

# Aldo SOLARI

*Curriculum Vitae et Studiorum*

(Last updated: March 2, 2021)

Born in Gorizia, Italy, on the 27th of September 1978. Nationality: Italian.

## ADDRESS

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WORK Department of Economics, Management and Statistics, University of Milano-Bicocca  
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Web page: <https://aldosolari.github.io/>

## POSITIONS HELD

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February 1, 2020 – present	Professor at the Department of Economics, Management and Statistics of the University of Milano-Bicocca.
March 1, 2015 – January 31, 2020	Associate Professor at the Department of Economics, Management and Statistics of the University of Milano-Bicocca.
December 23, 2010 – February 28, 2015	Assistant Professor at the Department of Statistics/Department of Economics, Management and Statistics of the University of Milano-Bicocca.
January 1, 2007 – December 22, 2010	Postdoctoral Research Fellow at the Department of Chemical Process Engineering of the University of Padova. Supervisors: Prof. Silvio Bicciato (January 1, 2007 – October 31, 2008), Prof. Andrea Bagno (November 1, 2008 – December 22, 2010).

## EDUCATION

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March 16, 2007	Ph.D. in Statistics at the Department of Statistical Sciences of the University of Padova, Italy. Supervisors: Prof. Fortunato Pesarin and Prof. Silio Rigatti Luchini.
January 2004 – December 2006	Ph.D. student at the Department of Statistical Sciences of the University of Padova, Italy.
October 13, 2003	<i>Laurea</i> (Master degree) in Statistics for the Demographic and Social Sciences at the University of Padova, Italy. Score: 110/110 <i>cum laude</i> . Supervisor: Prof. Fortunato Pesarin.
September 1997 – October 2003	Undergraduate student Statistics and Informatics for Business at the University of Trieste, Italy (September 1997 – August 1999) and in Statistics for the Demographic and Social Sciences at the University of Padova, Italy (September 1999 – October 2003).

## VISITING PERIODS

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2016, 2017	Visiting Researcher at the Department of Medical Statistics and Bioinformatics of the Leiden University Medical Center, Leiden, The Netherlands. From 23-05-2016 to 06-06-2016 and 10-03-2017 to 24-03-2017
2014, 2015	Visiting Researcher at the Department of of Health Evidence of Radboud University Medical Centre, Nijmegen, The Netherlands. From 03-03-2014 to 22-06-2014 and from 19-02-2015 to 22-03-2015
2008, 2009-10, 2013	Visiting Researcher at the Department of Medical Statistics and Bioinformatics of the Leiden University Medical Center, Leiden, The Netherlands. From 16-01-2008 to 05-03-2008, from 27-03-2009 to 07-12-2010, from 17-02-2013 to 31-05-2013
2006	Visiting Scholar at the Department of Mathematics and Statistics of the Williams College, Williams Town, United States. From 19-04-2006 to 11-05-2006.
2005	Visiting Scholar at the Department of Statistics and Computer Information Systems of the City University of New York, New York, United States. From 27-11-2005 to 15-12-2005.

## RESEARCH INTERESTS

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High Dimensional Data.  
Multiple Testing.  
Permutation Tests.  
Predictive Inference.  
Selective Inference.

## PUBLICATIONS: JOURNALS

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1. Solari A., Goeman J.J. (2021+) “Exploratory inference in genomics and neuroscience: localizing relevant effects with confidence”. *Handbook of Multiple Comparisons*. Chapman & Hall / CRC Handbooks of Modern Statistical Methods.
2. Goeman J.J., Hemerik J., Solari A. (2021+) “Only Closed Testing Procedures are Admissible for Controlling False Discovery Proportions”. *Annals of Statistics (to appear)*.
3. Goeman J.J., Meijer R.J., Krebs T.P., Solari A. (2019). “Simultaneous Control of All False Discovery Proportions in Large-Scale Multiple Hypothesis Testing”, *Biometrika*, **106**, 841–856. doi: 10.1093/biomet/asz041
4. Hemerik J., Solari A., Goeman J.J. (2019). “Permutation-based simultaneous confidence bounds for the false discovery proportion”, *Biometrika*, **59**, 635–649, doi: 10.1093/biomet/asz021
5. Goeman J.J., Solari A. (2019) “Comment on Cai, Sun and Wang ‘Covariate-assisted ranking and screening for large-scale two-sample inference’ ” *Journal of the Royal Statistical Society - series B*, **81**, 225–226, doi: 10.1111/rssb.12304
6. Rosenblatt J.D., Finos L., Weeda W.W., Solari A., Goeman J.J. (2018), “All-Resolutions Inference for Brain Imaging”, *Neuroimage*, **181**, 786–796, doi:10.1016/j.neuroimage.2018.07.060
7. Gentili R., Solari, A., Diekmann M, Duprè C., Monti G.S., Armiraglio S., Assini S., Citterio S. (2018). “Genetic differentiation, local adaptation and phenotypic plasticity in fragmented populations of a rare forest herb”, *PeerJ*, 6:e4929 <https://doi.org/10.7717/peerj.4929>

8. Solari A. (2017). Contribution to the discussion of “A critical evaluation of the current ‘p-value controversy’”, *Biometrical Journal*, **106**, 895–896, doi: 10.1002/bimj.201700036
9. Solari A., Goeman J.J. (2017). “Minimally Adaptive BH: a tiny but uniform improvement of the Procedure of Benjamini and Hochberg”, *Biometrical Journal*, **59**, 776–780, doi: 10.1002/bimj.201500253
10. Volpi C., Mondanelli G., Pallotta M.T., Vacca C., Iacono A., Gargaro M., Albini E., Bianchi R., Belladonna M.L., Celanire S., Mordant C., Heroux M., Royer-Urios I., Schneider M., Vitte P.A., Cacquevel M., Galibert L., Poli S.M., Solari A., Bicciato S., Calvitti M., Antognelli C., Puccetti P., Orabona C., Fallarino F., Grohmann U. (2016). Allosteric modulation of metabotropic glutamate receptor 4 activates IDO1-dependent, immunoregulatory signaling in dendritic cells. *Neuropharmacology*, **102**, 59–71, doi: 10.1016/j.neuropharm.2015.10.036
11. Goeman J.J., Solari A. (2014). “Multiple hypothesis testing in genomics”, *Statistics in Medicine*, **33**, 1946–1978, doi: 10.1002/sim.6082
12. Solari A., Finos L., Goeman J.J. (2014). “Rotation-based multiple testing in the multivariate linear model”, *Biometrics*, **70**, 954–961, doi: 10.1111/biom.12238
13. Solari A. (2013). Book Review: “Simultaneous Inference in Regression” by W. Liu, *Biometrics*, **69**, 559–560, doi: 10.1002/biom.12057
14. Solari A., le Cessie S., Goeman J.J. (2012). “Testing Goodness-of-Fit in Regression: a General Approach for Specified Alternatives”, *Statistics in Medicine*, **31**, 3656–66, doi: 10.1002/sim.5417
15. Ferrari F., Solari A., Battaglia C. and Bicciato S. (2011). “PREDA: an R-package to identify regional variations in genomic data”, *Bioinformatics*, **27**, 2446–2447, doi: 10.1093/bioinformatics/btr404
16. Goeman J.J., Solari A. (2011). “Multiple Testing for Exploratory Research”, *Statistical Science*, **26**, 584–597, doi: 10.1214/11-STS356 (with Discussion and “Rejoinder”, **26**, 608–612)
17. Goeman J.J., Solari A. (2010), “The Sequential Rejection Principle of Familywise Error Control”, *The Annals of Statistics*, **38**, 3782–3810, doi: 10.1214/10-AOS829
18. Goeman J.J., Solari A., Stijnen T. (2010). “Three-sided Hypothesis Testing: Simultaneous Testing of Superiority, Equivalence and Inferiority”, *Statistics in Medicine*, **29**, 2117–2125, doi: 10.1002/sim.4002
19. Smeenk G., Wiegant W.W., Vrolijk H., Solari A., Pastink A. and van Attikum H. (2010), “The NuRD chromatin-remodeling complex regulates signaling and repair of DNA damage”, *The Journal of Cell Biology*, **190**, 741–749
20. Klingenberg B., Solari A., Salmaso L., Pesarin F. (2009). “Testing marginal homogeneity against stochastic order in multivariate ordinal data”, *Biometrics*, **65**, 452–462, doi:10.1083/jcb.201001048
21. Adorno M., Cordenonsi M., Montagner M, Dupont S, Wong C, Hann B, Solari A., Bobisse S., Rondina M.B., Guzzardo V., Parenti A.R., Rosato A., Bicciato S., Balmain A., Piccolo S. (2009). “A Mutant-p53/Smad Complex Opposes p63 to Empower TGF $\beta$ -Induced Metastasis”, *Cell*, **137**, 87–98, doi: 10.1016/j.cell.2009.01.039
22. Bicciato S., Spinelli R., Zampieri M., Mangano E., Ferrari F., Beltrame L., Cifola I., Peano C., Solari A., Battaglia C. (2009), “A computational procedure to identify significant overlap of differentially expressed and genomic imbalanced regions in cancer datasets”, *Nucleic Acids Research*, **37**, 5057–5070, doi: 10.1093/nar/gkp520
23. Solari A., Salmaso L., Pesarin F., El Barmi H. (2008). “Conditional Tests in a Competing Risks Model”, *Lifetime Data Analysis*, **14**, 154–166, doi:10.1007/s10985-007-9059-8
24. Finos L., Pesarin F., Salmaso L., Solari A. (2008). “Exact inference for multivariate ordered alternatives”. *Statistical Methods and Applications* **17**, 195-208, doi: 10.1007/s10260-007-0052-x
25. Finos L., Salmaso L., Solari A. (2007). “Conditional Inference under Simultaneous Stochastic Ordering Constraints”, *Journal of Statistical Planning and Inference*, **137**, 2633–2641, doi: 10.1016/j.jspi.2006.04.014
26. Salmaso L., Solari A. (2006). “Nonparametric iterated combined tests for genetic differentiation”, *Computational Statistics and Data Analysis*, **50**, 1105–1112, doi: 10.1016/j.csda.2004.11.005
27. Bonnini S., Salmaso L., Solari A. (2005). “Multivariate permutation tests for evaluating effectiveness of universities through the analysis of student dropouts”, *Statistica e Applicazioni*, **3**, 37–44, issn: 18246672
28. Salmaso L., Solari A. (2005). “Multiple aspect testing for case-control designs”, *Metrika*, **62**, 331–340, doi: 10.1007/s00184-005-0416-x

## CONTRIBUTIONS IN BOOKS AND PROCEEDINGS

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1. Solari A., Finos L., Weeda W., Rosenblatt J., Goeman J.J. (2017) *Flexible Inference for fMRI data* In: Cladag 2017 Book of Short Papers, Greselin F., Mola F. and Zenga Ma. Editors, Universitas Studiorum, ISBN 9788899459710
2. Monti G.S., Solari A. *Fallacia dello scommettitore; Gioco equo; Probabilità; Slot machine, II* (2016) In: Ludocrazia Un lessico dell'azzardo di massa, Editors: Dotti M., Esposito M., O Barra O Edizioni, Milano, ISBN: 9788869680281
3. Basso D., Pesarin F., Salmaso L., Solari A. (2009) *Permutation Tests for Stochastic Ordering and ANOVA: Theory and Applications with R*, Series: Lecture Notes in Statistics, Vol. 194. Publisher: Springer New York, ISBN: 9780387859552
4. Arboretti Giancristofaro R., Pesarin F., Salmaso L., Solari A. (2007) *Nonparametric Approaches for Multivariate Testing with Mixed Variables and for Ranking on Ordered Categorical Variables with an Application to the Evaluation of Ph. D. Programs*. In: Real Data Analysis, Editor: Sawilowsky S, p. 335-353, Information Age Publishing Charlotte, ISBN: 9781593115654

## WORKING PAPERS AND PAPERS SUBMITTED TO JOURNALS

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1. Solari A., Djordjilović (2021). “Multi Spliti Conformal Inference.”, *Preprint*.
2. Goeman J.J., Solari A. (2020). “Comparing three groups.”, *Preprint*.
3. Xu N., Solari A., Goeman J.J. (2019). “Globaltest confidence regions and their application to ridge regression”, *Submitted*.
4. Xu N., Solari, A., Goeman J.J. (2019). “Pathway Testing in Metabolomics with Globaltest, Allowing Post Hoc Choice of Pathways”, *Submitted*.
5. Solari A., Goeman J.J. (2019). “Quantifying variable selection uncertainty in linear models”, *Manuscript*.

## TALKS: INVITED

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- 2020 International Seminar on Selective Inference, “Exploratory Inference for Brain Imaging”, Webinar, 7 May 2020 <https://sites.google.com/view/selective-inference-seminar>
- 2020 *Cancelled*. Banff International Research Station for Mathematical Innovation and Discovery (BIRS) Workshop, “The Interface Between Selective Inference and Machine Learning”, Banff, Canada, March 8 - 13
- 2019 11th International Chinese Statistical Association Conference, Hangzhou, China, December 20-22
- 2019 11th International Conference on Multiple Comparison Procedures, Taipei, Taiwan, December 12-15
- 2019 *All-resolutions inference for brain imaging* (joint work with Jonathan Rosenblatt, Livio Finos, Wouter Weeda and Jelle Goeman). Invited seminar at the Department of Mathematics, Oslo, Norway, April 9.
- 2019 *Quantifying model uncertainty by model confidence sets* (joint work with Jelle Goeman). Talk in the invited session “Post-selection inference in regression” at the 7th IBS Channel Network Conference, Rothamsted Research, U.K., July 12.
- 2018 *Simultaneous bounds for the FDP with unknown dependence* (joint work with Jesse Hemerik and Jelle Goeman). Talk in the invited session “Post hoc confidence bounds” at the Workshop: Post-selection Inference and Multiple Testing, Toulouse, France, February 7.
- 2017 *Simultaneous confidence bounds for the false discovery proportion: A permutation approach* (joint work with Jesse Hemerik and Jelle Goeman). Talk in the invited session “Recent developments in hypothesis testing for high dimensional data” at CMStatistics 2017, London, United Kingdom, December 18.

- 2017 *Flexible Inference for fMRI Data* (joint work with Jonathan Rosenblatt, Livio Finos, Wouter Weeda and Jelle Goeman). Talk in the invited session “Big Data - Big Knowledge” at 11th Scientific Meeting of the CLAssification and Data Analysis Group of the Italian Statistical Society, Milan, Italy, September 14.
- 2017 *Variable Selection Uncertainty in Linear Models* (joint work with Jelle Goeman). Invited seminar at the Department of Statistical Sciences of the University of Padua, June 16.
- 2015 *Post-Selection Inference for fMRI Data* (joint work with Livio Finos and Jelle Goeman). Invited talk at the Workshop: New Perspectives in Multiple Testing – 80 years after Bonferroni, Padua, Italy, October 9.
- 2013 *Rotation-based multiple testing in the multivariate linear model* (joint work with Livio Finos and Jelle Goeman). Invited talk at the International Conference Simultaneous Inference 2013, Hannover, Germany, September 26.
- 2013 *Simultaneous confidence bounds for the false discovery proportion* (joint work with Livio Finos and Jelle Goeman). Invited talk at the IX Congress of IBS - Italian Region, Brixen, Italy, June 26–28.
- 2013 *Multiple testing for exploratory research: applications to genomics* (joint work with Jelle Goeman). Invited talk at the BMS-ANed spring meeting, Leiden, The Netherlands, March 13.
- 2012 *Multiple testing for exploratory research* (joint work with Jelle Goeman). Invited seminar at the Institut für Biostatistik of the Leibniz Universität Hannover, Germany
- 2010 *The sequential rejection principle of familywise error control* (joint work with Jelle Goeman). Invited talk at the 31st Annual Conference of the International Society for Clinical Biostatistics, Montpellier, France, August 29–September 2.
- 2009 *Testing Trees of Hypotheses* (joint work with Jelle Goeman). Invited talk at the 16th European Young Statisticians Meeting, Bucharest, Romania, August 24–28.
- 2008 *Multiplicity issues in clinical trials*. Invited seminar at the Department of Economics and Statistics of the University of Trieste, Italy.
- 2006 *Testing hypotheses on genetic variation and population structure: a general framework based on exact tests and combined p-values* (joint work with Livio Finos and Giorgio Bertorelle). Invited talk at I Congresso della Società Italiana di Biologia Evoluzionistica and II Congresso dei Biologi Evoluzionisti Italiani, Florence, Italy, September 4–7.

#### TALKS: CONTRIBUTED

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- 2018 *All-resolutions inference for brain imaging* (joint work with Jonathan Rosenblatt, Livio Finos, Wouter Weeda and Jelle Goeman). Contributed talk at the 10th Conference of the Eastern Mediterranean Region of the International Biometric Society, Jerusalem, Israel, December 17–20.
- 2017 *Assessing Variable Selection Uncertainty in Linear Models* (joint work with Jelle Goeman). Contributed talk at the 10th Conference on Multiple Comparison Procedures, Riverside, California, June 20–23.
- 2017 *Variable Selection Uncertainty in Linear Regression* (joint work with Ningning Xu and Jelle Goeman). Contributed talk at the 9th EMR-IBS and Italian Region Conference, Thessaloniki, Greece, May 8–12.
- 2016 *Minimally Adaptive BH: a tiny but uniform improvement of the procedure of Benjamini and Hochberg* (joint work with Jelle Goeman). Contributed talk at the 10th Adaptive Designs and Multiple Testing Procedures, Padua, Italy, April 28–29.
- 2015 *Variable Selection Uncertainty in Regression Models* (joint work with Jelle Goeman). Contributed talk at the Joint Meeting of the IBS, Austro-Swiss and Italian Regions, Milan, Italy, June 15–19.
- 2015 *Variable Selection Uncertainty in Regression Models* (joint work with Jelle Goeman). Contributed talk at the 5th IBS Channel Network Conference, Nijmegen, The Netherlands, April 20–22.
- 2013 *Confidence intervals for ranks, with application to performance indicators* (joint work with Erik van Zwet, Rosa Meijer and Jelle Goeman). Contributed talk at the IES 2013, Milan, Italy, December 9–10.

- 2013 *Confidence Bounds for the False Discovery Proportion* (joint work with Jelle Goeman). Contributed talk at the 8th International Conference on Multiple Comparison Procedures, Southampton, United Kingdom, July 8–11.
- 2013 *A sharper Meinshausen’s procedure* (joint work with Livio Finos and Jelle Goeman). Contributed talk at the 7th meeting of the Eastern Mediterranean Region of the International Biometric Society, Tel-Aviv, Israel, April 22–25.
- 2012 *Rotations-based multiple testing in the multivariate linear model* (joint work with Livio Finos and Jelle Goeman). Contributed talk at the 8th World congress in probability and statistics, Istanbul, Turkey, July 9–14.
- 2011 *Multiple Testing for Exploratory Research* (joint work with Jelle Goeman). Contributed talk at the VIII Conferenza della Società Italiana di Biometria (Italian Region IBS), Gargnano del Garda, Italy, June 27–29.
- 2011 *Goodness of Fit Testing in Regression: A General Approach for Specified Alternatives* (joint work with Saskia le Cessie and Jelle Goeman). Contributed talk at the 3rd Conference IBS Channel Network, Bordeaux, France, April 11–13.
- 2009 *Testing Trees of Hypotheses* (joint work with Livio Finos and Jelle Goeman). Contributed talk at the VII Congresso Nazionale della Società Italiana di Biometria, Ponte di Legno, Italy, June 10–12.
- 2008 *Multiple Comparison Procedures based on Permutation Tests* (joint work with Livio Finos). Contributed talk at the XXIVth International Biometric Conference, Dublin, Ireland, July 13–18.
- 2007 *Testing Dose-Response with Multivariate Ordinal Data* (joint work with Bernhard Klingenberg, Luigi Salmaso and Fortunato Pesarin). Contributed talk at the Applied Statistics International Conference, Ribno, Slovenia, September 23–26.
- 2007 *Multiple hypotheses testing for establishing whether treatment is “better” than control* (joint work with Luigi Salmaso and Fortunato Pesarin). Contributed talk at the 5th International Conference on Multiple Comparison Procedures, Vienna, Austria, July 8–11.
- 2006 *Analysis of Multivariate Binary Data with Application to Safety Studies for Drugs* (joint work with Luigi Salmaso). Contributed talk at the Applied Statistics International Conference, Ribno, Slovenia, September 17–20.
- 2006 Solari A., Finos L., Pesarin F., Salmaso L., *Conditional Tests for comparing  $k$  Competing Risks* (joint work with Livio Finos, Fortunato Pesarin and Luigi Salmaso). Contributed talk at XLIII Riunione Scientifica della Società Italiana di Statistica, Turin, Italy, June 14–16.
- 2005 *A power comparison of multivariate tests for restricted alternatives* (joint work with Fortunato Pesarin and Luigi Salmaso). Contributed talk at SCO 2005: Modelli Complessi e Metodi Computazionali Intensivi per la Stima e la Previsione, Brixen, Italy, September 15–17.

## POSTERS

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- 2014 Solari A., Goeman J.J. *Models on the Catwalk: model selection and deselection with confidence*. Contributed poster at XXVIIth International Biometric Conference (IBC 2014), Florence, Italy, July 6–11.
- 2014 Solari A., Goeman J.J. *Models on the Catwalk: model selection and deselection with confidence*. Award-winning poster at 47th Scientific meeting of the Italian Statistical Society, Cagliari, Italy, June 11–13.
- 2010 Finos L., Solari A., Goeman J.J. *MinPall: resampling-based multiple testing of graph-structured hypotheses*. Contributed poster at mutoss 2010 - multiple comparisons from theory to practice, Berlin, Germany, February 15–16.

## SOFTWARE

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- cherry** R package published on CRAN. Multiple Testing Methods for Exploratory Research. Goeman J. (authors), Meijer R., Solari A. (contributions).
- flip** R package published on CRAN. Multivariate Permutation Tests. Finos L. (author), Basso D., Solari A., Goeman J., Rinaldo M. (contributions).
- globaltest** R package published on Bioconductor. Testing Groups of Covariates/Features for Association with a Response Variable, with Applications to Gene Set Testing. Goeman J., Oosting J. (authors), Finos L., Solari A. (contributions).

## RESEARCH GRANTS

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- 2016–2019 ATE - Fondi di Ateneo 2016, 2017, 2018, 2019 University of Milano-Bicocca. *Selective Inference* (2016-ATE-0176, 2017-ATE-0475, 2018-ATE-0267, 2019-ATE-0305). Principal Investigator: A. Solari
- 2013–2015 ATE - Fondi di Ateneo 2013, 2014, 2015 University of Milano-Bicocca. *Metodi statistici per l'inferenza simultanea* (2013-ATE-0336, 2014-ATE-0171, 2015-ATE-0281). Principal Investigator: A. Solari
- 2011 ATE - Fondo di Ateneo 2011 University of Milano-Bicocca. *Aspetti probabilistici ed inferenziali per alcuni problemi statistici non standard* (2011-ATE-0121). Role: Membro interno. Principal Investigator: Prof. S. Migliorati
- 2012–2015 FIRB Accordi di Programma 2011. *RNA and nanotechnology in the control of neoplastic immunosuppression sustained by amino acid catabolism*. From 22-02-2012 to 30-11-2015. Role: Personale docente esterno. Principal Investigator: Prof. U. Grohmann
- 2007–2010 Fondazione Cassa di Risparmio di Padova e Rovigo: Progetti di Eccellenza 2006. *A computational approach to the study of skeletal muscle genomic expression in health and disease*. From 01-06-2007 to 01-09-2010. Role: Titolare di assegno di ricerca. Principal Investigator: Prof. S. Bicciato
- 2007–2010 PRIN 2007. *Approccio integrato di biologia sistemica per la ricostruzione dei processi di segnalazione molecolari e di attivazione monocitaria/macrofagica in risposta a stimoli infiammatori in condizioni fisiologiche mediante tecnologie omiche*. From 1/1/2007 to 31/12/2010. Role: Titolare di assegno di ricerca. Principal Investigator: Prof. S. Bicciato
- 2007–2008 Università di Padova: Progetti per Assegni di Ricerca 2006. *Metodi computazionali per l'analisi integrata di dati di espressione genica e di genotipizzazione ottenuti con la tecnologia microarray (integrative genomics)*. From 01/01/2007 to 31/12/2008 Role: Titolare di assegno di ricerca. Principal Investigator: Prof. S. Bicciato

## TEACHING EXPERIENCE (UNDERGRADUATE LEVEL)

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*Analisi Statistica Multivariata - Analisi Esplorativa (42 hours)*

University of Milano-Bicocca, A.A. 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, 2020-21

*Data Science - Data Mining M and Statistical Learning M (63 hours)*

University of Milano-Bicocca, A.A. 2019-20, 2020-21

*Data Science - Data Mining M and Statistical Learning M (84 hours)*

University of Milano-Bicocca, A.A. 2016-17, 2017-18, 2018-19, 2019-20 (63 hours), 2020-21 (63 hours)

*Introduzione all'Inferenza Statistica M - Elementi di Analisi Multivariata (21 hours)*

University of Milano-Bicocca, A.A. 2015-16

*Controllo della Qualità e Statistica Computazionale M - Statistica Computazionale (42 hours)*

University of Milano-Bicocca, A.A. 2014-15, 2015-16

*Statistica II (42 hours)*

University of Milano-Bicocca, A.A. 2014-15

*Statistica Computazionale (24 hours)*

University of Milano-Bicocca, A.A. 2012-13, 2013-14

*Laboratorio Statistico Informatico Integrativo (24 hours)*

University of Milano-Bicocca, A.A. 2011-12

*Statistica II (Esercitatore) (24 hours)*

University of Milano-Bicocca, A.A. 2011-12, 2012-13, 2013-14

*Statistica II*

Ca' Foscari University of Venice, A.A. 2007-08

*Statistica 30001 (Esercitatore)*

Bocconi University, A.A. 2012-13, 2013-14

*Statistica I, Statistica II (Esercitatore)*

Ca' Foscari University of Venice, A.A. 2007-08

*Statistica Nonparametrica (Esercitatore)*

University of Padua, A.A. 2006-07, 2007-08

*Statistica Medica (Esercitatore)*

University of Padua, A.A. 2005-06

## TEACHING EXPERIENCE (GRADUATE LEVEL)

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*Statistical Inference II (15 hours)*

Ph.D. in Economics and Statistics, University of Milano-Bicocca, A.A. 2018-19, 2019-20 Cycles XXXIV, XXXV

*Computational Statistics (Module III) - Statistical Learning (12 hours)*

Ph.D. in Statistics and Mathematical Finance, University of Milano-Bicocca, A.A. 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, Cycles XXX, XXXI, XXXII, XXXIII, XXXIV, XXXV



## TEACHING EXPERIENCE (SHORT COURSES)

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Teacher for the short course on *Multivariate Analysis, I*  
Istituto Nazionale di Fisica Nucleare (INFN) School of Statistics 2019, Paestum, Italy

Teacher for the short course on *Statistical Learning, Ensemble Learning and High-Dimensional Data*  
SIS course Data Science on Digital Unstructured Sources, 2017, Milan, Italy

Teacher for the short course on *Test non parametrici classici e di permutazione*  
Biostat - Scuola di Alta Formazione Statistica 2016, Asti, Italy

Teacher for the short course on *Introduzione al Problema della Molteplicità dei Test; Il Modello lineare*  
Corso Statistica Applicata alla Ricerca Biomedica 2016, Milan, Italy

Teacher for the pre-conference course on *Multiple Hypothesis Testing in Genomics*  
36th Annual Conference of the International Society for Clinical Biostatistics, 2015, Utrecht, The Netherlands

Teacher for the short course on *Laboratorio sui test multipli*  
26° Corso di Metodologia Statistica per la ricerca biologica di base e applicata 2015, Gargnano del Garda, Italy

Teacher for the short course on *Inferenza statistica classica*  
Biostat - Scuola di Alta Formazione Statistica, 2012, Asti, Italy

## SUPERVISED STUDENTS

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2017 - today Ningning Xu, Ph.D candidate (supervisor: Jelle Goeman, co-supervisor: Aldo Solari).

2014 – 2018 Jesse Hemerik, Ph.D. Currently post-doc at University of Oslo. Thesis: *Permutation-based Inference for High-Dimensional Data* (supervisor: Jelle Goeman, co-supervisor: Aldo Solari).

## ADMINISTRATIVE AND PROFESSIONAL ACTIVITIES AND MEMBERSHIPS

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2020	Director of Data Science Lab, DEMS - University of Milano-Bicocca, financed by Department of Excellence 2018-2022 MIUR grant (March 2020 - present)
2020	Member Admission Committee PhD in Economics and Statistics (XXXVI cycle), University of Milano-Bicocca, July 23-24
2019	Member Admission Committee PhD in Economics and Statistics (XXXV cycle), University of Milano-Bicocca, July 18-19
2018	Member Assessment Committee PhD in Statistics, University of Leiden, The Netherlands, May 1. Ph.D. candidate: Jesse Hemerik
2016	External examiner for PhD Thesis in Statistics - University of Padova, Italy, December 20. Ph.D. candidate: Khanh To Duc
2015	Member Assessment Committee PhD in Statistics, University of Leiden, The Netherlands, June 29. Ph.D. candidate: Rosa Meijer.
2014	Member Assessment Committee PhD in Statistics (comm. 911), University of Padua, April 11. Ph.D. candidate: Akram Yazdani
2012	Member Admission Committee PhD in Statistics (XXVIII cycle), University of Milano-Bicocca, September 27.
2011	Member Assessment Committee PhD in Statistics (comm. 370), University of Padua, September 20. Ph.D. candidate: Susanna Ragazzi
2015	Member of the jury, for the event <i>Stats under the Stars</i> , Padua, September 8
2011 - 2012	Member of Collegio dei Docenti Ph.D. in Statistics (DOT03HSSF), University of Milano-Bicocca, Cycles XXVII, XXVIII
2013 - 2017	Member of Collegio dei Docenti Ph.D. in Statistics and Mathematical Finance (DOT13C6575), University of Milano-Bicocca, Cycles XXIX, XXX, XXXI, XXXII, XXXIII
2018-2019	Member of Collegio dei Docenti Ph.D. in Economics and Statistics (DOT1889171), University of Milano-Bicocca, Cycles XXXIV, XXXV
2018	Presidente della Commissione Giudicatrice per il conferimento di incarichi per attività di tutorato - Scuola di Economia e Statistica, University of Milano-Bicocca, September 5
2014 - 2015	Member Commissione Orari - CdL SSE, CLAMSES, University of Milano-Bicocca, A.A. 2013/14, 2014/15

- 2016 – today Delegate of DEMS for Piano Nazionale Lauree Scientifiche (PLS) - Statistics of the University of Milano-Bicocca. Events organised (lectures e labs): *Factfulness: le statistiche come terapia - Laboratorio con R*, 19 and 20.02.2019; *Ancore e scimpanzé - Laboratorio con R*, 20 and 21.02.2018; *Probabilità e Statistica Descrittiva - Laboratorio con R*, 16 and 21.02.2017, 16 and 17.02.2016. Lectures: *Aspetti probabilistici del gioco d'azzardo*, 21.02.2019; *Introduzione al tema dei Big data*, 20.11.2018; *L'azzardo che ti rovina... probabilmente*, 22.02.2017, 26.04.2016; *Stimare l'Improbabile: errori comuni nella valutazione del rischio nel gioco d'azzardo* (joint with G. Monti e M. Schiavella), 22.09.2017.
- 2019 Talk *Come va il mondo? La risposta dei numeri* for the event *Primavera in Bicocca*, University of Milano-Bicocca, March 21, 2019
- 2010 – today Member of the *International Biometric Society - Italian Region*
- 2014 – today Member of *NeuroMi - Milan Center for Neuroscience*
- 2007 – today Referee for many international journals, among which *Annals of Statistics*, *Biometrical Journal*, *Biometrics*, *Biometrika*, *Computational Statistics*, *Computational Statistics and Data Analysis*, *Electronic Journal of Statistics*, *Journal of the American Statistical Association*, *Journal of Statistical Software*, *Journal of the Royal Statistical Society - B and C*, *Scandinavian Journal of Statistics*, *Social Indicators Research*, *Stat*, *Statistica Sinica*, *Statistical Applications in Genetics and Molecular Biology*, *Statistical Methods in Medical Research*, *Statistics and Probability Letters*, *Statistics in Medicine*, *Statistics and Computing*, *The American Statistician*.

#### ORGANIZATION OF SCIENTIFIC CONFERENCES

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- 2020 Member of the Scientific Committee for the European R Users Meeting, Milan, Italy, May 20-27
- 2015 Member of the Local Organizing Committee for the Joint Meeting of the IBS, Austro-Swiss and Italian Regions, Milan, Italy, June 15–19

#### AWARDS

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- 2014 Best poster award - 47th Scientific meeting of the Italian Statistical Society, Cagliari, Italy, June 11–13
- 2012 The Hans van Houwelingen Award Biometry Award 2012  
<https://www.vvsor.nl/biometrics/pages/awards-funds/>  
 for the publication Goeman J.J. and Solari A. (2011). Multiple Testing for Exploratory Research. *Statistical Science* Volume 26, Number 4, 584-597 ISSN: 0883-4237

#### LANGUAGES

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Italian (mother tongue), English (fluent), Spanish (basic)