PERSONAL INFORMATION

Marco Riani

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- mriani@unipr.it
- http://www.riani.it
- skype mriani

Sex M | Date of birth 01/04/1967 | Nationality Italian

WORK EXPERIENCE

November 2006 - Present

Full Professor of Statistics
University of Parma

- Teaching and Research in Statistics and Informatics. Teaching has concerned courses at graduate, post graduate and PhD level. Supervisor of PhD students (two of them, namely Tiziano Bellini now at HSBC bank and Francesca Torti now at the Joint Research Centre of the European Commission won the prize for the best Italian PhD thesis in statistics)

November 1999 – October 2006

Associate Professor of Statistics
University of Parma

- Teaching and Research in Statistics and Informatics

October 1998 – October 1999

Lecturer in Statistics

University of Parma

- Research in Statistics

March 1996 – September 1998

Post Doctoral Fellow in Statistics
University of Parma

- Research in Statistics

EDUCATION AND TRAINING

January 1992 – October 1995

PhD in Applied Statistics. Thesis title "Structural Analysis of Time Series"
Department of Statistics, University of Florence, Italy

November 1985 – October 1990

Bachelor of Science in Economics
University of Parma, Italy

- Final mark: 110/110 cum laude
Subjects Included:
- Quantitative Economics, Statistics, Applied Maths, Financial Maths

PERSONAL SKILLS

Mother tongue(s)   Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
C2	C2	C2	C2	C2

	Replace with name of language certificate. Enter level if known.				
Spanish	B1	B1	B1	B1	B1
	Replace with name of language certificate. Enter level if known.				

Communication skills	▪ Excellent communication skills gained through my experience as teacher of Statistics and/or speaker in national and international meetings. Experienced at giving presentations to large audiences
Honours	▪ February 1997. Winner of the prize for the best Italian PhD thesis in Statistics (VII programme). ▪ June 2016. Winner of the prize for the best contribution in MATLAB expo 2016 in Milan.

Organisational / managerial skills

Excellent organisational and prioritisation skills.

Example:

- 2016 – Now Director of the Interdepartmental center Ro.S.A.— ROBUST STATISTICS FOR BIG DATA CENTRE of the University of Parma (http://rosa.unipr.it).
- 2018 – Now Member of the Mathworks advisory board.
- 2015 – 2019 Member of the Steering Committee of the SIS CLADAG (Classification and Data Analysis Group of the Italian Statistical Society).
- 2012 – Now Member of the board of the PhD programme in Statistics and Financial Mathematics, University of Milan Bicocca, Italy.
- 2005 – Now. Member of the Steering Committee of ICORS (International Conference of Robust Statistics).
- 2001– Now. Scientific coordinator of the module "Advanced personal computing" of the "Marketing Management Master" organized by the University of Parma jointly with financial Italian newspaper "Il Sole 24 Ore.
- 2014 – Now. Scientific coordinator of the module "Informative systems and statistics tools for market management" of the master in Agribusiness and Food Management organized by the University of Parma.
- 2010 – 2014 Member of board of the PhD programme in Statistics, University of Milan Bicocca.
- 2007-2010. Vice-president of the Centre for Computing and Librarian Services of Parma University.
- 2004-2007. Member of the Steering Committee of the ANSET workgroup of the Italian Statistical Society.
- 2004-2006. Member of the Steering Committee of the European Science Foundation (ESF) financed project "Statistical Analysis of Complex Data with Robust and Related Statistical Methods (SACD)
- 2001-2004. Vice-president of the Computing Laboratory Resources of the Faculty of Economics of the University of Parma.

National and international grants (as Principal Investigator)

- 2014- 2019 principal investigator of the Department of Economics of the University of Parma of the financed project HORIZON 2020 635761-2-PrimeFish-H2020-BG-2014-10.
- 2017 - 2020 principal investigator of the research unit of the Univ. di Parma of the INAIL project "Development of activities for the management of first help activities inside work environments
- 2016 - 2017 principal investigator of the research unit of the Univ. di Parma of the INAIL project "development of a portal for the evaluation of the risks in restricted or polluted work environments".
- 2013 - 2016: Principal investigator of the research unit of Parma of the Italian Ministry of Education and Research project "Multivariate Analysis of Risk Assessment".
- 2009 - 2012: Main principal investigator of the Italian Ministry of Education and Research project "New Robust Methods for the Analysis of Complex Data".
- 2008 - 2011: Italian coordinator of the joint bilateral project Italy Spain "Robust methods for the classification and forecasts of multivariate data".
- 2006 - 2008: Principal investigator of the research unit of Parma of the Italian Ministry of Education and Research project "Sensitivity Analysis and impact assessment: applications to the decisions of local municipalities".
- 2004 - 2006: Principal investigator of the research unit of Parma of the Italian Ministry of Education and Research project "Parametric and non parametric forecasts of economic time series".
- 2003 - 2004: Director of the financed research "Evaluation of the performance of the Italian Universities". Italian National University Evaluation Committee.

- 2002 - 2004: Principal investigator of the research unit of Parma of the Ministry of Education and Research project "Statistical Inference on the dynamics of observed time series"
- 2000 - 2002: Principal investigator of the research unit of Parma of the Italian Ministry of Education and Research project "Linearity and non linearity in the analysis of economic time series".

Advanced statistics teaching in meetings	**Course organized by the *ICT COST Action (European Cooperation in Science and Technology)*** 2015 December. London, UK. Robust Methods in Statistics **Course organized by the American Statistical Society** 2001 August, Atlanta, Georgia, USA. Robust Diagnostic Data Analysis", Continuing Education Series JSM2001, **Courses organized by the Italian Statistical Society** 2004 September 20-24 "Modern Approaches to the robust analysis of multidimensional data" 2006 September 11-15 "New approaches to the analysis of multidimensional data 2010 September 20-24 "Robust multivariate methods for the analysis of Economic Data". **Course organized by CLADAG** 2018 April 9-13 Robust Statistics: Foundations And Recent Developments, Milan.
Experience in the coordination/participation of EU projects	▪ 2016-2020 – External expert in the project Automated Monitoring Tool on External Trade, step 5 (AMT5), Joint Research Centre of the European Commission. ▪ 2012-2013 – External expert in the project Automated Monitoring Tool on External Trade, step 4 (AMT4), Joint Research Centre of the European Commission. ▪ 2009-2010 – External expert in the project Automated Monitoring Tool on External Trade, step 3 (AMT3), Joint Research Centre of the European Commission. ▪ 2004 - 2006: Member of the steering committee of the ESF financed research project "Statistical Analysis of Complex Data with Robust and Related Statistical Methods (SACD)". ▪ 2000 - 2002: Principal investigator of the research unit of Parma of the tender in "HelpDesk Time Series Analysis in Official Statistics". Service supplied for the shared-cost action funded within the Information Society line of 5th Framework Program (BUSY project FP5-IST-12654 Y).
Released software	▪ 2017- Now Coauthor of the R package fsdaR. https://cran.r-project.org/web/packages/fsdaR/index.html ▪ 2012 – Now. Coauthor of the Matlab toolbox FSDA™. Software owned jointly by the University of Parma and the Joint Research Centre of the European Commission (Riani, Perrotta, and Torti 2012 Chemometrics and Intelligent Laboratory Systems, Riani, Perrotta and Cerioli, 2015, Journal of Statistical Software). This new software library, which extends MATLAB® and statistics toolbox® to support a robust and efficient analysis of complex datasets, affected by different sources of heterogeneity, is freely downloadable from Mathworks file exchange (https://www.mathworks.com/matlabcentral/fileexchange/72999-fsda). The FSDA toolbox is protected by a European Union Public Licence (EUPL). The github repo is at https://uniprjrc.github.io/FSDA/ ▪ 2001 – 2010 "Fwd library", (with K. Konis from Insightful) SPLUS Gui software which implements the routines described in the book: Robust Diagnostic Regression Analysis, by Anthony C. Atkinson and Marco Riani. The software can be downloaded from the following web address: http://www.riani.it/ar.
Member of the scientific committee of international conferences	▪ CLADAG2021- Member of scientific committee of the meeting CLADAG 2021, University of Florence, Italy, September 2021. ▪ SMPS2020- Member of the scientific committee of the 10th International Conference on Soft Methods in Probability and Statistics, Valladolid, Spain, September 2020 ▪ SIS2020 Member of the scientific committee of the 50th Meeting of the Italian Statistical Society, Cagliari, June 2020 ▪ Workshop on Statistical Models and Methods for Complex Data, Benevento, Italy, June 2019. ▪ CMStatistics 2018- Co-chair of the 11th International Conference of the ERCIM WG on

Computational and Methodological Statistics. Pisa. December 2018
- CMStatistics 2017- Member of the scientific committee of the 10th International Conference of the ERCIM WG on Computational and Methodological Statistics. London December 2017
- Shroud Conference 2017- Member of the scientific committee of International Conference on the Shroud of Turin, July, Pasco, Washington State, USA.
- ERCIM'14 – Member of the scientific committee of the 7th International Conference of the ERCIM WG on COMPUTING & STATISTICS, Pisa, Italy, December, 2014.
- SIS2014 – Member of the scientific committee of the XLVII Meeting of the Italian Statistical Society, Cagliari, June 2014
- ERCIM'13 – Member or the scientific committee of the 6th International Conference of the ERCIM WG on COMPUTING & STATISTICS. London, Italy, December, 2013.
- ERCIM'12 – Co-chair del 5th International Conference of the ERCIM WG on COMPUTING & STATISTICS, Oviedo, Spain, December 2012.
- CFE'11 – Member of the scientific committee of the "5th International Conference on Computational and Financial Econometrics", London, UK, December 2011.
- CLADAG 2011 – Member of the scientific committee of the meeting CLADAG 2011, University of Pavia, Italy, September 2011.
- CFE'10 – Member of the scientific committee of the meeting "4th International Conference on Computational and Financial Econometrics", London, UK, December 2010.
- CFE'09 – Member of the scientific committee of the meeting "3rd International Conference on Computational and Financial Econometrics", Limassol, Cyprus, October 2009.
- ICORS2009 – Chairman of the scientific committee of the "International Conference on Robust Statistics", Parma, Italy, June 2009.
- CFE'08 – Member of the scientific committee of the meeting "2nd International Workshop on Computational and Financial Econometrics, Neuchâtel, Switzerland, June 2008.
- ICORS2008 – Member of the scientific committee of the meeting "International Conference on Robust Statistics", Antalya, Turkey, September 2008.
- CFE'07 – Member of the scientific committee of the meeting "International Workshop on Computational and Financial Econometrics", Genève, Switzerland, April, 2007.
- ROBCLA 2006 – President of the scientific committee of the meeting "Robust Classification and Discrimination with High Dimensional Data", Florence, Italy, January, 2006.
- COMPSTAT 2006 – Member of the Scientific Committee of the Satellite meeting of COMPSTAT 2006 - 8th Workshop of the Ercim Working Group on Matrix Computations and Statistics. Salerno, Italy, September 2006.
- SER 2006 – Member of the Scientific Committee of the meeting "Time series analysis 2006", Rome, Italy, April 2006
- CLADAG 2005 – Member of the Scientific Committee of the meeting "Classification and Data Analysis Group", Parma, Italy, June 2005.
- O.U.T.C.O.M.E.S. 2005 – Member of the Scientific Committee of the meeting "O.U.T.C.O.M.E.S. 2005 Methods and models for the evaluation of the university system", Foggia, Italy, September 2005.
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Invited talks in international conferences	- **September** 2021, SIMAI, Parma, Italy
	- **October 2019,** The 57th ESReDA Seminar on Advances in Reliability, Risk and Safety Analysis with Big Data **–** Valencia, Spain, Italy
	- **July 2019 –** Benford Law conference – Stresa, Italy
	- **June 2019**, Workshop on Statistical Models and Methods for Complex Data, Benevento, Italy,
	- **April 2019 -** CRoNoS & MDA 2019, Limassol, Cyprus
	- **December 2018** – CMStatistics 2018, Pisa, Italy.
	- **June 2018** – Mathworks Research Summit, Boston USA.
	- **May 2018** – International Center of Sindology annual meeting, Chambery (France)
	- **December 2017** – CMStatistics 2017, London, UK
	- **September 2017** – CLADAG 2017, Milan, Italy
	- **June 2017** – Workshop in honour of Peter Rousseeuw 60th birthday
	- **December 2016** – CMStatistics 2016, Seville, Spain.
	- **June 2016** – SIS 2016, Salerno, Italy
	- **September 2015** – CLADAG 2015, Cagliari, Italy
	- **July 2015 –** IFCS 2015 (plenary talk), Bologna, Italy
	- **January 2015** – ICORS 2015, Kolkata, India
	- **December 2014** – ERCIM, Pisa, Italy

- **November 2014** – Jubilee Meeting on November 6-7, of the Dutch/Flemish classification society (VOC).
- **December 2013 –** Workshop on algorithms for outlier/regressor selection. Sponsored by Nuffield College and Institute of Economic Modelling, Oxford, UK.
- **September 2013** – CLADAG 2013, 9th Scientific Meeting of the Classification and Data Analysis Group of the Italian Statistical Society. Modena, Italy.
- **March 2013** – Robust Statistics meets Geomatics and Computer Vision, International Centre for Mechanical Sciences, Udine, Italy
- **September 2012** – Workshop "New robust methods for the analysis of complex data", Benevento, Italy.
- **June 2012** – 46th scientific meeting of the Italian statistical society, Rome, Italy.
- **December 2011** – ERCIM, London, UK
- **September 2011** – SCO2011, 7th Conference on Statistical Computation and Complex Systems, Padua, Italy.
- **June 2011** – ICORS 2011, Valladolid, Spain
- **May 2011** – Spring meeting of the Dutch/Flemish classification society (VOC). Antwerp, Belgium.
- **May 2010** – International Workshop on the Scientific Approach to the Acheiropoietos Images. Rome, Italy.
- **June 2010** – ICORS 2010, Prague, Czeck Republic.
- **September 2009** – Intermediate Meeting of the Italian Statistical Society, Pescara. Italy (plenary lecture).
- **September 2008** – ICORS 2008, Antalya, Turkey.
- **August 2008 –** COMPSTAT 2008, Porto, Portugal.
- **June 2008 –** XLIV Meeting of the Italian Statistical Society, Arcavata di Rende Cosenza, Italy.
- **September 2007** – 8th International Conference Computer Data Analysis and Modeling, Minsk: Belarusian State University, Russian Federation.
- **September 2007** – CLADAG 2007, Macerata, Italy.
- **September 2007** – ICORS 2007, Buenos Aires, Argentina.
- **August 2007** – ISI 2007, Lisbon, Portugal.
- **June 2007** – 29th Int. Conf. on Information Technology Interfaces, CAVTAT, Croatia.
- **October 2006** – *Workshop on Robustness and Statistical Inference in Honor of Victor Yohai,* Madrid, Spain.
- **August 2006** – 7th Prague Symposium on Asymptotic Statistics, Czech Republic.
- **July 2006** – ICORS 2006, Lisbon, Portugal.
- **June 2005** – ICORS 2005, Jyväskylä, Finland.
- **April 2005** – *DREAM* (Diagnostics, Robustness, Exploration and Modelling) meeting, Milton Keynes, England.
- **April 2004** – *Computational Management Science, Conference and Workshop on Computational Econometrics and Statistics.* Neuchâtel, Switzerland.
- **August 2002** –*COMPSTAT 2002*, 15th Symposium of IASC, Berlin, Germany.
- **June 2002** – *XLI Meeting of the Italian Statistical Society*, Milan, Italy.
- **September 2000** –*4th International Conference on Chemometrics and Environmetrics*, Las Vegas, Nevada, USA.
- **August 2000** –*Technometrics invited paper, Joint ASA & Biometrics Statistical Meetings*, Indianapolis, USA.
- **June 2000** – *XXXIX meeting of the Italian Statistical Society*, Florence.
- **April 2000** – *XL Meeting of the Italian Statistical Society*, Florence.
- **July 1999** – *Classification and data analysis group meeting (CALDAG),* Rome**.**
- **November 1998** – *Workshop* in *Robust Analysis of Multivariate Data: Outlier Detection, Cluster Identification and Data Mining,* University of Braunschweig, Germany.
- **October 1998** *Conference on Seasonal Adjustment Methods***,** Bucarest**.**
- **June 1997** – *VIII International Symposium on Applied Stochastic Models and Data Analysis: The Ins and Outs of Solving Real Problems*, Naples.
- **May 1996** – *XXXVII meeting of the Italian Statistical Society***,** Rimini**.**

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Editorial activity	**Associate editor**
	- January 2010 – NOW Associate Editor of the international Journal Metron

▪ September 2011 – NOW Associate Editor of the Springer Verlag Journal Statistical Methods and Applications. ***http://www.springerlink.com/content/1618-2510/.***
▪ Settembre 2011 – September 2017 Member of the board Unitext – Springer Verlag Italy, series of Statistics and Applied Probability ***http://www.springer.com/series/1380***

Guest editor

▪ 2006 – guest editor (jointly with A. Cerioli e B. Chiandotto) of the special issue of the Springer Journal STATISTICAL METHODS AND APPLICATIONS ***http://www.springerlink.com/content/1618-2510/*** on Robust Multivariate Analysis and Classification.
▪ 2010 – guest editor (jointly with A. Cerioli and P. Rousseeuw) of the special issue of the Springer Verlag Journal , ADVANCES IN DATA ANALYSIS AND CLASSIFICATION ***http://www.springer.com/statistics/statistical+theory+and+methods/journal/11634*** on Robust Methods for Classification and Data Analysis.
▪ 2015 – guest editor (jointly with D. Cocchi and M. Alfò) of the special issue of the Journal STATISTICA ***http://rivista-statistica.unibo.it/*** on Selected papers in statistical methods: the Italian Statistical Society at 2014.
▪ 2018 – guest editor (jointy with M. Chiogna and P. Ferrari) of the special volume of Statistics & Applications.
▪ 2020-2021 guest editor (together with M. Hubert) of the special issue of Metron about Robust Statistics
▪ 2020 2021 guest editor of the special issue of STATS Robust statistics in action https://www.mdpi.com/journal/stats/special_issues/robust_statistics

Computer skills	Proficient with the following programs: Matlab, Gauss and R. Proficient of Microsoft Office™ tools (I wrote several books about the use of Excel, Word, Power Point and Access and Front Page) see http://www.riani.it/. Discrete knowledge of C and C++
Other skills	Play chess (ELO score around 2000)
Driving licence	A, B

ADDITIONAL INFORMATION

Publications in International Journals (Years 2000- 2021)

TORTI F., RIANI M., MORELLI G. (2021). Semiautomatic robust regression clustering of international trade data, Statistical Methods and Applications, (open access) https://link.springer.com/content/pdf/10.1007/s10260-021-00569-3.pdf

RIANI M., HUBERT G. (2021). Special issue in robust statistics, Editorial, (open access) https://link.springer.com/article/10.1007/s40300-021-00213-w

ATKINSON A.C., RIANI M., CORBELLINI A. (2021). The Box-Cox Transformation: Review and Extensions, Statistical Science, 36, p. 239-255, DOI: 10.1214/20-STS778

DI LAZZARO, P., ATKINSON, A.C., IACOMUSSI, P., RIANI, M., RICCI, M., WADHAMS, P. (2020). Statistical and Proactive Analysis of an Inter-Laboratory Comparison: The Radiocarbon Dating of the Shroud of Turin. Entropy, 22, 926. https://www.mdpi.com/1099-4300/22/9/926

RIANI M., ATKINSON A.C., CORBELLINI A., PERROTTA D. (2020). Robust Regression with Density Power Divergence: Theory, Comparisons, and Data Analysis, Entropy, 22, 399. https://www.mdpi.com/1099-4300/22/4/399

GARCÍA-ESCUDERO L.A., MAYO-ISCAR A., RIANI M.. (2020). Model-based clustering with determinant-and-shape constrain, Statistics and Computing, 30, p. 1363–1380

ATKINSON A.C., RIANI M., CORBELLINI A., (2019). The Analysis of Transformations for Profit and Loss Data, *Journal of the Royal Statistical Society Series C, Applied Statistics*, https://doi.org/10.1111/rssc.12389

RIANI M., ATKINSON A.C., CERIOLI A., CORBELLINI A. (2019). Comments on: Data science, big data and statistics, Test, 28, p. 349–352 https://link.springer.com/article/10.1007/s11749-019-00647-5

RIANI M., ATKINSON A.C., CERIOLI A., CORBELLINI A. (2019). Efficient robust methods via monitoring for clustering and multivariate data analysis, Pattern Recognition, 88, p. 246–260. https://doi.org/10.1016/j.patcog.2018.11.016

TORTI F. PERROTTA D., RIANI M. CERIOLI A (2018). Assessing Trimming Methodologies for Clustering Linear Regression Data, Advances in Data Analysis and Classification, https://doi.org/10.1007/s11634-018-0331-4 .

CERIOLI A, FARCOMENI A, RIANI M. (2018). Wild adaptive trimming for robust estimation and cluster analysis. Scandinavian Journal of Statistiscs;1–22. https://doi.org/10.1111/sjos.12349

ROUSSEEUW P.J., PERROTTA D., RIANI M., HUBERT M. (2018). Robust Monitoring of Time Series with Application to Fraud Detection. Econometrics and Statistics. http://dx.doi.org/10.1111/insr.12247

RIANI M., CORBELLINI A., ATKINSON A.C. (2018). The Use of Prior Information in Very Robust Regression for Fraud Detection. International Statistical Review. doi:10.1111/insr.12247

CERIOLI A., RIANI M., ATKINSON A.C., CORBELLINI A., (2017). The power of monitoring: how to make the most of a contaminated multivariate sample, Statistical Methods and Applications, DOI, https://doi.org/10.1007/s10260-017-0409-8

CERIOLI A., GARCÍA-ESCUDERO L.A., MAYO-ISCAR A., RIANI M (2017). Finding the number of normal groups in model-based clustering via constrained likelihoods. Journal Computational Graphical Statistics. https://doi.org/10.1080/10618600.2017.1390469

ATKINSON A.C., RIANI M., CERIOLI A., (2017). Cluster Detection and Clustering with Random Start Forward Searches JOURNAL OF APPLIED STATISTICS, Journal of Applied Statistics, p. 1-22 http://dx.doi.org/10.1080/02664763.2017.1310806

ATKINSON A.C., CORBELLINI A., RIANI M. (2017). Robust Bayesian Regression with the Forward Search: Theory and Data Analysis, Test, 26 pp. 869–886, https://doi.org/10.1007/s11749-017-0542-6,

ATKINSON A.C., RIANI M., TORTI F., (2016). Robust methods for heteroskedastic regression, COMPUTATIONAL STATISTICS AND DATA ANALYSIS 104, p. 209–222, http://dx.doi.org/10.1016/j.csda.2016.07.002

ATKINSON A.C., CERIOLI A., RIANI M., (2016). Discussion to the paper by Johansen and Nielsen: Asymptotic Theory of Outlier Detection Algorithms for Linear Time Series Regression Models, SCANDINAVIAN JOURNAL OF STATISTICS, 43, p. 349-352, http://dx.doi.org/10.1111/sjos.12210

SALINI S. CERIOLI A., LAURINI F. AND RIANI M. (2015) Reliable robust regression diagnostics, *INTERNATIONAL STATISTICAL REVIEW*, 1–29 http://dx.doi.org/10.1111/insr.12103

CORBELLINI A. RIANI M., ATKINSON A.C. (2015). Discussion to the paper by Hubert, Rousseeuw and Segaert: multivariate functional outlier detection. STATISTICAL METHODS AND APPLICATIONS Vol. 24, p. 257–261 DOI 10.1007/s10260-015-0324-9.

RIANI M., CERIOLI A., PERROTTA D. and TORTI F. (2015). Simulating mixtures of multivariate data with fixed cluster overlap in FSDA. ADVANCES IN DATA ANALYSIS AND CLASSIFICATION. Volume 9, Issue 4, pp 461-481. DOI 10.1007/s11634-015-0223-9.

RIANI M., CERIOLI A., PERROTTA D. (2015). The Forward Search for Very Large Datasets. *JOURNAL OF STATISTICAL SOFTWARE*, Vol. 67, Code Snippet 1

RIANI M., CERIOLI A., ATKINSON A.C., PERROTTA D. (2014). Monitoring Robust Regression. *ELECTRONIC JOURNAL OF STATISTICS*, Vol. 8, pp. 642–673 DOI:10.1214/14-EJS897

CERIOLI A., FARCOMENI A. RIANI M., (2014). Strong consistency and robustness of the Forward

Search estimator of multivariate location and scatter, J*OURNAL OF MULTIVARIATE ANALYSIS*, http://dx.doi.org/10.1016/j.jmva.2013.12.010 . Vol. 126 pp. 167–183.

RIANI M., CERIOLI A., TORTI F. (2014). On consistency factors and efficiency of robust S-estimators *TEST*, Volume 23, Issue 2, pp 356-387. DOI: 10.1007/s11749-014-0357-7.

RIANI M., ATKINSON A.C., PERROTTA D. (2014). A Parametric Framework for the Comparison of Methods of Very Robust Regression, *STATISTICAL SCIENCE*, Vol. 29, No. 1, pp. 128–143.

CERIOLI, A., FARCOMENI A., RIANI M. (2013). Robust distances for outlier-free goodness-of-fit testing, *COMPUTATIONAL STATISTICS AND DATA ANALYSIS*, Special issue on robust analysis of complex data, Edited by Christophe Croux, Elvezio Ronchetti, Matías Salibián-Barrera and Stefan Van Aelst doi: http://dx.doi.org/10.1016/j.csda.2012.03.008, vol. 65, pp. 29-45

RIANI, M., PERROTTA D., TORTI F. (2012). FSDA: A MATLAB toolbox for robust analysis and interactive data exploration, *CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS*, 116, p. 17-32, doi:10.1016/j.chemolab.2012.03.017,

RIANI, M., ATKINSON A.C., FANTI G., CROSILLA F. (2012). Regression analysis with partially labelled regressors: carbon dating of the Shroud of Turin, *STATISTICS AND COMPUTING*, p. 17-32, doi: 10.1007/s11222-012-9329-

ATKINSON A.C., RIANI M. (2012). Discussion on the paper by Spiegelhalter, Sherlaw-Johnson, Bardsley, Blunt, Wood and Grigg. *JOURNAL OF THE ROYAL STATISTICAL SOCIETY. SERIES A. STATISTICS IN SOCIETY*, vol. 175, ISSN: 0964-1998

TORTI F., PERROTTA D., ATKINSON A.C., RIANI M. (2012). Benchmark testing of algorithms for very robust regression: FS, LMS and LTS. *COMPUTATIONAL STATISTICS & DATA ANALYSIS*, Volume 56, Issue 11, ISSN: 0167-9473, doi: 10.1016/j.csda.2012.02.003

BELLINI T., RIANI M. (2012). Robust Analysis of Default Intensity. *COMPUTATIONAL STATISTICS & DATA ANALYSIS*, ISSN: 0167-9473, doi: 10.1016/j.csda.2011.03.007

ATKINSON A.C., RIANI M., A. CERIOLI (2010). The forward search: Theory and data analysis, *JOURNAL OF THE KOREAN STATISTICAL SOCIETY*, vol. 39; p. 117-134, ISSN: 1226-3192, doi: 10.1016/j.jkss.2010.02.007

RIANI M., A.C. ATKINSON (2010). Robust model selection with flexible trimming. *COMPUTATIONAL STATISTICS & DATA ANALYSIS*, vol. 54; p. 3300-3312, ISSN: 0167-9473, doi: 10.1016/j.csda.2010.03.007

CERIOLI A, RIANI M., ATKINSON A.C (2009). Controlling the size of multivariate outlier tests with the MCD estimator of scatter. *STATISTICS AND COMPUTING*, vol. 19; p. 201-221, ISSN: 0960-3174, doi: 10.1007/s11222-008-9096-5

PERROTTA D, RIANI M., TORTI F (2009). New robust dynamic plots for regression mixture detection. *ADVANCES IN DATA ANALYSIS AND CLASSIFICATION*; p. 263-279, ISSN: 1862-5347, doi: 10.1007/s11634-009-0050-y

PROIETTI T., RIANI M. (2009). Seasonal adjustment and transformations. *JOURNAL OF TIME SERIES ANALYSIS*, vol. 30; p. 47-69, ISSN: 0143-9782, doi: 10.1111/j.1467-9892.2008.00600.x

RIANI M. (2009). Robust Transformations in Univariate and Multivariate Time Series. *ECONOMETRIC REVIEWS*, vol. 28; p. 262-278, ISSN: 0747-4938, doi: 10.1080/07474930802388074

RIANI M., ATKINSON A.C, CERIOLI A (2009). Finding an unknown number of multivariate outliers. *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B STATISTICAL METHODOLOGY,* vol. 71; p. 201-221, ISSN: 1369-7412, doi: 10.1111/j.1467-9868.2008.00692.x

ATKINSON A.C., RIANI M. (2008). A robust and diagnostic information criterion for selecting regression

models. *JOURNAL OF THE JAPAN STATISTICAL SOCIETY,* vol. 38; p. 3-14, ISSN: 1882-2754 447-458, Heidelberg: Physica-Verlag, ISBN/ISSN: 9783790820836, doi: 10.1007/978-3-7908-2084-3_37

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