

## **Curriculum vitae of Daniela Cocchi**

### **Present position**

Alma Mater professor since November 1, 2022

### **Former position**

Full Professor of statistics at the Department of Statistical Sciences, University of Bologna (1994-2022).

### **Education**

PhD in Sciences (Statistics), Université Catholique de Louvain, Louvain-la-Neuve, Belgium.

Diplome Speciale en Statistique, Université Catholique de Louvain, Louvain-la-Neuve, Belgium.

Laurea in Scienze Statistiche e Demografiche, Università di Bologna, Italy.

### **Research interests**

Her scientific activity is about methods for finite population sampling and statistical models for environmental problems. In finite populations, her results concern Bayesian solutions for hierarchical superpopulation models and small area inference. She authored papers in reputed journals of statistics and is active also in promoting contacts with institutions interested in statistical analysis.

### **Teaching activity at UniBo**

Bayesian Statistics, Survey sampling, Record Linkage in undergraduate, master, PhD Courses

### **Teaching activity abroad**

Socrates Programme: teaching staff mobility. Teaching activity : Université Catholique de Louvain, Louvain-la-Neuve, March 2002, 2003, 2004; ENSAI (Rennes) March 2006, 2007 and 2008.

### **Supervision of PhD Thesis (since 2014)**

2018 University of Trier, Charlotte Articus, Finite Mixture Models for Small Area Estimation in Cases of Unobserved Heterogeneity (with Ralf Muennich)

2015 University of Bologna, Elena Scardovi, Rainfall spatial predictions: a two part model and its assessment (with Francesca Bruno and Tilmann Gneiting). The PhD scholarship has been partially funded by Servizio Idro-Meteo-Clima di ARPA Emilia-Romagna (ARPA-SIMC)

2015 University of Bologna, Linda Altieri, A changepoint analysis on spatio-temporal point processes (with Marian Scott)

2014 University of Bologna, Lucia Paci, Bayesian space-time data fusion for real-time forecasting and map uncertainty (with Alan Gelfand)

Before 2014, supervision of 15 PhD thesis.

## **Supervision of Research Assistant and Post Doc positions**

### Research Assistant

Massimo Ventrucchi Statistical methods for the analysis of spatial data (October 2016-October 2019)

### PostDoc Positions

Linda Altieri (November 2016-October 2019; November 2020-October 2021) New developments in the assessment of spatial configuration for areal and point process data

European Cohort Development Project <http://www.eurocohort.eu/> and Coordinate Project: Francesco Giovinazzi (February 2018-December 2022)

## **Appointments in the scientific community**

### **Appointments in International Institutions**

Member (2021-2023) of the European Statistical Governance Advisory Board ESGAB <https://ec.europa.eu/eurostat/web/esgab>

### **Appointments in National Institutions**

2017-2022: Coordinator of ISTAT Methodology Advisory Committee

2018-May - President of the MIUR PRIN 2017 (ERC sector SH3) Selection Committee.

2016, October-2018, September

President of the MIUR ASN Committee (*Settore concorsuale 13/D1 – STATISTICA*; Commissione Nazionale per il conferimento dell'abilitazione Scientifica Nazionale alle funzioni di professore universitario di prima e seconda fascia)

2015, December -2019 December, member of ISTAT Council

<http://www.istat.it/it/archivio/33478>

2015, March - 2019 March, Member of COMSTAT at ISTAT

<http://www.istat.it/it/archivio/comstat>

2012, April – 2014 April, Appointed as a member of CNGR (Consiglio Nazionale dei Garanti per la Ricerca)

[http://it.wikipedia.org/wiki/Comitato\\_nazionale\\_dei\\_garanti\\_per\\_la\\_ricerca](http://it.wikipedia.org/wiki/Comitato_nazionale_dei_garanti_per_la_ricerca) by the minister of Education and University , Francesco Profumo.

The committee has been constituted by art. 21 of the law n. 240/2010, for the peer evaluation of research projects, via the work of sub-committees of experts. The committee is formed by 7 members.

2012, March - July: Appointment as Expert in the Group for “Assessing the state of Sistan statistical information on the environment” by the Commission for the Protection of Statistical Information, established within the Presidency of the Italian Council of Ministers) (Sistan: National Statistical System)

### **Appointments at the University of Bologna**

2014 January – 2016 December, member of the VRA (Committee for Research Evaluation) of the University of Bologna <http://www.unibo.it/it/ricerca/strutture-di-ricerca/commissione-per-la-valutazione-della-ricerca-di-ateneo-vra>

### **Appointments at the Department of Statistics, University of Bologna**

Coordinator of the PhD program in Statistics of the Department of Statistics, University of Bologna until May 2013

May 2012 – May 2015 Deputy Director of the Department

May 2012 – May 2015 Head of the Committee for Research of the Department

### **Promotion of statistical education**

Coordinator of the board of SIS-Magazine <http://www.sis-statistica.it/magazine/> the on line magazine of the Italian Statistical Society

Member of the Scientific Committee of the Festival della Statistica since the first Edition 2015 <http://www.festivalstatistica.it/>

Participation in the activity of Parliamone Ora <http://www.parliamoneora.it/>

### **Membership of Scientific Societies**

IASS: International Association of Survey Statisticians <http://isi.cbs.nl/iass/>

TIES: (The International Environmetrics Society) <http://www.environmetrics.org/>

SIS: Italian Statistical Society <http://www.sis-statistica.it/>

ISI: International Statistical Institute <http://isi.cbs.nl/>

### **European Grants and research groups**

Member of the project GUIDE/Eurocohort <https://www.eurocohort.eu/> , entered in the roadmap ESFRI 2021 <https://www.esfri.eu/latest-esfri-news/new-ris-roadmap-2021> . Leading idea: children well-being, investigated via a longitudinal study

Member of the European Cohort Development Project <http://www.eurocohort.eu/> (Jan. 2018 – Dec. 2019)

Member of the European project COORDINATE <https://www.coordinate-network.eu/>

### **Italian Grants**

PI of EPHASTAT project <https://sites.google.com/site/ephastat/home-1> (Feb. 2017- Jan. 2020)

Co-principal investigator (statistical issues) of Telethon Project UILDM 2011: Telethon GUP11007 “Low protein diet to correct defective autophagy in patients with collagen VI related miopathies”; Principal coordinator Luciano Merlini, Responsabile della struttura di Medicina Fisica e Riabilitativa del Dipartimento Rizzoli-Sicilia, Bagheria (PA), Laboratorio di Biologia Cellulare Muscoloscheletrica, IOR-IRCCS, Bologna (approved with 4.84 points out of 5).

Principal investigator of the 2009 agreement between ISTAT/Dipartimento di Scienze Statistiche, Università di Bologna about New sampling methods in the 2011 Italian Population Census.

Principal investigator in the national research project MIUR 2008 “New developments in sampling theory and practice”.

Co-principal investigator (head of a research unit) of the project MIUR 2006 "Methods for collecting and analysing environmental data".

Principal investigator in the national research project MIUR 2004: "Statistical methods for handling complexity and uncertainty in environmental studies".

Principal investigator in the national research project MIUR 2002: "Statistics as an aid for environmental decisions: identification, monitoring and evaluation".

Co-principal investigator (head of a research unit) in national research projects (MURST 2000 and 1998).

Principal Investigator of the project MAAM, Modellistica Ambientale per la gestione dell'Area Metropolitana di Bologna, 1998 (Agreement between the department of Statistics, University of Bologna and ARPA Emilia-Romagna, Bologna Province Section).

Co-principal investigator (head of a research unit) in two national research projects (1995 and 1996).

### **Services in Scientific Societies**

2019 President of the Nomination Committee for the incoming Council of IASS

2013-2017 Member of the IASS (International Association of Survey Statisticians) Council

2011-2015: Member of ISI Council <http://isi-web.org/council>

2011-: Member of the Scientific Committee of AIQUAV (Associazione Italiana Qualità della Vita) <http://www.aiquav.it/>

2009-2011: Member of the Executive Committee of the Working Group on “Survey Sampling Methodologies” of the Italian Statistical Society

2008-2011: TIES President (The International Environmetrics Society, Section of ISI, International Statistical Institute) <http://www.environmetrics.org/> .

2006-2008: TIES President Elect (The International Environmetrics Society).

2006: Proposer and founder member of Permanent Working Group on "Survey Sampling Methodologies" of the Italian Statistical Society

<http://www.gruppocampioni.ec.unipi.it/index.php?l=2&c=home&>

2004-2006: TIES Secretary (The International Environmetrics Society).

2004-2008: SIS President (Società Italiana di Statistica) <http://www.sis-statistica.it/>

2004-: elected member of the International Statistical Institute ISI <http://isi.cbs.nl/>

2000-2004: TIES Regional representative for Europe

2000-: Founder and member of GRASPA (Research Group for Statistical Applications to Environmental Problems) member <http://www.graspa.org>

1998-2002: Member of the Board of the Italian Statistical Society (SIS)

### **Scientific Committee of Conferences**

She performed in several services as a member or head of the Scientific Committees of International and national Conferences, among them

2021 Conferenza nazionale di Statistica

<https://www.istat.it/it/archivio/261537#:~:text=La%20quattordicesima%20edizione%20della%20Conferenza,Patronato%20del%20Presidente%20della%20Repubblica.>

2010-2011: President of the Scientific Committee of Spatial 2, "Spatial Data Methods for Environmental and Ecological Processes"; European regional meeting of TIES, Satellite Conference of ISI 2011, Foggia, 1-2 September 2011 <http://old.unifg.it/spatial/>.

2008-2009: President of the Scientific Program Committee of the Joint Conference TIES2009 Conference and GRASPA2009 Conference, Bologna, July

2009 <http://www2.stat.unibo.it/ties2009/> .

2001-2002: President of the Scientific Program of the XLI Scientific Meeting of the Italian Statistical Society, SIS2002, Milan, June 2012.

Member of the Scientific Committee of TIES2012 Conference, Hyderabad; TIES2010 Conference, Isla Margarita, Venezuela; TIES 2007, Mikulov, Czech Republic; TIES2002 Conference, Genova.

2010-2011 member of the Scientific Committee of Itacosm 2011 ITALian CONference on Survey Methodology, Pisa (Italy), June 27- 29 2011, ITACOSM11, Second ITALian CONference on Survey Methodology, <http://www.itacosm11.dsm.unipi.it> .

2011: Member of the Program Committee of Geomed 2011, 7th international, interdisciplinary conference on spatial statistics and geomedical systems, October 20, 21 & 22nd, 2011, Victoria, British Columbia <http://geomed2011victoria.com/> .

2003-2004: Member of the Program Committee of the XLII Riunione Scientifica della Società Italiana di Statistica, SIS2004, Bari, June 2004.

### **Services in Scientific Journals**

2023- Co-Editor in Chief of Environmental and Ecological Statistics

### **Other Services in Scientific Journals**

2012: Associate Editor of the special issue of Spatial and Spatio-temporal Epidemiology (SMMR) <http://www.journals.elsevier.com/spatial-and-spatio-temporal-epidemiology/> containing a selection of the papers presented at Geomed 2011

2011-: Associate Editor of International Statistical Review <http://isi-web.org/isr>

2010-: member of the Advisory Board of Metron [http://www.metronjournal.it/intro/home\\_en.htm](http://www.metronjournal.it/intro/home_en.htm)

2000-: Associate Editor of

Environmetrics <http://www3.interscience.wiley.com/journal/6285/home?CRETRY=1&SRETRY=0>

2003-2009: Associate Editor of Metron <http://www.metronjournal.it/>

2008-2010: Scientific Committee of "Giornale del Sistan"

### **Guest Editor of special issues of scientific journals**

2011 ENVIRONMETRICS, vol. 22, n. 6 (with Marian Scott) Special Issue: Handling complexity and uncertainty in environmental studies, arising from the TIES-GRASPA joint Conference held in Bologna in 2009.

2008 ENVIRONMETRICS, vol. 19 (with Barbara Cafarelli and Alessio Pollice) Special issue: ‘Spatial data methods for environmental and ecological processes, arising from the International Conference’ Spatial, ‘Spatial Data Methods for Environmental and Ecological Processes’; Foggia, 14-15 September 2006.

### **Other services in research evaluation**

Research evaluation for: MUR-CIVR, Università di Padova, National Science Foundation (USA)