox, Google Chrome, Safari, Opera.

eMail management: Outlook Express, Microsoft Outlook, Apple Mail, Mozilla Thunderbird, Gmail

Statistic Programs: Matlab, R, SAS, SPSS, STATA

Software for multi-criteria decision-making processes: UTA+, ELECTRE

Part XI – Selected Publications on National and International conferences proceedings

1. **C. Ferrara**, F. Martella, M. Vichi “*Dimensions of well-being and their statistical measurements*”. Book of short papers, Making decisions: the role of statistics for knowledge and governance, (April 2012, Rome, Italy), p. 240-244.
2. **C. Ferrara**, F. Martella, M. Vichi “*Probabilistic Disjoint Principal Component Analysis*”. Book of short papers, “PLS 2014 8th International Conference on Partial Least Squares and Related Methods”, (May 2014 Paris, France), p. 85-86.
3. **C. Ferrara**, I. Nofroni, A. Vestri “*La valutazione della qualità della formazione attraverso i questionari opis on-line utilizzando la metodologia dei modelli ad equazioni strutturali*”, SISMEC (September 2015, Turin), p. 438-439 **Poster**.
4. S. Rao, W. Rao, **C. Ferrara** “*Studio preliminare sull’efficacia di un probiotico orale (Reuterin OS®) nel mantenimento di pazienti affetti da parodontite e perimplantite*”. XIX Congresso Nazionale SIdP (March 2016, Turin) **Poster**.
5. R. Delfini, V. Maiola, **C. Ferrara**, A. Landi, N. Marotta “*Cauda Equina Syndrome (CES) secondary to lumbar disc herniation: retrospective clinical study in 25 cases with evolving symptoms*” (July 2016, Spain).
6. M. C. Meroni, E. Visani, **C. Ferrara**, G. Nicolò “*Stili di funzionamento familiare ad esperienza critica: valutazione di una popolazione degente presso un Servizio Psichiatrico Diagnosi e Cura*” Società Italiana di Psicoterapia - SIPSIC Terzo Convegno La Psicoterapia in Evoluzione Disagi Emozionali e regolazione degli Affetti in Tempo di Crisi (October 2015, Rome).
7. E. Visani, **C. Ferrara** “*Studio sulle differenze fra famiglie normali e cliniche*”. Giornata di Studio su Ricerca e Psicoterapia Sistemico-Relazionale IIPR Sede di Roma La famiglia valutata Aspetti clinici della ricerca in terapia familiare (March 2016, John Cabot University - Rome).
8. M.C. Meroni, **C. Ferrara**, “*La violenza nei diversi servizi psichiatrici*”, La gestione della violenza nei confronti degli operatori del dipartimento di salute mentale (June 2016, Colleferro).
9. M.C. Meroni, E. Visani, **C. Ferrara**, G. Niccolò “*La risposta delle famiglie al ricovero in psichiatria*” Convegno di Studio IIPR - SIPRES 2016 - La matrice sociale della psicoterapia: orientamenti e pratiche sistemico-relazionali” (June 2016, Campo Felice di Roccella).
10. A. Prelaj, S. E. Rebuzzi, **C. Ferrara** “*Nivolumab in metastatic lung adenocarcinoma: the importance of patient selection in real life*”. ESMO (October 2016, Copenhagen).
11. A. Prelaj, S. E. Rebuzzi, M. Salvati, A. d'Elia, M. Antonelli, **C. Ferrara**, S. Tomao, V. Bianco “*Non-conventional fotemustine schedule as second-line treatment in recurrent malignant glioma*”. BMC Cancer (BCAN-D-16-00710).

12. G. Del Bene, A. Prelaj, JR. Berrios, LD. Filippis, A. Emiliani, A. Galletti, **C. Ferrara**, F. Longo “*94P: First-line treatment with cisplatin plus etoposide for small cell lung cancer and large cell neuroendocrine carcinoma: Our center experience*”. J Thorac Oncol. 2016 Apr;11(4 Suppl): S97. doi: 10.1016/S1556-0864(16)30207-6. Epub 2016 Apr 15.
13. A. Prelaj, S. E. Rebuzzi, M. Salvati, C. Fusto, C. Pozzi, **C. Ferrara**, L. Palombi, S. Tomao, V. Bianco “*A retrospective analysis to evaluate the efficacy and the safety of Bevacizumab in the treatment of recurrent malignant gliomas*”. Journal of Translational Medicine on 3 Oct 2016 (JTRM-D-16-00541).
14. A. Prelaj, S. E. Rebuzzi, M. Salvati, C. Pozzi, **C. Ferrara**, S. Tomao, V. Bianco “*A retrospective analysis to evaluate the off-label use of Bevacizumab in recurrent malignant gliomas*”. Congresso nazionale AIOM (October 2016) Abstract nr. S47 Published on Annals of Oncology Vol 27 Supp 4 2016 **Poster**. DOI: <https://doi.org/10.1093/annonc/mdw345.47>
15. G. Del Bene, A. Prelaj, J.R. Girón Berríos, L. De Filippis, A. Emiliani, A. Galletti, **C. Ferrara**, F. Longo “*First-Line Treatment with Cisplatin plus Etoposide for Small Cell Lung Cancer and Large Cell Neuroendocrine Carcinoma: our center experience*” **Poster**.
16. A. Prelaj, S. E. Rebuzzi, G. Del Bene, J.R. Girón Berríos, A. Emiliani, L. De Filippis, A. A. Prete, S. Pecorari, G. Manna, **C. Ferrara**, D. Rossini, F. Longo “*Evaluation of the efficacy of cisplatin-etoposide and the role of thoracic radiotherapy and prophylactic cranial irradiation in Large Cell Neuroendocrine Carcinoma*” European CanCer Organisation (ECCO2017) (January 2017, Amsterdam) **Poster**.
17. A. Prelaj, S. E. Rebuzzi, C. Pozzi, V. Frantellizzi, G. A. Follacchio, **C. Ferrara**, S. Tomao, G. De Vincentis, V. Bianco “*Radium 223 dichloride: safety and pain relief in Real Life. A Retrospective analysis of a single center experience*” NCCN 22nd Annual Conference: Improving the Quality, Effectiveness, and Efficiency of Cancer Care. (March 2017, Rosen Shingle Creek (Orlando, Florida)) [EMID:99cfef624e71c038] **Poster**.
18. F. Montagnani, M. Gabriele, **C. Ferrara**, A.R. Marucci, W. De Caro, J. Sansoni “*Diabetes and Depression: a Non-Accidental Multidimensional Combination. A Mixed-Method Observational Case-Control Study*” 13th International Family Nursing Conference, “Improving The Art and Science of Family Nursing: Transforming Health for Families” (June 2017, Pamplona (Spain)).
19. A. Prelaj, S. E. Rebuzzi, J. R. Giròn Berrios, S. Pecorari, C. Fusto, C. Ferrara, M. Salvati, S. Tomao, V. Bianco “*Concomitant versus sequential Fotemustine and Bevacizumab in recurrent malignant gliomas: treatment response and survival outcomes in a retrospective analysis*” Annals of Oncology, Volume 28, Issue suppl_6, (October 2017) doi.org/10.1093/annonc/mdx431.007

Part XII – Selected Publications on National and International Journals

1. **C. Ferrara**, F. Martella, M. Vichi “*Dimensions of well-being and their statistical measurements*”. Book of short papers, 46th Scientific Meeting on the Italian Statistical Society, 2012. ISBN: 978-88-6129-882-8, p. 1-4.
2. **C. Ferrara**, F. Martella, M. Vichi “*Dimensions of well-being and their statistical measurements*”. Springer Book: Studies in Theoretical and Applied Statistics, 2016. ISBN: 978-3-319-27272-6, p. 85-99.
3. **C. Ferrara** “*Advances in Structural Equation Modelling*” PhD thesis - School of Statistical Science in Methodological Statistics, 2015.
4. **C. Ferrara**, I. Nofroni, A. Vestri “*Come valutano gli studenti la qualità della formazione della Sapienza?*”. MEDICINA E CHIRURGIA - Journal of Italian Medical Education - Quaderni delle Conferenze Permanenti delle Facoltà e Scuole di Medicina, 2016. Journal of Italian Medical Education n. 75, 2017 ISSN 2279-7068
5. J. Pepe, C. Cipriani, F. P. Cantatore, A. Fabbri, E. Pola, V. Vinicola, O. Raimo, F. Biamonte, R. Pascone, **C. Ferrara**, S. Minisola “*The effect of parathyroid hormone (1-84) treatment on serum bone morphogenetic protein 4 and vascular endothelial growth factor in postmenopausal women with established osteoporosis*”. Journal of Endocrinological Investigation, 2017. DOI: 10.1007/s40618-017-0636-8
6. D. Concolino, I. Mascaro, M. T. Moricca, G. Bonapace, K. Matalon, J. Trapasso, G. Radhakrishnan, **C. Ferrara**, R. Matalon, P. Strisciuglio “*Long-Term Treatment of Phenylketonuria With a New Medical Food Containing Large Neutral Amino Acids*”. European Journal of Clinical Nutrition (2017) 71, p. 51–55; doi: 10.1038/ejcn.2016.166
7. E. Visani, C. Loredi, S. Di Nuovo, R. Meninchichi, F. Seravelli, C. Agostino, **C. Ferrara** “Differences between normal and clinical families. Studies with FACES IV” http://www.buildingrelationships.com/facesiv_studies/faces4_italy_clinical.pdf
8. A. Prelaj, S. E. Rebuzzi, G. Del Bene, J. R. Giròn Berrìos, A. Emiliani, L. De Filippis, A. A. Prete, S. Pecorari, G. Manna, **C. Ferrara**, D. Rossini, F. Longo “*Evaluation of the efficacy of cisplatin-etoposide and the role of thoracic radiotherapy and prophylactic cranial irradiation in Large Cell Neuroendocrine Carcinoma*” ERJ Open Research, 2017 doi: 10.1183/23120541.00128-2016
9. A. Prelaj, S. E. Rebuzzi, G. Del Bene, J. R. Giròn Berrìos, A. Emiliani, L. De Filippis, A. A. Prete, S. Pecorari, G. Manna, **C. Ferrara**, D. Rossini, F. Longo “*Evaluation of the efficacy of cisplatin-etoposide, the role of thoracic radiotherapy and prophylactic cranial irradiation as first-line treatment in Large Cell Neuroendocrine Carcinoma compared to Small Cell Lung Cancer*” Journal of Thoracic Oncology (JTO-S-16-01661) (submitted).
10. A. Prelaj, S. E. Rebuzzi, M. Salvati, A. d'Elia, M. Antonelli, **C. Ferrara**, S. Tomao, V. Bianco “*Non-conventional fotemustine schedule as second-line treatment in recurrent malignant glioma: a single center experience*”. BMC Cancer (BCAN-D-16-00710). (submitted).
11. A. Prelaj, S. E. Rebuzzi, M. Salvati, C. Fusto, C. Pozzi, L. Palombi, **C. Ferrara**, S. Tomao, V. Bianco “*Retrospective analysis to evaluate the efficacy and the safety of Bevacizumab in the treatment of recurrent malignant gliomas*”. Journal of Translational Medicine, 2018 doi: 10.1186/s41231-018-0023-2
12. **C. Ferrara**, F. Martella and M. Vichi “*Probabilistic Disjoint Principal Component Analysis*”. Multivariate Behavioral Research, 2018 DOI: 10.1080/00273171.2018.1485006

13. A. Prelaj, S. E. Rebuzzi, C. Pozzi, V. Frantellizzi, G. A. Follacchio, **C. Ferrara**, S. Tomao, G. De Vincentis, V. Bianco *"Radium-223 in Patients with metastatic castration-resistant Prostate Cancer: Efficacy and Safety in Real Life Experience"*. Oncology Letters, 2018 DOI: 10.3892/ol.2018.9785
14. A. Prelaj, S. E. Rebuzzi, M. Salvati, A. d'Elia, F. Buttarelli, **C. Ferrara**, S Tomao, V. Bianco *"Non-conventional fotemustine schedule as second-line treatment in recurrent malignant glioma: survival across disease and treatment subgroup analysis and review of the literature"*. Clinical Neurology and Neurosurgery (revision)
15. A. Prelaj, S. E. Rebuzzi, M. Grassi, J. R. Giròn Berríos, S. Pecorari, C. Fusto, **C. Ferrara**, M. Salvati, V. Stati, S. Tomao, V. Bianco *"Multimodal treatment for local recurrent malignant gliomas: resurgery and/or reirradiation followed by chemotherapy"*. Molecular and Clinical Oncology, 2018 doi.org/10.3892/mco.2018.1745
16. I. Voza, F. Capasso, F. Calcagnile, A. Anelli, D. Corridore, C. Ferrara, L. Ottolenghi *"School-age dental screening: oral health and eating habits"* La Clinica Terapeutica, 1(170), 2019 doi: 10.7417/CT.2019.2105

Rome, 20/10/2019

Carla Ferrara



I authorize the use of my personal data pursuant to Legislative Decree 30 June 2003 n. 196 and D.P.R. n. 445/2000