



Curriculum Vitae Europass

PERSONAL INFORMATION

Name **DE IACO SANDRA**

Nationality Italian

E-mail sandra.deiaco@unisalento.it

Gender Female

WORKING EXPERIENCE

- Date (2002-2005) - **Previous academic position:**
- Researcher of Statistics, University of Lecce (Italy), from 2002 to 2005
- Date (2005-2019) - Associate professor in Statistics (Scientific-Disciplinary Sector: SECS-S/01 "Statistics", Competition sector 13/D1 "Statistics"), Department of Economic Sciences (Dipartimento di Scienze dell'Economia), University of Salento, from 2005 to 2019

- Date (2019) - **Actual academic position:** Full professor in Statistics (Scientific-Disciplinary Sector: SECS-S/01 "Statistics", Competition sector 13/D1 "Statistics"), Department of Economic Sciences (Dipartimento di Scienze dell'Economia), University of Salento, since 2019 onwards

EDUCATION AND TRAINING

- Date (1996) MSc degree in Economics and Finance (cum laude) at the University of Lecce, Italy; thesis title "Geostatistical analysis of olive and viticultural spatial distribution in Lecce district"
- Date (1999) PhD degree in Statistics at the University of Lecce, thesis title: "Space-time covariance models" (Doctoral dissertation with result: "excellen^t", March 15, 2002).
- Date (2000-2004) - **Advanced courses:**
- Theory of Statistics - prof. W.G. Faris, University of Arizona, Tucson (USA). (from January 14 to March 10, 2000)

- Robust Statistics - prof. H. Oja Hannu, Università di Jyväskylä, Finland.
(from July 29 to August 12, 2000)

-Time series: Applications and Advances – Prof. Harold D. Clarke, University of Essex - Essex Summer school in Social Science Data Analysis and Collection.
(from July 12 to August 20, 2004)

PERSONAL SKILLS

MOTHER TONGUE

ITALIAN

OTHER LANGUAGE

ENGLISH: certified by an extensive scientific production in English, by research and teaching periods on behalf of foreign university in English-speaking countries, as well as reviewer activities

PRESENT TEACHING ACTIVITY IN ITALY

Courses taught at University of Salento

- Time Series Analysis (Graduate level), since 2004 onwards
- Inferential Statistics (Graduate level), since 2009 onwards
- Statistical Sampling and Inference* (Graduate level), since 2011 onwards
- Statistics for Tourism (Undergraduate level) since 2018 onwards

PREVIOUS TEACHING ACTIVITY IN ITALY

Previous Courses taught at University of Salento

- Spatial Statistics (Undergraduate level) in 2000
- Statistics II (Undergraduate level) from 2002 to 2009
- Statistics I (Undergraduate level) from 2006 to 2008
- Multivariate analysis for social sciences in 2009
- Statistical Planning and Inference (Undergraduate level), from 2009 to 2011.

TEACHING IN PHD LEVEL COURSES, HIGH SCHOOLS, MASTERS, SPECIALIZATION SCHOOLS, REGIONAL AND NATIONAL TRAINING COURSES

----- PhD level Courses -----

- Teaching for the "Statistics" module in the PhD course in "Economics, Management and Quantitative Methods", 32-34th cycles, Department of Economic Sciences, Section of Mathematics and Statistics (Dipartimento di Scienze dell'Economia), no. 47 hours, from 2017 to 2019, no. 20 hours, year 2017

----- High Schools -----

- Teaching for Laboratory in Statistics, Master in Management for the Enhancement of Cultural Heritage - ISUFI High School, Cultural Heritage Sector: knowledge and enhancement, academic year 2006-2007.
- Teaching for Statistics and Econometrics: examples of application cases, in the II level Pre-Degree Course - ISUFI High School, eBusiness Management Sector, from 20.02.2007 to 27.03.2007.
- Teaching for Methods for Social Research, between Economics and Law, ISUFI High School, University of Salento, no. 10 hours, year 2016
- Teaching for Probability and statistics (module B: Natural Sciences AREA) - ISUFI High School, University of Salento, no. 36 hours from 2015 to 2017

----- Masters -----

- Teaching for modules entitled "M2-Inferential statistics", M3-Features in Econometrics, M4-Geostatistics," Master P.I.T. (Integrated Territorial

Programs), academic year 2006-2007.

- Teaching for module entitled “Statistical Inference”, Two-level Master in Mathematical Finance, academic year 2006-2007.

----- Specialization Schools -----

- Teaching in Statistics (assigned by the Proposal Committee of the Inter-university Specialization School for the Training of Secondary School Teachers Prot. N. 7743/07), competition class 48/A, 57/A, 59/A, 60/A, Lecce. from 05.03.2007 to 05.06.2007.
- Teaching for "Laboratories, Seminars and Lessons of Statistical Sciences" (assigned by the Proposal Committee of the Inter-university Specialization School for the Training of Secondary School teachers (Prot. N. 2492/08), competition class 17 / A, Lecce, from 05.02.2008 to 05.05.2008.

----- Regional and National Training Courses -----

- Teaching in the ISTAT (National institute of statistics) Statistical Training Course regarding Staff of the Statistical Offices of Municipalities, module “Data collection, Sampling plan and Statistical reports” (*Rilevazione dei dati, Piano di campionamento e Rapporti Statistici*), year 2000.
- Teaching in the Regional Training Course POR APULIA 2000-2006, Axis IV, Measure 4.20, Action b), “Statistical and Information Technologies for Industry, Commerce and Tourism” (*Tecnologie statistico-informatiche per l’industria, il commercio ed il turismo*), Apulia Region D.D. 554/2009, University of Salento, from 8.05.2009 to 15.06.2009.
- Teaching in the Regional Training Course POR APULIA 2000-2006, Axis I, Measure 1.10, Action b), “Methods for the statistical analysis of environmental data with spatial and space-time structure” (*Metodi per l’analisi statistica dei dati ambientali a struttura spaziale e spazio-temporale*), Apulia Region D.D. 552/2009, University of Salento, from 08.05.2009 to 15.06.2009.
- Teaching in the Regional Training Course POR APULIA 2007-2013, Axis IV, Measure 4.20, Action b), “Statistical techniques and GIS for the enhancement of the environmental and cultural heritage” (*Tecniche statistiche e GIS per la valorizzazione del patrimonio ambientale e culturale*), D.D. 187 of 24/12/2010 by the Province of Lecce, Training and Employment Service (*Provincia di Lecce, Servizio Formazione e Lavoro*), published on BURP no. 194/2010, University of Salento, from 10.05.2011 to 9.12.2011.

TEACHING ABROAD

- Teaching visit at the ISM University Of Management and Economics, Lituania, ERASMUS Program September 2016
- Teaching visit at the University of Arizona, Tucson, USA August 2016
- Teaching visit at the Universidad Politècnica de València (Spain) invited by prof. Jaime Gómez Hernandez, Summer School entitled “Space-Time predictions and some applications in R”, July 2017
- Teaching visit at the University of Split, ERASMUS Program, May 2017
- Teaching visit at the University of Eastern Finland (Joensuu-Finland), ERASMUS Program, Sept 2017
- Teaching visit at the Universidad de Oviedo (Dept. Estadística y I.O.) May 2018

RESEARCH ACTIVITY ABROAD

PARTICIPATION AT INTERNATIONAL CONFERENCES AS INVITED SPEAKER OR SPEAKER IN PLENARY OR CHAIR SESSIONS OR AS A MEMBER OF THE SCIENTIFIC COMMITTEE

- External examiner of PhD theses, Edith Cowan University-Australia, in 2011.
- Expert for Mathematical Reviews-a division of American Mathematical Society, USA, since 2012
- External examiner of PhD theses, Edith Cowan University-Australia, in 2014.
- Chairwoman (Session SL2 - Geostatistics and environmental applications) in the international conference SIS 2014 47th Scientific Meeting of the Italian Statistical Society, Cagliari, Italia, June 2014
- Speaker in a plenary session and chairwoman in a parallel session (Parallel Session 4 "Air quality") of the 11th International Conference on Geostatistics for Environmental Applications-GeoENV2016, Lisbon, Portugal, July 2016.
- Chairwoman in the international conference GEOSTATS2016, Universidad Politecnica de Valencia, Spain, September 2016.
- Member of the scientific committee of the international conference Spatial Statistics 2017 - One world: One health, Lancaster University, UK, July 2017.
- Chairwoman (Session - A1, "Space-time") in the international conference SPATIAL STATISTICS 2017, University of Lancaster, July, 2017.
- Chairwoman in the parallel session Health, Epidemiology and the Environment, of the 12th International Conference on Geostatistics for Environmental Applications-GeoENV2018, Queen's University, Belfast, Northern Ireland July 2018.
- Member of the scientific committee of the international conference Spatial Statistics 2019 - Towards spatial data analysis, Sitges, Spain, July 2019.
- Member of the scientific committee of the 13th international conference on Geostatistics for Environmental Applications-GeoENV 2020, Parma, Italy, July, 2020.

ABROAD STAYS

- Department of Environmental Sciences and Engineering, University of North Carolina, Chapel Hill (USA); for research activities with prof. G. Christakos (Professor and Director of the Center for Advanced Study of the Environment), June 2001.
- Department of Mathematics, University of Arizona, Tucson (USA); for research activities with prof. D. E. Myers (Emeritus Professor of Mathematics, Joint Professor of Hydrology, Adjunct Professor of Watershed Management, Member of Applied Mathematics Program, Committee on Remote Sensing and Spatial Analysis), January-March 2000, May 2001, July 2006, August 2012.
- Department of Environmental Technology & Ecology, Technological & Educational Institute of Ionian Islands, Zacinto; for research activities with prof Anastasios Kalimeris, Corfù, Patrasso May 2012, September 2015. Research for the Interreg Project IV Grecia-Italia, 2007-2013, "Development of an Environmental-Meteorological Stations Network in the Ionian Islands and the Southern Italy".

SCOLARSHIP

- "Project: Leonardo da Vinci", Tucep Consortium, "LEARNING INTEGRATED BY WORKING - LIRI - contract No. I/96/2/0765/PL/II.1.2.A/FPI - contract period: 02.12.96-01.12.1998
- "Spatial Analysis of the italian distribution system" (*Analisi territoriale del sistema distributivo italiano*), Coop Estense Modena, November 1998-January 1999

DIRECTION/ PARTICIPATION IN JOURNAL'S EDITORIAL BOARD

- Component of the Editorial board of International Journal of Scientific and Statistical Computing (IJSSC), Published by CSC Journals, Kuala Lumpur Malaysia since 2012
- Component of the Editorial board of Geoinformatics & Geostatistics : an overview. since 2013

**SUPERVISOR OF PhD
THESES, RESEARCH
FELLOW AND SIMILAR
ACTIVITIES**

- Component of the Editorial board of Spatial Statistics since 2015
- Component of the Editorial board of Mathematical Geosciences since 2018
- Editor of the Special issue 2 (S2), entitled “New Frontiers in Integrating Geostatistics and GIS”, Geoinformatics & Geostatistics: an overview, november 2019.
- Tutor for the post-doctoral position, topic “Geostatistics and Customer Satisfaction for the environment and health”, October 2014 – September 2015.
- Tutor for the post-doctoral position, topic: “Geostatistical models and new computational aspects for space-time forecasting” (*Modelli geostatistici ed aspetti computazionali innovativi per la previsione spazio-temporale*), May 2018-April 2019.
- Scientific coordinator for a cycle of seminars at the University of Salento with the participation of:
 - Rodrigo Manzione, Universidade Estadual Paulista (UNESP), Sao Paulo State, Brazil, “Spatio-temporal variability of water table depths: a case study in a Bauru Aquifer System area”, October 3, 2017.
 - Ute Mueller, Edith Cowan University, Australia “Spatial decorrelation methods revisited”, October 2, 2018, “Marine life abundance hotspots and distribution patterns”, October 3, 2018, “A truly multivariate normal score transformation”, October 4, 2018.
 - Luigi Sedda, Lancaster University, UK, “Vector populations mapping and sampling”, December 4, 2018.
 - Emilio Porcu, Newcastle University, UK & University of Atacama, Chile, “Modeling Temporally Evolving Global Spatial Data”, January 8, 2019.
 - Dionissios T. Hristopulos Technical University of Crete, “Basic Concepts of Space-Time Geostatistics”, November 13, 2019. “Introduction to Space-time prediction and Principles of Simulation”, November 14, 2019; “Local-Interaction Energy Functionals and Applications in Space-Time Data Analysis”, November 15, 2019.
- Member of the organizing committee of the seminars, at the University of Salento, of:
 - D.E. Myers (University of Arizona – USA): “Spatial and Spatial-temporal analysis” September 15-17, 2008; “Spatial and Spatial-temporal multivariate analysis”, February 1-3, 2010; “Spatial-temporal modeling and prediction for environmental data”, April 14-15, 2011; “Joint probability distributions, copulas and geostatistics: theory and applications”, September 9, 2014.
 - Vincenzo Capasso (University of Milan “La Statale”) “La teoria delle correnti aleatorie e sue applicazioni”, November 6-7, 2018.

AWARDS AND GRANTS

- Young Researcher Prize for the paper presentation “Some space-time models: an application to NO2 pollution in an urban area”, COMPSTAT 2000, Utrecht, The Netherland.
- “Who’s Who in Science and Engineering 2005-2006” by Inc. Marquis Who’s Who from January 2005 to December 2006.

**ACTIVITIES IN RESEARCH
PROJECT**

- Member of the research group for the project EX-60% “Statistical analysis of spatio-temporal data” (*Analisi statistica di dati a struttura spazio-temporale*), in 1998.
- Member of the research unit for the project M.U.R.S.T. 40% (National project) “Methods and techniques for analyzing spatial and spatio-temporal data” (*Metodi e tecniche statistiche per l’analisi di dati a*

- struttura spaziale e spazio-temporale*) in 1999.
- Member of the research group for the project “The statistics for the Environment - Analysis of data on waste” (*La Statistica per l'ambiente – Analisi dei dati relativi ai rifiuti*), financed by CUIS (Consorzio Universitario Interprovinciale Salentino) of Province of Lecce (Apulia region) in 2006.
 - Member of the research group for the project Aquifalc, Working Package “Assessing Albanian economic statistics” (Task 2), University of Salento 2007-2008.
 - Member of the research group for the project regarding the exit poll during the administrative elections in May-June 2007 and April 2008, for the provinces of Lecce, Brindisi and Taranto.
 - Member of the research group for the project “Analysis of preferences and quality of the local television service in the City of Lecce” (*Analisi delle preferenze e della qualità del servizio televisivo locale nella Città di Lecce*), cofinanced by the Municipality of Lecce, in 2008.
 - Member of the research group for the project “Statistical Model for the Analysis of Social Policy” (*Modello Statistico per l'analisi delle Politiche Sociali*), financed by CUIS (Consorzio Universitario Interprovinciale Salentino) of Province of Lecce (Apulia region) in 2008.
 - Member of the research group for the project “A system for the government of wastewater (*Un sistema per il governo delle acque di scarico*)” cofinanced by Province of Lecce (Apulia Region), in 2009.
 - Member of the research group for the project, “Separate waste collection and young people: A statistical model for the best practice of Separate Waste Collection” (*Raccolta differenziata e Giovani: Un Modello per la diffusione di buone eco-prassi*) cofinanced by CUIS (Consorzio Universitario Interprovinciale Salentino) of Province of Lecce (Apulia region) in 2009.
 - Member of the research group for the project “Research and analysis on local television broadcasting in Province of Lecce” (*Ricerche ed analisi sull'emittenza televisiva locale nella Provincia di Lecce*), cofinanced by Province of Lecce (Apulia Region), in 2009.
 - Member of the research group for the project “Advances of multivariate Geostatistics for analysing environmental data sets in space and space-time” (*Sviluppi della geostatistica multivariata per l'analisi dei dati ambientali nello spazio e nello spazio tempo*), cofinanced by Fondazione Caripuglia in 2010.
 - Member of the research group for the project “Advances of multivariate Geostatitics for analysing environmental data sets in space and space-time” (*Sviluppi della geostatistica multivariata per l'analisi dei dati ambientali nello spazio e nello spazio tempo*), cofinanced by Fondazione Caripuglia in 2010.
 - Member of the research group for the project “Statistical information system for market areas” (*Sistema informativo statistico per le aree mercatal*), financed by CUIS (Consorzio Universitario Interprovinciale Salentino) of Province of Lecce (Apulia region) in 2011.
 - Principal investigator of the project “5x1000”, “Stochastic interpolation models for environmental monitoring: theoretical and practical developments” (*Modelli di interpolazione stocastica per il monitoraggio ambientale: sviluppi teorici e applicativi*), financed by University of Salento in 2011.
 - Scientific coordinator of the project Interreg 2007-2013 (3-3.2): “Development of an Environmental-Meteorological Stations Network on the Ionian Islands and Southern Italy-DEMSNIISI”, principal investigator: prof. Dr. Anastasios Kalimeris (Technological Educational Institute of the Ionian Islands), cofinanced by the European Community in 2012.
 - Principal investigator of the project “Environment and Health: geostatistical analysis and customer satisfaction survey for oncological services” (*Ambiente e salute: analisi geostatistica con modelli stocastici e indagine di customer satisfaction per i servizi sanitari di onco-ematologia*), cofinanced by CUIS (Consorzio Universitario Interprovinciale Salentino) of Province of Lecce (Apulia region),

Association La Rosa-Angela Serra in Lecce, LILT Section of Lecce, Istituto Immacolata A.S.P. (Public company for personal services), in 2013.

- Principal investigator of the project “The sound I wish. A survey on musical habits in Apulia region” (*Il suono che vorrei: uno studio sui consumi musicali in Puglia*) financed by Coolclub in 2014.
- Member of the research group for the project “A geo-referenced statistical model for the phenomenon of stray dogs” (*Un modello statistico geo-riferito per il fenomeno dei cani vaganti*), cofinanced by CUIS (Consorzio Universitario Interprovinciale Salentino) of Province of Lecce (Apulia region), by the Department of Economic Sciences (Dipartimento di Scienze dell’Economia), University of Salento, by Valle della Cupa Consortium, in 2014.
- Member of the research group for the project “Statistical analysis of the population of stray dogs and owned dogs” (*Analisi statistica della popolazione canina vagante e dei cani di proprietà*), financed by A.S.L. of Lecce, in 2014.
- Member of the research group for the project Economi@education learning, University of Salento, in 2015.
- Member of the research group for the project “Geostatistical models and new computational aspects for space-time forecasting” (*Modelli geostatistici ed aspetti computazionali innovativi per la previsione spazio-temporale*), cofinanced by Fondazione Caripuglia in 2015.
- Principal investigator of the project “Museum tourism and local development. A statistical analysis for the economic and management decision” (*Turismo Museale e Sviluppo Locale: Analisi statistica di supporto alle decisioni economico-gestionali*), in 2018, cofinanced by CUIS (Consorzio Universitario Interprovinciale Salentino) of Province of Lecce (Apulia region), Project in progress.

EXTRA MOENIA ACTIVITIES RELATED TO THE RESEARCH AREA

- Research assignment for the Project “Analysis of preferences and quality of the local television service in the City of Lecce”, cofinanced by the Municipality of Lecce, in 2008. Scientific responsible: prof. Donato Posa, University of Salento.
- Research assignment for the Project “Analysis of preferences and quality of the local television service in the City of Lecce”, co-financed by the Municipality of Lecce, for the period June 2008-February 2009. Scientific responsible: prof. Donato Posa, University of Salento.
- Research assignment for the Project “Research and analysis on local television broadcasting in Province of Lecce”, cofinanced by Province of Lecce (Apulia Region), for the period June 2008-February 2009. Scientific responsible: prof. Donato Posa, University of Salento.
- Research assignment for the Project “A system for the government of wastewater” (*Un sistema per il governo delle acque di scarico*) cofinanced by the Province of Lecce and AXA Group, for the period July 2008-March 2009. Scientific responsible: prof. Donato Posa, University of Salento.

MANAGEMENT RESPONSIBILITIES

- President of the Didactic Council of the Tourism Area with Decree no. 805, December 10, 2018
- Vice-President of the Didactic Council for the Economic-quantitative area from 2009 to 2018.

OTHER SCIENTIFIC ACTIVITIES

- **Referee of various journals:** Spatial Statistics, Stochastic Environmental Research and Risk Assessment, Mathematical geosciences, Mathematical Reviews, Communications in Statistics–Theory and Method, Sustainability, Advances in Economics and

business, Environmental Modelling & Software, Journal of Geographical Systems, Hydrology Research, Environmental Science and Pollution Research, IEEE Transactions on Reliability, Atmosphere, Expert Systems With Applications, Journal of Multivariate Analysis

MEMBERSHIPS

- Italian Statistical Society (SIS) since 1999
- International Association for Mathematical Geosciences since 2001
- International Association for Statistical Computing since 2001
- American Mathematical Society from 2012 to 2017
- International Statistical Institute (ISI) since 2013
- Institute of Mathematical Statistics (IMS) since 2013
- American Statistical Association (ASA) from 2013 to 2017
- International Environmetrics Society (TIES) since 2015

OTHER PARTICIPATION IN INTERNATIONAL AND NATIONAL CONFERENCE AS INVITED SPEAKER/ MEMBER OF SCIENTIFIC COMMITTEE

- Speaker, with prize for the best presentation, in the 14th Symposium on Computational Statistics, Compstat 2000, Utrecht, The Netherland, August 21-25, 2000.
- Speaker at the third European Conference on Geostatistics for Environmental Applications - geoENV2000, Avignon, France, November 22-24, 2000.
- Speaker at the CLADAG 2001, Meeting of the Classification and Data Analysis Group of the Italian Statistical Society, Palermo, Italy, July 5-6, 2001.
- Speaker at the Annual Conference of the International Association for Mathematical Geology - IAMG2001, Cancun, Mexico, September 6-12, 2001.
- Speaker at the conference "Sistema Qualità, Tutela Ambientale e Sviluppo Economico", Messina, Italy, October 15-16, 2001.
- Member of the scientific committee for the conference "La Statistica oltre i dati", Lecce, May 8, 2007.
- Speaker at the International Conference Applied Statistics 2007–Statistical Society of Slovenia, Ribno (Bled), Slovenia, September 23-26, 2007.
- Speaker of two contributions at the conference "A Bernoulli Society satellite meeting of ISI'2007 -Probability and Statistics in Science and Technology", Porto, Portugal, August 30-September 1, 2007.
- Member of the scientific committee for the conference "Metodi, Modelli e Tecnologie dell'informazione a supporto delle decisioni" (MTISD), Lecce, September, 18-20, 2008.
- Member of the scientific committee of the National Association of Italian Municipalities conference - USCI 2009 (Convegno nazionale Unione Statistica dei Comuni Italiani - Censimenti e federalismo), May 5-6, 2009.
- Speaker at the 9th Conference on Geostatistics for Environmental Applications - geoENV 2012, Valencia, Spain, September 19-21, 2012.
- Speaker at the 17th Annual Conference of the International Association for Mathematical Geosciences-IAMG2015, Freiberg (Saxony), Germany, September 9-11, 2015.
- Invited Speaker at the GEOSTATS2016 International Conference, Universidad Politecnica de Valencia, Spain, September 5- 9, 2016.

MANAGEMENT/ PARTECIPATION IN THE NATIONAL AND INTERNATIONAL RESEARCH ACTIVITIES

- Member of the Permanent Group of the Italian Statistical Society (SIS), "Statistics for the evaluation of the service quality" (*La Statistica per la valutazione della qualità dei servizi*), since 2004
- Member of the scientific committee of the SIS Course "Advanced methods for the statistical analysis of spatial and space-temporal data" (*Metodi avanzati per l'analisi statistica dei dati a struttura spaziale e*

spazio-temporali), Complesso Ecotekne, University Salento, Lecce, May 2007.

- Member of the research group “TOURISM EXPERIENCE DEVELOPMENT-Enterprises, institutions and tourism market” Interdepartmental Center for Tourism (TEDA & I) since 2013.
- Member of the GRASPA-SIS permanent group since 2013, with contributions published in the proceedings of the following conferences:
 - DUST, Castellaneta Marina. June 6, 2014. International Conference. Special track MF8 –Statistical Modeling of Emissions and air quality - ISBN 978-88-7522-095-2
 - SIS 2013, Brescia. June 19, 2013. Special track on Space and space-time models: methods and environmental applications - ISBN 978-88-3432-556-8.
 - GRASPA -SIS 2019, Bergamo, July 16, 2019. On the reliability of some tests on type of non-separability and type of class of covariance models – poster; C. Cappello, S. De Iaco, M. Palma and D. Posa; Multivariate geostatistical tools for time series modeling and prediction – poster S. De Iaco, S. Maggio, M. Palma and D. Pellegrino; A nonparametric spatio-temporal approach for multiple CUSUMs of evapotranspiration – poster, D. Pellegrino, G. Giungato and S. De Iaco; ISBN 978-88-97413-34-9, Università degli Studi of Bergamo (Italy).

SCIENTIFIC PRODUCTION

PAPERS ON INTERNATIONAL JOURNALS

1. De Iaco S., Myers D.E., Posa D., *Space-time analysis using a general product-sum model*, Statistics and Probability Letters, ISSN:0167-7152, vol. 52(1), pp. 21-28, **2001**.
2. De Iaco S., Palma M., *Convergence of realization-based statistics to model-based statistics for the LU unconditional simulation algorithm: some numerical tests*, Stochastic Environmental Research and Risk Assessment, ISSN:1436-3240, vol. 16(5), pp. 333-341, **2002**.
3. De Iaco S., Myers D.E., Posa D., *Nonseparable space-time covariance models: some parametric families*, Mathematical Geology, ISSN:0882-8121, vol. 34(1), pp. 23-41, **2002**.
4. De Iaco S., Myers D.E., Posa D., *Space-time variograms and a functional form for total air pollution measurements*, Computational Statistics and Data Analysis, ISSN:0167-9473, vol. 41(2), pp. 311-328, **2002**.
5. Myers D.E., De Iaco S., Posa D., De Cesare L., *Space-Time Radial Basis Functions*, Computers and Mathematics with Applications, ISSN:0898-1221, vol. 43(3/5), pp. 539-549, **2002**.
6. De Iaco S., Palma M., Posa D., *Covariance functions and models for complex-valued random fields*, Stochastic Environmental Research and Risk Assessment, ISSN:1436-3240, vol. 17(3), pp. 145-156, **2003**.
7. De Iaco S., Myers D.E., Posa D., *The linear coregionalization model and the product-sum space-time variogram*, Mathematical Geology, ISSN:0882-8121, vol. 35(1), pp. 25-38, **2003**.
8. De Iaco S., Palma M., Posa D., *Modeling and prediction of multivariate space-time random fields*, Computational Statistics and Data Analysis, ISSN:0167-9473 vol. 48 (3), pp. 525-547, **2005**.
9. De Iaco S., *Space-time correlation analysis: a comparative study*, Journal of Applied Statistics, ISSN:0266-4763 vol. 37 (6), pp. 1027-

- 1041, **2010**.
10. De Iaco S., Myers D.E., Palma M., Posa D., *FORTTRAN programs for space-time multivariate modeling and prediction*, Computers & Geosciences - ISSN:0098-3004 vol. 36 (5), pp. 636-646, **2010**.
 11. De Iaco S., Myers D.E., Posa D., *On strict positive definiteness of product and product-sum covariance models*, Journal of Statistical Planning and Inference, ISSN:0378-3758, vol. 141(3), pp. 1132-1140, **2011**.
 12. De Iaco S., Maggio S., *Validation Techniques for Geological Patterns Simulations Based on Variogram and Multiple-Point Statistics*, Mathematical Geosciences, ISSN:1874-8961, vol. 43(4), pp. 483-500, **2011**.
 13. De Iaco S., *A new space-time multivariate approach for environmental data analysis*. Journal of Applied Statistics, ISSN:0266-4763, vol. 38 (11), pp. 2471-2483, **2011**.
 14. De Iaco S., Myers D.E., Posa D., *Strict positive definiteness of a product of covariance functions*, Communications in statistics. Theory and Methods, ISSN:0361-0926, vol. 40(24), pp. 4400-4408, **2011**.
 15. De Iaco S., Maggio S., Palma M., Posa D., *Towards an automatic procedure for modeling multivariate space-time data*, Computers & Geosciences, ISSN:0098-3004, vol. 41(1), pp.1-11, **2012**.
 16. De Iaco S., Posa D., *Predicting spatio-temporal random fields: Some computational aspects*, Computers & Geosciences, ISSN:0098-3004 vol.41, pp. 12-24, **2012**.
 17. De Iaco S., Palma M., Posa D., *Prediction of particle pollution through space-time multivariate analysis: Spatial special issue*, ASTA Advances in Statistical Analysis, ISSN:1863-8171, vol. 97(2), pp. 133-150, **2013**.
 18. De Iaco S., Myers D.E., Palma M., Posa D., *Using Simultaneous Diagonalization to Identify a Space-Time Linear Coregionalization Model*, Mathematical Geosciences, ISSN:1874-8961 vol. 45(1), pp. 69-86, **2013**.
 19. De Iaco S., Posa D., Palma M., *Complex-Valued Random Fields for Vectorial Data: Estimating and Modeling Aspects*, Mathematical Geosciences, ISSN:1874-8961, vol. 45, pp. 557-573, **2013**.
 20. De Iaco S., Posa D., *Positive and negative non-separability for space-time covariance models*, Journal of Statistical Planning and Inference, ISSN:0378-3758, 143(2), pp. 378-391, **2013**.
 21. De Iaco S., Posa D., Myers D.E., *Characteristics of some classes of space-time covariance functions*, Journal of Statistical Planning and Inference, ISSN:0378-3758 vol. 143(11), pp. 2002-2015, **2013**.
 22. De Iaco S., *On the use of different metrics for assessing complex patterns reproductions*, Journal of Applied Statistics, ISSN:0266-4763, vol. 40(4), pp. 808-822, **2013**.
 23. De Iaco S., Palma M., Posa D., *Spatio-temporal geostatistical modeling for French fertility predictions*, Spatial Statistics. ISSN:2211-6753 vol. 14, part C, pp. 546-562, **2015**.
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I declare that everything reported in this curriculum vitae corresponds to the truth, according to the articles 46 and 47 of the Presidential Decree, December 28, 2000, no. 445 and subsequent modifications.

I also declare that I agree, pursuant to Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, to the processing of personal data contained in this curriculum vitae.

Date, June 25, 2020

The Principal Investigator
(Sandra De Iaco)


