

Name: *Enea Giuseppe Bongiorno*  
Date and Place of Birth: *17/02/1981, Milano*  
Nationality: *Italian*  
Married (2009), two kids (2012, 2016)  
Office Address: *DiSEI (UPO), Via Perrone, 18 - 28100 Novara - Italia*  
Phone: *(+39) 0321 375 317*  
E-mail: *enea.bongiorno@uniupo.it*  
web-site: <http://upobook.uniupo.it/enea.bongiorno>  
ORCID number: 0000-0001-6927-0381



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## WORK EXPERIENCES

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03/2019 - ONGOING <i>Associate Professor</i>	<b>Department of Studies in Economics and Business</b> UNIVERSITÀ DEL PIEMONTE ORIENTALE
02/2013 - 02/2019 <i>Assistant Professor</i>	<b>Department of Studies in Economics and Business</b> UNIVERSITÀ DEL PIEMONTE ORIENTALE
10/2012 - 02/2013 <i>Post Doc - Population dynamics</i>	<b>Department of Mathematics</b> UNIVERSITÀ DEGLI STUDI DI MILANO
02/2009 - 09/2012 <i>Post Doc - Stochastic Geometry</i>	<b>Department of Mathematics</b> UNIVERSITÀ DEGLI STUDI DI MILANO

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## SERVICE FOR THE SCIENTIFIC COMMUNITY

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- 08/2022 – ongoing, *Board of Directors Member* of **European Regional Section of IASC** (International Association for Statistical Computing) - **ISI** (International Statistical Institute)
- 01/2022 – ongoing, Associate Editor for *Computational Statistics*
- 04/2021 – ongoing, Associate Editor for *Computational Statistics and Data Analysis*

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## EDUCATION

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1/11/2004 - 06/02/2008 <i>Ph.D. in Mathematics</i>	<b>Department of Mathematics</b> UNIVERSITÀ DEGLI STUDI DI MILANO
- Title: <i>A birth and growth process for random closed sets based on Minkowski sum</i> Advisors: Prof. G. Aletti, Prof. V. Capasso	
- Visit: <i>Université Pierre et Marie Curie - Paris VI</i> (Prof. D. Bosq).	
09/1999 - 18/02/2004 <i>Graduated in Mathematics, Summa cum Laude.</i>	<b>Department of Mathematics</b> UNIVERSITÀ DEGLI STUDI DI MILANO
- Title: <i>Limit Theorems in Stochastic Geometry</i> Advisor: Prof. V. Capasso      Coadvisor: Prof. A. Micheletti	

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## INTERESTS, COLLABORATIONS AND PROJECTS

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### RESEARCH INTERESTS

- Semi- and non-parametric statistical analysis for functional data (with A. Goia, P. Vieu.)
- Robust statistical estimation in Hilbert space (with A. Colubi, G. Gonzalez-Rodriguez)
- Optimality criteria for dimension reduction techniques (with J.-B. Aubin and R. Ignaccolo)
- Statistical theorems and applications for constrained random curves (with A. Goia)
- Representation theorems for random curves (with G. Aletti)
- Random (fuzzy) set-valued processes (with G. Aletti, V. Capasso)
- Statistical and computational aspects of previous topics

### VISITS

09-10/2016 - <b>Invited</b> <i>Collaboration with P. Vieu</i>	<b>Institut de Mathématiques de Toulouse</b> UNIVERSITÉ PAUL SABATIER, FRANCE
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11/2014 - **Invited** **Institut de Mathématiques de Toulouse**  
UNIVERSITÉ PAUL SABATIER, FRANCE  
*Collaboration with P. Vieu*

10/2014 - **Invited** **Department of Statistics, Faculty of Sciences**  
UNIVERSIDAD DE OVIEDO, SPAIN  
*Collaboration with A. Colubi, G. González-Rodríguez*

06-07/2006 **Laboratoire de Statistique Théorique et Appliquée (LSTA)**  
UNIVERSITÉ PIERRE ET MARIE CURIE - PARIS VI, FRANCE  
*Collaboration with D. Bosq*

RESEARCH PROGRAMS AND GRANTS (FUNDED BY COMPETITIVE SELECTION)

- 2022 - 2026. **Member**  
 COST Action CA21163 “HiTEc”, “Text, functional and other high-dimensional data in econometrics:  
 New models, methods, applications”  
*Granted by European Union.*
- 2015 - 2019. ( $\sim 700000$  €) **Member**  
 COST Action IC1408 “CRoNoS”, [www.cronosaction.com/](http://www.cronosaction.com/)  
*Granted by European Union.*
- 2017. (3000€) **Funded**  
 “FABR (Finanziamento Annuale individuale delle attività base di ricerca) 2017”,  
*Granted by MIUR (Ministero dell’Istruzione, dell’Università e della Ricerca)*
- 2016. (1000€) **Label scientifico UIF/UFI**  
*Granted by Università Italo-Francese*
- 2016. ( $\sim 2800$ €) **Maitre de conférences invité**  
*Granted by University Paul Sabatier Toulouse*
- 2015. (1500 €) **Principal Investigator**  
 “Modelli probabilistici in spazi infinito–dimensionali. Applicazioni alla statistica funzionale.”  
*Granted by “Istituto Nazionale di Alta Matematica (INdAM) - Gruppo Nazionale per l’Analisi  
 Matematica, la Probabilità e le loro Applicazioni (GNAMPA) Project 2015”*
- 2015. ( $\sim 4000$  €) **Funded**  
 “Visiting Professor Action 2014”,  
*Granted by Università del Piemonte Orientale*
- 2009 - 2013 ( $\sim 175000$  €) **Participant**  
 PRIN, “Dalla microscala alla macroscala in sistemi stocastici di particelle interagenti in dinamica di  
 popolazione”. Scientific Coordinator: Prof. Iannelli M. Local Coordinator: Prof. Capasso V. Institution:  
 Università degli Studi di MILANO.  
*Granted by MIUR (Ministero dell’Istruzione, dell’Università e della Ricerca)*

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## PUBLICATIONS AND PRE-PRINT

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PEER-REVIEWED PUBLISHED ARTICLES: INTERNATIONAL JOURNALS

13. A. M. Di Brisco, E. G. Bongiorno, A. Goia, S. Migliorati. Bayesian Flexible Beta Regression Model with Functional Covariate. *Computational Statistics*, (2022) (doi: 10.1007/s00180-022-01240-5).
12. J. B. Aubin, E. G. Bongiorno, A. Goia. The correction term in a Small–Ball Probability factorization for random curves. *Journal of Multivariate Analysis*, 189 May (2022) (doi : 10.1016/j.jmva.2021.104891).
11. E. G. Bongiorno, A. Goia, P. Vieu. Estimating the complexity index of functional data: Some asymptotics. *Statistics and Probability Letters*, 161 June (2020) (doi: 10.1016/j.spl.2020.108731).
10. E. G. Bongiorno, A. Goia. Describing the Concentration of Income Populations by Functional Principal Component Analysis on Lorenz curves. *Journal of Multivariate Analysis*, 170 March (2019) pp. 10-24 (doi: 10.1016/j.jmva.2018.09.005).
9. E. G. Bongiorno, A. Goia, P. Vieu. Modeling Functional Data. A test procedure. *Computational Statistics*, 34 (2) June (2019) pp. 451–468 (doi: 10.1007/s00180-018-0816-9).
8. E. G. Bongiorno, A. Goia. Corrections on Some insights about the small ball probability factorization for Hilbert random elements. *Statistica Sinica*, 28(1) (2018) pp.549-549. (doi: 10.5705/ss.202016.0128).
7. E. G. Bongiorno, A. Goia, P. Vieu. Evaluating the complexity of some families of functional data. *SORT*, 42 (1) January-June (2018). (doi: 10.2436/20.8080.02.50).

6. E. G. Bongiorno, A. Goia. Some Insights About the Small Ball Probability Factorization for Hilbert Random Elements. *Statistica Sinica*, 27 (2017) pp. 1949–1965. (doi: 10.5705/ss.202016.0128).
5. E. G. Bongiorno, A. Goia. Classification methods for Hilbert data based on surrogate density. *Computational Statistics & Data Analysis*, 99 (2016) pp. 204–222. (doi: 10.1016/j.csda.2016.01.019).
4. G. Aletti, E. G. Bongiorno. A decomposition theorem for fuzzy set-valued random variables. *Fuzzy sets and Systems* 219 (2013) pp. 98–112. (doi: 10.1016/j.fss.2012.11.005).
3. E. G. Bongiorno. A note on fuzzy set-valued Brownian motion. *Statistics and Probability Letters* 82 (2012), pp. 827–832. (doi: 10.1016/j.spl.2012.01.011).
2. G. Aletti, E. G. Bongiorno, V. Capasso. Integration in a dynamical stochastic geometric framework. *ESAIM: Probability and Statistics*, 15 (2011) 402–416. (doi: 10.1051/ps/2010009).
1. G. Aletti, E. G. Bongiorno, V. Capasso. Statistical aspects of fuzzy monotone set-valued stochastic processes. Application to birth-and-growth processes. *Fuzzy Sets and Systems* 160 (2009), pp. 3140–3151 (doi:10.1016/j.fss.2008.12.011).

PEER-REVIEWED PUBLISHED ARTICLES: CONFERENCE PROCEEDINGS, BOOK CHAPTERS AND OTHERS

16. E. G. Bongiorno, A. M. Di Brisco, A. Goia, S. Migliorati. “Hilbert principal component regression for bimodal bounded responses”. In the “Book of Short Papers SIS2022. p. 895-900”, ISBN: 9788891932310
15. E. G. Bongiorno, A. Goia. “A parsimonious approach to represent functional data”. In the “Book of Short Papers SIS2022. p. 642-647”, ISBN: 9788891932310
14. E. G. Bongiorno, A. Goia. “Modes of variation for Lorenz Curves”. In the “Book of Short Papers SIS2022. p. 565-570”, ISBN: 9788891932310
13. Bongiorno, E.G., Goia A., Vieu P. (2020). About the Complexity Function in Small-ball Probability Factorization. In: “Functional and High-Dimensional Statistics and Related Fields”, (G.Aneiros et al. Ed.s), Springer, Cham., 2020, 27–33 (doi: 10.1007/978-3-030-47756-1\_5).
12. E. G. Bongiorno, A. Goia. “Density based classification methods for functional data”. In the “CLADAG 2017. Book of Short Papers”, (F. Greselin et al. Ed.s) Universitas Studiorum, Mantova, Italy, 2017. ISBN 9788899459710
11. Aubin, J. B., Bongiorno, E. G., Goia, A. An asymptotic factorization of the Small-Ball Probability: theory and estimates. In “Functional Statistics and Related Fields”, (G.Aneiros et al. Ed.s), Springer, Cham., 2017, 45–50 (doi: 10.1007/978-3-319-55846-2\_7).
10. Bongiorno, E. G., Goia, A., Vieu, P. On the Geometric Brownian Motion assumption for financial time series. In “Functional Statistics and Related Fields”, (G.Aneiros et al. Ed.s), Springer, Cham., 2017, 59–65 (doi: 10.1007/978-3-319-55846-2\_9).
9. Aneiros, G., Bongiorno, E. G., Cao, R., Vieu, P. An introduction to the 4th edition of the International Workshop on Functional and Operatorial Statistics. In “Functional Statistics and Related Fields”, (G.Aneiros et al. Ed.s), Springer, Cham., 2017, 1–5 (doi: 10.1007/978-3-319-55846-2\_1).
8. A. Amighini, E. G. Bongiorno, A. Goia. A clustering method for economic aggregates by using concentration curves. In “Contributions in infinite-dimensional statistics and related topics”, (E.G.Bongiorno et al. Ed.s) ESCULAPIO Pub. Co., Bologna, Italy, 2014, 25–30.
7. E. G. Bongiorno, A. Goia, E. Salinelli, P. Vieu. An Overview of IWFOSS’2014. In “Contributions in infinite-dimensional statistics and related topics”, (E.G.Bongiorno et al. Ed.s) ESCULAPIO Pub. Co., Bologna, Italy, 2014, 1–5.
6. E. G. Bongiorno, A. Goia. “A clustering method for functional data – Un metodo di classificazione per dati funzionali”. In the “Proceedings of 47th Scientific Meeting of the Italian Statistical Society”, (S.Cabras et al. Ed.s) CUEC, Cagliari, Italy, 2014.
5. E. G. Bongiorno, A. Goia. “Clustering for functional data”. In the “Proceedings of the METMA VII and GRASPA14 Conference. Torino (IT), 10-12 September 2014”.
4. G. Aletti, E. G. Bongiorno, V. Capasso. A geometric, stochastic, dynamic framework for birth-and-growth processes and statistical estimation. In Springer Series *Mathematics in Industry*, Volume *Progress in Industrial Mathematics at ECMI 2012*, (M.Fontes et al. Ed.s) CUEC, Cagliari, Italy, 2014, 371–377.
3. G. Aletti, E. G. Bongiorno, V. Capasso. A fuzzy set-valued stochastic framework for birth-and-growth process. Statistical aspects. In refereed part of *Stereology and Image Analysis. Ecs10: Proceeding of the 10th European Conference of ISS.*, (V.Capasso et al. Ed.), *The MIRIAM Project Series, Vol. 4*, ESCULAPIO Pub. Co., Bologna, Italy, 2009.

2. E. G. Bongiorno. Un processo di nascita e crescita per insiemi aleatori chiusi basato sulla somma di Minkowski. *La matematica nella Società e nella Cultura; rivista della Unione Matematica Italiana. Serie I*, Vol. 2, Numero 2 (2009), pp. 207-210.
1. E. G. Bongiorno. A birth and growth process for random closed sets based on Minkowski sum. PhD Thesis.

#### EDITORIAL ACTIVITIES

5. 04/2021 – ongoing, Associate Editor for *Computational Statistics and Data Analysis*
4. 01/2022 – ongoing, Associate Editor for *Computational Statistics*
3. “Editor” for Aneiros, G., Bongiorno, E. G., Cao, R., Vieu, P. Functional Statistics and Related Fields. In “Contribution to Statistics” Series, Springer (doi: 10.1007/978-3-319-55846-2).
2. “Editor” for “Contributions in infinite-dimensional statistics and related topics”, (E.G.Bongiorno et al. Ed.s) ESCULAPIO Pub., Bologna, Italy, 2014.
1. “Guest Editor” for Proceedings of the Workshop “Shape and Size in Medicine, Biotechnology, Materials Science and Social Sciences”, in *Image Analysis and Stereology*, 3 (2011), 133-134. (doi:10.5566/ias.v30.p133).

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### SCIENTIFIC ACTIVITIES

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#### WORKSHOP AND SEMINARS ORGANIZATION

- 17-19/12/2022 London, UK. **Scientific Programme Committee and two “Organized Sessions”**  
CMStatistics 2022.
- 23-26/08/2022, Bologna, Italy. **Local Organizing Committee and “Organized Session”**  
COMPSTAT 2022 Satellite CRoNoS Workshop on Functional Data Analysis.
- 18-20/12/2021, London, UK. **“Organized Session”**  
CMStatistics 2021.
- 23-25/06/2021, Brno, Czech Republic. **Organizing Committee**  
“Fifth International Workshop on Functional and Operatorial Statistics (IWFOS 2021)” (online)
- 14-16/04/2019, Limassol, Cyprus. **Scientific Programme Committee and “Organized Session”**  
Workshop on Multivariate Data Analysis (CRoNoS & MDA 2019).
- 31/08-02/09/2018, Iasi, Romania. **Scientific Programme Committee and “Organized Session”**  
COMPSTAT 2018 Satellite CRoNoS Workshop on Functional Data Analysis.
- 2014 – 2018, **606 “SEminari Informali DiSEI”** (Local scientific seminar).
- 16-18/12/2017, London, UK. **“Organized Session”**  
CMStatistics 2017.
- 15–17/06/2017, A Coruña, Spain. **co–Chair of “Organizing Committee”**  
“Fourth International Workshop on Functional and Operatorial Statistics (IWFOS 2017)”
- 9-11/12/2016, Seville, Spain. **“Organized Session”**  
CMStatistics 2016.
- 26-28/08/2016, Oviedo, Spain. **Scientific Programme Committee and “Organized Session”**  
COMPSTAT 2016 Satellite CRoNoS Workshop on Functional Data Analysis.
- 11-15/12/2015, London, UK. **“Organized Session”**  
CMStatistics 2015.
- 19-21/06/2014, Stresa, Italy. **“Organizing Committee”**  
“Third International Workshop on Functional and Operatorial Statistics (IWFOS 2014)”
- 16-17/02/2011, Milano, Italy. **“Local Committee”**  
“Shape and Size in Medicine, Biotechnology, Materials Science and Social Sciences”
- 22-26/06/2009, Milano, Italy. **“Managing Team”**  
“The 10th European Congress of Stereology and Image Analysis”

#### DISSEMINATION ACTIVITIES

- (*Invited Talk*). 22-25/06/2022, Caserta, Italy. “The 51st Scientific Meeting of the Italian Statistical Society”.

- (*Invited Talk*). 18-20/12/2021, London, UK. “14th International Conference of the ERCIM Working Group on Computational and Methodological Statistics (CMStatistics 2020)” (ERCIM: European Research Consortium for Informatics and Mathematics).
- (*Invited Talk*). 19-21/12/2020, London, UK. “13th International Conference of the ERCIM Working Group on Computational and Methodological Statistics (CMStatistics 2020)” (ERCIM: European Research Consortium for Informatics and Mathematics).
- (*Invited Talk*). 14-16/12/2019, London, UK. “12th International Conference of the ERCIM Working Group on Computational and Methodological Statistics (CMStatistics 2019)” (ERCIM: European Research Consortium for Informatics and Mathematics).
- (*Invited Talk*). 14-16/04/2019, Limassol, Cyprus. “Final CRoNoS meetings and Workshop on Multivariate Data Analysis”.
- (*Invited Talk*). 14-16/12/2018, Pisa, Italy. “11th International Conference of the ERCIM Working Group on Computational and Methodological Statistics (CMStatistics 2018)” (ERCIM: European Research Consortium for Informatics and Mathematics).
- (*Invited Seminar*). 22/11/2018, Pescara, Italy. Ciclo di Seminari scientifici nell’ambito delle attività del dottorato di ricerca in “Human Science”, Dip. di Scienze Filosofiche, Pedagogiche ed Economico-Quantitative, Università degli studi “G.d’Annunzio” Chieti-Pescara.
- (*Invited Talk*). 31/08 - 02/09/2018, Iasi, Romania. “Satellite Workshop of COMPSTAT 2018 on Functional Data Analysis”.
- (*Invited Talk*). 16-18/12/2017, London, UK. “10th International Conference of the ERCIM Working Group on Computational and Methodological Statistics (CMStatistics 2017)” (ERCIM: European Research Consortium for Informatics and Mathematics).
- (*Invited Talk*). 12-15/09/2017, Milan, Italy. “CLAssification and Data Analysis Group meeting (CLADAG 2017)”.
- (*Discussant for the invited session at SIS2017: “GRASPA: Analysis of complex spatial data”*). 28-30/06/2017, Florence, Italy. “Statistics and data science: new challenges, new generations (SIS2017)”.
- (*Poster*). 15-18/06/2017, A Coruña, Spain. “Forth International Workshop on Functional and Operatorial Statistics (IWFOs 2017)”.
- (*Invited Lecturer – 4h*). 8-10/04/2017, Lemesos, Cyprus. “CRoNoS Spring Course on Multivariate methods with R”. Module III: Clustering functional data.
- (*Contributed Talk*). 9-11/12/2016, Sevilla, Spain. “9th International Conference of the ERCIM Working Group on Computational and Methodological Statistics (CMStatistics 2016)” (ERCIM: European Research Consortium for Informatics and Mathematics).
- (*Invited Talk*). 26-28/08/2016, Oviedo, Spain. “Satellite Workshop of COMPSTAT 2016 on Functional Data Analysis”.
- (*Invited Talk*). 16/04/2016, Paris, France. “Forth Working groups meetings CRONOS - COST Action IC1408”.
- (*Invited Talk*). 21-25/09/2015, Vienna, Austria. “8th International Workshop on Simulation”.
- (*Invited Talk*). 6-8/12/2014, Pisa, Italy. “7th International Conference of the ERCIM Working Group on Computing & Statistics (ERCIM 2014)” (ERCIM: European Research Consortium for Informatics and Mathematics).
- (*Invited Seminar*). 06/11/2014, Torino, Italy. “ESt Lunch Seminar”, Dept. of Economics & Statistics “Cognetti de Martiis”, Università degli studi di Torino.
- (*Invited Seminar*). 23/10/2014, Oviedo, Spain. Dpto de Estadística e IO y Didáctica de la Matemática, Facultad de Ciencias, University of Oviedo.
- (*Contributed Talk*). 10-12/09/2014, Torino, Italy. “METMA VII – GRASPA14”.
- (*Grant GNAMPA - Poster*). 03-05/09/2014, Catania, Italy. “Workshop on Model-Based Clustering and Classification (MBC2)”.
- (*Poster*). 19-21/06/2014, Stresa, Italia. “Third International Workshop on Functional and Operatorial Statistics (IWFOs 2014)”.
- (*Contributed Talk*). 11-13/06/2014, Cagliari, Italia. “SIS2014” (SIS: Società Italiana di Statistica).
- (*Invited Talk*). 1-3/12/2012, Oviedo, Spain. “5th International Conference of the ERCIM Working Group on Computing & Statistics (ERCIM 2012)” (ERCIM: European Research Consortium for Informatics and Mathematics).
- (*Invited Talk*). 23-27/07/2012, Lund, Sweden. “ECMI 2012” (ECMI: European Consortium for Mathematics in Industry).
- (*Contributed Talk*). 16-17/02/2011, Milano, Italy. “Shape and Size in Medicine, Biotechnology, Materials Science and Social Sciences”

- (**Invited Talk**). 21-25/06/2010, Cagliari, Italy. “SIMAI 2010” (SIMAI: Società Italiana di Matematica Applicata e Industriale).
- (**Invited Seminar**). 10/06/2010, Torino, Italy. “Seminari di Probabilità e Statistica Matematica”. Department of Mathematics, Università degli studi di Torino
- (**Contributed Talk**). 29-31/10/2009, Limassol, Cyprus. “The Second Workshop of the ERCIM Working Group on Computing & Statistics” (ERCIM: European Research Consortium for Informatics and Mathematics).
- (**Contributed Talk**). 22-26/06/2009, Milano, Italy. “The 10th European Congress of Stereology and Image Analysis”
- (**Contributed Talk**). 22-24/04/2009, Messina, Italy. “VII International Conference. Stochastic Geometry, Convex Bodies, Empirical Measure and Applications to Mechanics Engineering of Train-Transport”
- (**Contributed Talk**). 28-29/04/2008, Milano, Italy. “Shape and Size in Medicine, Biotechnology and Materials Science”
- (**Poster**). 4-6/09/2005, Milano, Italy. “Math Everywhere (A workshop to celebrate Vincenzo Capasso’s 60th birthday)”

#### JURY MEMBER

- 11/2021, In the selection committee for a RTD-A position at Politecnico di Torino, Mathematics Department.
- 30/11/2018, Ph.D. Thesis Jury Member: *On reproducing kernel methods in functional statistics*, Candidate: Dr. Beatriz Bueno Larraz, Advisors: José Ramón Berrendero Díaz, Antonio Cuevas González, Department of Mathematics, Universidad Autónoma de Madrid

#### THESIS ADVISOR

- 2009/10 - Ph.D. Thesis Coadvisor (“Applied Mathematics” programme): *Law of Large Numbers and Central Limit Theorems for Random Geometric Measures. A computational approach*, Dr. I. Matuonto
- 2012/13 - Thesis Coadvisor (“Mathematics” Graduate programme): *Ergodicità e Misure Invarianti per processi di Markov*, Dr. C. Colombo
- 2016/17 - Thesis Coadvisor (“Management & Finance” Graduate programme): *The determinants of venture capitalists’ investment decisions an empirical investigation using the conjoint analysis*, Dr. A. Conte

#### SUMMER/WINTER SCHOOLS PARTICIPATION

- (**Grant CRONoS COST Action IC1408**). 9-12/12/2015, London, UK. “Robust methods and multivariate extremes” by A. Atkinson, M. Falk, M. Hallin, M. Riani.
- (**Grant GNAMPA**). 16-20/07/2012, Pescara, Italy. *SIPTA* (Society Imprecise Probability: Theories and Appl.) “Fifth International Summer School on Imprecise Probabilities: Theories and Applications” by A. Antonucci, F. Cozman, G. de Cooman, D. Dubois, T. Seidenfeld, S. Doria, E. Quaeghebeur, E. Miranda.
- (**Grant SMI**). 03-16/07/2011, Cortona, Italy. *SMI* (Scuola Matematica Interuniversitaria) “Stochastic Numerical Methods of Finance” by E. Platen and W. Runggaldier.
- (**Doctoral Program**) 14-18/11/2005, Paris, France. *École des Mines de Paris* “Models of Random Structures” by D. Jeulin.
- (**Grant CIME**). 13-18/09/2004, Martina Franca, Italy. *CIME* (International Mathematical Summer Center) “Stochastic Geometry” by A. Baddeley, I. Barany, R. Schneider, W. Weil

#### MEMBERSHIPS

- Bernoulli Society 2010 - ongoing
- CMStatistics - ISDA: Imprecision in Statistical Data Analysis. 2014 - ongoing
- GNAMPA (Gruppo Nazionale per l’Analisi Matematica, la Probabilità e le loro Applicazioni) - INdAM (Istituto Nazionale di Alta Matematica). 2008 - ongoing
- ISI (International Statistical Institute) 2010 - ongoing
- SIPTA (The Society for Imprecise Probability: Theories and Applications). 2012 - ongoing
- SIS (Società Italiana di Statistica). 2013 - ongoing
- UMI (Unione Matematici Italiani). 2015 - ongoing

## OTHER SCIENTIFIC ACTIVITIES

- Reviewer for international journals: *Advances in Data Analysis and Classification*, *The Annals of Statistics*, *Computational Statistics*, *Computational Statistics and Data Analysis*, *TEST*, *Journal of Multivariate Analysis*, *Journal of the Royal Statistical Society: Series C*, *Statistics and Probability Letters*, *International Journal of Mathematics and Statistics*, *Fuzzy Sets and Systems*, *Behaviourmetrika*, *Iranian Journal of Fuzzy Systems*, *Journal of the Franklin Institute*, *Image Analysis and Stereology*.
- 2014 - 2019. Scientific committee: *XlaTangente online - percorsi nella matematica (rivista trimestrale di matematica edita da Università degli Studi di Milano – Centro “matematita”)*  
<http://www.xlatangente.it/>
- Contribution in the Exercise parts of “*An Introduction to Continuous–Time Stochastic Processes. (Theory, Models and Applications to Finance, Biology and Medicine)*”, Capasso Vincenzo, Bakstein David, Springer (2004)
- 2009 - 2011: Research collaborator for the high school project: “*Math en Jeans*” organized by “matematita”: <http://www.matematita.it/>.
- 2013 Collaboration with: *XlaTangente - percorsi nella matematica (rivista bimestrale di matematica edita da Kangourou Italia)* <http://www.xlatangente.it/>
- Graphical designer and technical writer “*Industry Days 2003-2004*”, (D.Aquilano et al. Eds), Vol. 2, The MIRIAM Project, Esculapio, Bologna, (2005).

## TEACHING ACTIVITIES

### UNIVERSITÀ DEL PIEMONTE ORIENTALE

- “*Statistica*” in Italian Lecturer  
Undergraduate Program in Business Economics, (CLEA, year 1, >250 students per y.) 2012 - ongoing
- “*Statistica Applicata*” in Italian Lecturer  
Undergraduate Program in Business Economics, (CLEA, year 3) 2013 - ongoing
- “*Computational Statistics*” in Italian Lecturer  
Graduate Program in Digital Innovation and Artificial Intelligence, (year 1) 2018 - 2019, 2022 - ongoing
- “*Metodi Statistici per l’Impresa*” in Italian Lecturer  
Graduate Program in “Amministrazione, Controllo e Professione”, (year 2) 2019 -2022

### UNIVERSITÀ DEGLI STUDI DI MILANO

- “*Calcolo Stocastico e Applicazioni*” in Italian and English Laboratory Lecturer  
Mathematics Graduate Program (year 4) 2010-12
- “*Statistica dei Processi Aleatori*” in Italian and English Lecturer assistant  
Mathematics Graduate Program (year 4) 2006-07, 2011-12
- “*Statistica Matematica 1*” in Italian Lecturer assistant  
Mathematics Graduate Program (year 4) 2008-09
- “*Quantitative Methods (Probability part)*” in English Lecturer assistant  
“Economics and Political Sciences” and “International Economics and Finance” (year 1) 2010-12
- “*Mathematics*” in English Lecturer assistant  
“Economics and Political Sciences” and “International Economics and Finance” (year 1) 2009-13
- “*Matematica per l’economia e la finanza*” in Italian Lecturer assistant  
Undergraduate program in European Economy (year 1) 2011-12
- “*Azzeramento (Trigonometria)*” in Italian, Lecturer  
Undergraduate program in Mathematics, 2007-08
- “*MINIMAT e Matematica Assistita*” in Italian Lecturer  
Undergraduate program in Natural Science 2007-08

### POLITECNICO DI MILANO

- “*Metodi Analitici e Statistici (Prob. e Stat.)*” in Italian Lecturer assistant  
Undergraduate program in Physics Engineering (year 1) 2010-12
- “*Analisi Matematica I e Geometria*” in Italian Lecturer assistant  
Undergraduate program in Industrial Engineering (year 1) 2007-09

### UNIVERSITÀ DEGLI STUDI DI MILANO–BICOCCA

- “*Matematica per le Scienze Sociali*” in Italian Lecturer assistant  
Undergraduate program in Sociology (year 1) 2005-06

### SILSIS - HIGH SCHOOL TRAINING TEACHING “A059 SPECIALE”

**Sezione di Milano**

- “ <i>Statistica di Base</i> ” in Italian	Lecturer	2006-07
- “ <i>Geometria</i> ”, “ <i>Aritmetica</i> ” in Italian	Tutor	2006-07

OTHER TEACHING ACTIVITIES

- 2001-04, High school math tutoring and excellence courses, Liceo Scientifico G.B.Vico, Corsico (MI)

TEACHING PROGRAMS AND GRANTS (FUNDED BY COMPETITIVE SELECTION)

- 2016. (8000 €) **Funded**  
 “Free-mover Action 2016-17” linked to “Statistica Applicata”,  
**Granted** by *Università del Piemonte Orientale*
- 2017. (5000 €) **Funded**  
 “Free-mover Action 2017-18” linked to “Statistica Applicata”,  
**Granted** by *Università del Piemonte Orientale*

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REFERENCES

- Prof. Aldo Goia (aldo.goia@uniupo.it). Università del Piemonte Orientale, Department of Studies in Economics and Business.
- Prof. Giacomo Aletti (giacomo.aletti@unimi.it). Università degli Studi di Milano, Dipartimento di Scienze e politiche ambientali.
- Prof. Vincenzo Capasso (vincenzo.capasso@unimi.it). Università degli Studi di Milano, Dipartimento di Matematica.
- Prof. Ana Colubi (colubi@uniovi.es). University of Oviedo, Department of Statistics.

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ADDITIONAL SKILLS AND EXPERIENCE (SELF-ASSESSMENT)

*Foreign Languages:* **English:** written(B1-Fair), reading(B2-Good), listening(B1-Fair), speaking(B1-Fair).

*Mathematical and Statistical Software:* **Matlab, R, SAS, GeoGebra.**

*Programming language:* **C, JAVA** (Basic knowledge).

*Other Software:* **L<sup>A</sup>T<sub>E</sub>X, Microsoft Office, Open Office, Autocad.**

*Operating System:* **Windows** (Good), **Linux**(Fair).