

# CURRICULUM VITAE di:

Nominativo	Alessandro Fassò
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## Posizione accademica

Macrosettore:	13/D
Settore Concorsuale:	13/D1
Settore Scientifico Disciplinare:	SECS-S/02
Qualifica:	PO
Anzianità nel ruolo:	PO dal 01-11-2000
Sede Universitaria:	Università degli studi di Bergamo
Struttura di afferenza (dipartimento o altro)	Dipartimento di Ingegneria gestionale, dell'informazione e della produzione

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	Fascia	Ateneo
1996-2000	2° fascia	Università degli studi di Bergamo
1987-1996	Ricercatore	Università Cattolica SC di

## Pubblicazioni Scientifiche

n. progr.	anno	Descrizione pubblicazione
1		Si veda allegato
2		
3		
...		

## Titoli

- Direzione di enti o istituti di ricerca di alta qualificazione internazionale:
  - 2007-2012 Direttore dipartimento di Ingegneria dell'informazione e metodi matematici.
- Responsabilità scientifica generale o di unità (work package, unità nazionale nei progetti europei o locale in quelli nazionali ecc.) per progetti di ricerca internazionali e nazionali ammessi al finanziamento sulla base di bandi competitivi che prevedano la revisione tra pari:
  - 2015-2018: GAIA-CLIM, Horizon 2020 EO-3, Local PI
- Direzione o partecipazione a comitati di direzione di riviste Scopus/WOS o classificate da ANVUR, nonché di collane editoriali, encyclopedie e trattati di riconosciuto prestigio nel settore:
  - Editor of the Chilean Journal of Statistics.
  - Associate Editor of Stochastic Environmental Research and Risk Analysis (SERRA)
  - Associate Editor of Advances in Statistical Analysis (AStA).
  - Guest Editor of Environmetrics (2007), Advances in Statistical Analysis (AStA, 2013), Stochastic Environmental Research and Risk Analysis (SERRA, 2015) and Statistical Methods & Applications (SMAP, 2016).
- Partecipazione al collegio dei docenti nell'ambito di dottorati di ricerca accreditati dal Ministero:
  - 1999-2012: Dottorato in Statistica Università Bicocca
  - 2014-2017: Dottorato Analytics, Economics and Business Università di Bergamo
  - 2017: Dottorato in Ingegneria e scienze applicate, Università di Bergamo
- partecipazione come relatore a convegni di carattere scientifico nazionali o internazionali:
  - Keynote speaker: XIII biannual congress SIMAI 2016, keynote address on "Advanced statistical applications of complex data indexed in space and time", Milano, 14-09-2016;
  - EURISBIS'09, European Regional Meeting of the International Society for Business and Industrial Statistics, keynote address on "Data diversity in air quality monitoring and dynamical mapping using the EM algorithm and air quality indexes", Cagliari, 03-06-2009.
  - Invited speaker at French Statistical Society Conference 2016, Montpellier, at Statistische Woche 2015, Hamburg and many others.
  - International lecturer: ECAS-ENBIS Summer school on Multivariate spatio-temporal methods for large datasets. 10-09-2017, Procida, Italy.
- Winter school on "Stochastic models for spatio-temporal data: Inference and applications" at XI. Workshop Stochastic Models and their Applications, Hamburg 20-22 February 2013.
- Short course at Cairo University on Spatio-Temporal Modeling for Environmental Data at 25th International Conference on Statistical Modelling, 25-28 March, 2013.
- Conference Organizer, scientific committee, invited speaker and invited session organizer in a number of international conferences. In particular recent appointments are: Chair of GRASPA2015 (Bari), METMA-GRASPA 2014 (Torino), GRASPA 2004 (Dalmine). Scientific committee member of Spatial Econometrics Association 2016, Rome, of TIES2016, Edinburgh, of TIES2015, Al Ain, of TIES2009, Bologna. Session organizer at SIS Scientific meeting 2014, Cagliari, at SIS Statistical Conference 2013, Brescia, Statistische Woche 2012, Vienna.
- direzione o partecipazione a gruppi di ricerca, nazionali o internazionali, legati a università ovvero a qualificate istituzioni pubbliche o private:
  - 2013-2015 Coordinatore di GRASPA, Gruppo permanente SIS per la statistica ambientale

data

30-11-2017

firma

Alessandro Fossi



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**PUBLICATIONS of A. FASSÒ**  
periodo 2002-2017

- [1] Porcu E, Fassò A, Barrientos S, Catalan PA (2017) Seismomatics. *Stoch Environ Res Risk Assess* (2017) 31:1577–1582. DOI 10.1007/s00477-017-1395-y
- [2] Weatherhead, E., G. Bodeker, A. Fassò, K. Chang, J. Lazo, C. Clack, D. Hurst, B. Hassler, J. English, and S. Yorgun (2017) Spatial Coverage of Monitoring Networks: A Climate Observing System Simulation Experiment. *J. Appl. Meteor. Climatol.* doi:10.1175/JAMC-D-17-0040.1, in press.
- [3] Fassò A, Finazzi F, Ndongo (2016) European population exposure to airborne pollutants based on a multivariate spatio-temporal model. *Journal of Agricultural, Biological, and Environmental Statistics*. 21:492. Online first doi:10.1007/s13253-016-0260-7
- [4] Fassò A, Toccu M, Magno M. (2016) Functional Control Charts and Health Monitoring of Steam Sterilizers. *Quality and Reliability Engineering International*. 32(6), 2081-2091. DOI: 10.1002/qre.2035.
- [5] Finazzi F, Fassò A. (2016) A statistical approach to crowdsourced smartphone-based earthquake early warning systems. *Stochastic Environmental Research and Risk Assessment*. Online first. DOI: 10.1007/s00477-016-1240-8.
- [6] Fassò A, El-Shaarawi A, Ranalli MG, (2016) Advanced methods for space-time environmental data. *Statistical Methods & Applications*. 25(1), 1-4. DOI 10.1007/s10260-015-0347-2.
- [7] Bevilacqua M, Fassò A, Gaetan C, Porcu E, Velandia D. (2016) Covariance tapering for multivariate Gaussian random fields estimation. *Statistical Methods and Applications*. 25(1), 21-37. DOI 10.1007/s10260-015-0338-3.
- [8] Fassò A. (2015) Sensitivity Analysis of Computer Models. *Wiley StatsRef: Statistics Reference Online*. 1–12. DOI: 10.1002/9781118445112.stat07199.pub2.
- [9] Calculi C, Fassò A, Finazzi F, Pollice A, Turnone A. (2015) Maximum likelihood estimation of the multivariate hidden dynamic geostatistical model with application to air quality in Apulia, Italy. *Environmetrics*. 26(6), 406–417.
- [10] Finazzi F, Haggarty R, Miller C, Scott M, Fassò A (2015) A comparison of clustering approaches for the study of the temporal coherence of multiple time series. *Stochastic Environmental Research and Risk Assessment*. Volume 29, Issue 2, 463-475.
- [11] Fassò A., Porcu E. (2015) Latent variables and space-time models for environmental problems. *Stochastic Environmental Research and Risk Assessment*. Volume 29, Issue 2, 323-324.
- [12] Ignaccolo R., Franco-Villoria M., Fassò A. (2015) Modelling collocation uncertainty of 3D atmospheric profiles. *Stochastic Environmental Research and Risk Assessment*. 29 (2), 417-429.
- [13] Fassò A, Finazzi F, Mahaki B, Rabiei K. (2014) Statistical analysis of water policies, air quality and climate in Isfahan. In: Proceedings of the METMA VII and GRASPA14 Conference. Torino (IT), 10-12 September 2014. Torino, Italy, 10-12 September 2014. <http://meetings.sis-statistica.org/index.php/graspametma14/metma7graspa14/paper/viewFile/3153/554>



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- [14] Finazzi F, Fassò A. (2014) Earthquake monitoring using volunteer smartphone-based sensor networks. In: Proceedings of the METMA VII and GRASPA14 Conference. Torino (IT), 10-12 September 2014. Torino, Italy, 10-12 September 2014.  
<http://meetings.sis-statistica.org/index.php/graspametma14/metma7graspa14/paper/viewFile/3203/573>.
- [15] Finazzi F, Fassò A. (2014) D-STEM: A Software for the Analysis and Mapping of Environmental Space-Time Variables. *Journal of Statistical Software*. Vol. 62, Issue 6, 1-29.
- [16] Calculli C, Fassò A, Finazzi F, Pollice A, Turnone A. (2014) Multivariate hidden dynamic geostatistical model for analysing and mapping air quality data in Apulia, Italy. In: Proceedings of the METMA VII and GRASPA14 Conference. Torino (IT), 10-12 September 2014. Torino, Italy, 10-12 September 2014.  
<http://meetings.sis-statistica.org/index.php/graspametma14/metma7graspa14/paper/viewFile/3193/553>  
*Working papers GRASPA*, 48. <http://aisberg.unibg.it/handle/10446/31200>
- [17] Fassò, A, Ignaccolo, R, Madonna, F, Demoz, B. and Franco-Villoria M. (2014) Statistical modelling of collocation uncertainty in atmospheric thermodynamic profiles, *Atmos. Meas. Tech.*, 7, 1803–1816, doi:10.5194/amt-7-1803-2014. <http://www.atmos-meas-tech.net/7/1803/2014/amt-7-1803-2014.pdf>
- [18] Fassò A., Finazzi F. (2014) Model based distribution of human exposure to airborne particulate matters. Proceedings of International Conference on Atmospheric DUST. Castellaneta Marina, June 1-6 2014. p. 129. ISBN 978-88-7522-095-2.
- [19] Fassò A., (2013) Statistical assessment of air quality interventions. *Stochastic Environmental Research and Risk Assessment*. Volume 27, Issue 7, pp 1651-1660. On-line first DOI: 10.1007/s00477-013-0702-5.
- [20] Fassò A., (2013) Space-time statistical methods and optimization for energy and environmental problems. *Statistica & Applicazioni*. Special Issue. 3-6. <http://www.vponline.it/riviste/statisticaeapplicazioni/2013/2/>
- [21] Fassò A. (2013). Traffic policies and air quality in Italian cities. *Proceedings of the 28th International Workshop on Statistical Modelling*, Muggeo VMR, Capursi V, Boscaino G, Lovison G, Ed.s. Vol.2, 585-589. ISBN 978-88-96251-49-2.
- [22] Fassò A., Finazzi F. (2013) A varying coefficients space-time model for ground and satellite air quality data over Europe. *Statistica & Applicazioni*. Special Issue. 45-56. <http://www.vponline.it/riviste/statisticaeapplicazioni/2013/2/>
- [23] Fassò A, Pollice A, Cafarelli B (2013). Spatial statistics for environmental studies. *AStA Advances in Statistical Analysis*: Vol. 97, Issue 2, Page 89-91
- [24] Finazzi F, Fassò A (2013). EM estimation of a multivariate space-time data fusion model with varying coefficients. *Working papers GRASPA*, 47. <http://aisberg.unibg.it/handle/10446/27548>.
- [25] Finazzi F, Scott M.E, Fassò A. (2013). A model based framework for air quality indices and population risk evaluation. With an application to the analysis of Scottish air quality data. *Journal of the Royal Statistical Society, series C*. Vol.62(2): 287-308. DOI: 10.1111/rssc.12001.
- [26] Gardiner T., Madonna F., Wang J., Whiteman D.N., Dykema J., Fassò A., Thorne P., Bodeker G. (2013) Sampling and Measurement Issues in Establishing a Climate Reference



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- Upper Air Network. *AIP Conf. Proc.* 1552, pp. 1066-1071; doi:<http://dx.doi.org/10.1063/1.4821422>.
- [27] Ignaccolo R., Fassò A. (2013) Iterative estimation of the Heteroskedastic Functional Regression Model with application to atmospheric data. Proceedings of SCo2013, Politecnico di Milano. ISBN:97888-6493-019-0.
- [28] Thorne P. W, Vömel H, Bodeker G, Sommer M, Apituley A, Berger F, Bojinski S, Braathen G, Calpini B, Demoz B, Diamond H. J, Dykema J, Fassò A, Fujiwara M, Gardiner T, Hurst D, Leblanc T, Madonna F, Merlone A, et al. (2013) GCOS reference upper air network (GRUAN): Steps towards assuring future climate records. *AIP Conf. Proc.* 1552, pp. 1042-1047; doi:<http://dx.doi.org/10.1063/1.4821421>
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- [30] Fassò A. (2012) Air quality impact assessment of traffic policy in Milan. Working papers GRASPA, 46, 1-19. [www.graspa.org](http://www.graspa.org), ISSN: 2037-7738.
- [31] Fassò A (2012). La congestione migliora la qualità dell'aria ? *Statistica & Società*. Vol 1, n.3, 30-32. ISSN: 1722-8506.
- [32] Fassò A. (2012). Sensitivity analysis of computer models in *Encyclopedia of Environmetrics Second Edition*, A.-H. El-Shaarawi and W. Piegorsch (eds). John Wiley & Sons Ltd, Chichester, UK, pp. 2420-2427. DOI 10.1002/9780470057339.vas015.pub2.
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- [34] A. Fassò and G. Arduino (2012). Environmental regulation in the European Union in *Encyclopedia of Environmetrics Second Edition*, A.-H. El-Shaarawi and W. Piegorsch (eds). John Wiley & Sons Ltd, Chichester, UK, pp. 886-889. DOI: 10.1002/9780470057339.vnn014.
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- [36] F. Finazzi, M.E. Scott, A. Fassò (2012). A statistical framework for model based air quality indicators and population risk evaluation. Working papers GRASPA, 43, 1- 26. [www.graspa.org](http://www.graspa.org), ISSN: 2037-7738.
- [37] Fassò A, Finazzi F, (2011) Maximum likelihood estimation of the dynamic coregionalization model with heterotopic data. *Environmetrics*. Vol. 22:6, 735-748. Online ISSN: 1099-095X. Published Online. DOI:10.1002/env.1123.
- [38] Fassò A, Finazzi F, Bevilacqua M (2011) Tapering spatio temporal models. In Cafarelli Ed. (2011) *Spatial Data Methods for Environmental and Ecological Processes – 2nd Edition*, Foggia, Sept. 1-2, 2011. ISBN: 978-88-96025-12-3. Anche in Graspa WP-2011, [www.graspa.org](http://www.graspa.org), ISSN: 2037-7738.
- [39] F. Finazzi, A. Fassò (2011). EM estimation of the Dynamic Coregionalization Model with varying coefficients. In Cafarelli Ed. (2011) *Spatial Data Methods for Environmental and*



## UNIVERSITÀ DEGLI STUDI DI BERGAMO

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*Ecological Processes – 2nd Edition*, Foggia, Sept. 1-2, 2011. ISBN: 978-88-96025-12-3.  
Also in: Graspa WP-2011, [www.graspa.org](http://www.graspa.org), ISSN: 2037-7738.

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- [41] Finazzi F., Fassò A. and Scott M.E. (2011) The dynamic coregionalization model in air quality risk assessment. *Proceedings of the 58th World Statistics Congress (ISI2011)*. Dublin, 21-26 August, 2011. <http://isi2011.congressplanner.eu/>. CPS029: Spatial Statistics and its Applications 1.
- [42] F. Finazzi, M.E. Scott, A. Fassò (2011). A multivariate space-time model for heterogeneous air quality networks. In Conesa et al. (Ed's. 2011) *Proceedings of the 26<sup>th</sup> International Workshop on Statistical Modelling*. Valencia 11-15 July 2011. ISBN:978-84-694-5129-8.
- [43] S. Padoan, A. Fassò (2011). Multivariate and Spatial Extremes for the Analysis of Air Quality Data. In Cafarelli Ed. (2011) *Spatial Data Methods for Environmental and Ecological Processes – 2nd Edition*, Foggia, Sept. 1-2, 2011. ISBN: 978-88-96025-12-3.  
Also in Graspa WP-2011, [www.graspa.org](http://www.graspa.org), ISSN: 2037-7738.
- [44] Fassò A, Finazzi F, (2010) ‘Bayesian source detection and parameter estimation of a plume model based on sensor network measurements’ by C. Huang et al.: Discussion. *Appl. Stochastic Models Bus. Ind.* Vol. 26. 349–352. Online ISSN: 1526-4025. DOI: 10.1002/asmb.855.
- [45] Fassò A, Finazzi F, (2010) The dynamic coregionalization model with application to air quality remote sensing. A. Bowman (Ed.). *Proceedings of International Workshop on Statistical Modelling 2010*. Glasgow, July 5-9th 2010, pp 195-200. Working Paper GRASPA n. 42, [www.graspa.org](http://www.graspa.org). ISSN: 2037-7738.
- [46] Fassò A, Finazzi F, (2010) Statistical mapping of air quality by remote sensing: Uncertainty and sensitivity to missing data. *Proceedings of Accuracy 2010: the 9<sup>th</sup> Int. Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences*. Leicester, 20-23 July 2010.
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- [48] Fassò, A, Cameletti M. (2010) A unified statistical approach for simulation, modeling, analysis and mapping of environmental data. *Simulation: Transactions of the Society for Modeling and Simulation International*. Vol. 86, 3, pp 139–154. ISSN: 0037-5497. Online published on June 29, 2009 as doi:10.1177/0037549709102150.
- [49] Fassò. A. (2009) Managing data diversity in air quality monitoring and dynamical mapping. Working Paper n.16/MS – 2009. Dipartimento Ingegneria dell'Informazione e Metodi Matematici, Università di Bergamo ([www.unibg.it](http://www.unibg.it)).
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Dipartimento di Ingegneria gestionale,  
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- [51] Fassò A, Finazzi F, D'Ariano C. (2009b). Integrating satellite and ground level data for air quality monitoring and dynamical mapping. GRASPA Working Paper n.34. ([www.graspa.org](http://www.graspa.org)). EURISBIS 2009. Cagliari, May 30 – June 3. ISBN: 978-88-89744-13-0.
- [52] A. Fassò. (2009) Multivariate hierarchical statistical detectors for health surveillance and diagnostics with example of a cable stayed bridge. Working Paper n.14/MS - 2009, Dipartimento Ingegneria dell'Informazione e Metodi Matematici, Università di Bergamo ([www.unibg.it](http://www.unibg.it)).
- [53] Fassò A, Finazzi F, Pezzetti G, Lamperti R. (2009) Statistical monitoring of high speed railways. Proceedings di Geoitalia 2009, Rimini 3-11 settembre 2009. Epitome, 3/2009. ISSN 1972-1552.
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- [56] Nicolis O, Fassò A, Mannarini G. (2008). Modellizzazione spazio-temporale di PM10 nella Pianura Padana utilizzando misure da satellite AOT. PM2008, Bari 6-8 ottobre 2008. Atti del 3° Convegno Nazionale sul Particolato Atmosferico.
- [57] Bodnar O, Cameletti M, Fassò A, Schmid W. (2008) Comparing air quality in Italy, Germany and Poland using BC indexes. *Atmospheric Environment*. Volume 42, Issue 36, November 2008, Pages 8412-8421.
- [58] Fassò A, Pezzetti G. (2008) Statistical monitoring of concrete structures and cable-stayed bridges. On *Bridge Maintenance, Safety, Management, Health Monitoring and Informatics* Koh & Frangopol (eds), pp 1144-1151, ISBN 978-0-415-46844-2.
- [59] Fassò A. (2007) Statistical sensitivity analysis and water quality. In Wymer L. Ed, *Statistical Framework for Water Quality Criteria and Monitoring*. Wiley, New York. 211-230. ISBN: 978-0-470-03372-2. Also in GRASPA Working Paper n.23. ([www.graspa.org](http://www.graspa.org)).
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- [62] Fassò, A, Cameletti M. (2007), The EM algorithm for air quality spatio-temporal models. *Risk and Prediction, Proceedings of 2007 Intermediate Conference of the Italian Statistical Society*, Venezia 6-8 June 2007. 621-622, Cleup, Padova. ISBN: 978-88-6129-093-8.
- [63] Bertaccini, P, Cameletti, M. and Fassò, A.; (2007): "Urban Mobility and Atmospheric Pollution within the Torino Metropolitan Area. *Risk and Prediction, Proceedings of 2007*



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*Intermediate Conference of the Italian Statistical Society*, Venezia 6-8 June 2007. 607-608, Cleup, Padova. ISBN: 978-88-6129-093-8.

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- [65] Fassò, A, Cameletti M. and Bertaccini P, (2007) Uncertainty decomposition in environmental modelling and mapping. *Proceedings of "2007 Summer Computer Simulation Conference (SCSC'07)"*, July 15-18, 2007, San Diego. ISBN: 1-56555-316-0.
- [66] Fassò A, Locatelli S. (2007) Asymmetric Monitoring of Multivariate Data with Nonlinear Dynamics. *AStA - Advances in Statistical Analysis*. Vol.91:1, 23-37.
- [67] Fassò A, Jona Lasinio G. (2007). Statistics for Environmental Decisions, *Environmetrics*, Vol.18, n.3.
- [68] Fassò A, Cameletti M. and Nicolis O. (2007). Air quality monitoring using heterogeneous networks, *Environmetrics*, Vol.18:3, 245-264.
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- [75] Fassò A, Nicolis O. and Cameletti M. (2005) A statistical approach to heterogeneous monitoring networks. ECOMONDO 2005, Rimini 26-29 ottobre 2005, Atti dei seminari Vol.2, 629-636, Maggioli Editore.
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