

Michela Gianna BIA

*Researcher at the Luxembourg Institute of Socio-Economic Research, Liser
Labour Market Department*

Maison des Sciences Humaines--11, Porte des Sciences

L-4364 Esch-sur-Alzette, Luxembourg

Phone: 352 58 58 55 – 220; Email: michela.bia@liser.lu; michela.bia@uniupo.it

EDUCATION

Spring 2007

PhD in Applied Statistics, University of Florence (Italy).

Spring 2006

Visiting Student Researcher, Department of Agricultural & Resource Economics, University of California, Berkeley.

Fall 2004

Econometrics School of Bertinoro, CIDE - Centro Interuniversitario di Econometria (Italy).

Spring 2002

Degree (summa cum laude) in Economics and Political Science. Field of specialization: Statistics, “University of Piemonte Orientale, Amedeo Avogadro” (Italy).

FIELD OF SPECIALIZATION

Causal inference, program evaluation, nonparametric techniques, panel data, labor market, applied econometrics, high – dimensional data

COURSES

Fall 2019

Invited Professor “Course in Data Analysis: from Survey Data to Big Data”, PhD DSHSS – Program, University of Luxembourg (with Prof. Conchita D’Ambrosio).

Fall 2018

Invited Professor “Course in Data Analysis: from Survey Data to Big Data”, PhD DSHSS – Program, University of Luxembourg (with Prof. Conchita D’Ambrosio).

Spring 2017

Instructor of the Workshop on “*Generalized Propensity Score Matching and its Implementation in Stata*”, Stata Meeting, Humboldt University, Berlin, Germany.

Fall 2016

Instructor of the Workshop on “*Generalized Propensity Score Matching and its Implementation in Stata*”, Potsdam Center for Quantitative Research, Potsdam University, Germany.

Spring 2012

Training Session on *Causal Inference for Policy Evaluation: case studies and statistical complications*, Research and Expertise Centre for Survey Methodology, Department of Political and Social Sciences, Pompeu Fabra University, Barcelona.

Spring 2011

Invited Professor “*Course in Economic and Social Statistics - Data analysis*”, Economic Science (EPPAC - LM56), POLIS Department, University of Piemonte Orientale “Amedeo Avogadro”.

Fall 2010

Invited Professor “*Course in Economic and Social Statistics - Data analysis*”, Economic Science (EPPAC - LM56), POLIS Department, University of Piemonte Orientale “Amedeo Avogadro”.

Spring 2010

Training Session on “*Causal Inference for Social Statistics and Public Policy Evaluation*”, Graduate School in Social, Economic and Political Science, Department of Labor and Welfare Studies, University of Milan.

Fall 2009

Invited Professor “*Course Economics and Social Statistics - Data analysis*”, Economic Science (EPPAC - LM56), POLIS Department, University of Piemonte Orientale “Amedeo Avogadro”.

Spring 2009

Teaching Assistant “*Course in Econometrics I*”, Undergraduate Course - Statistics for the Social Sciences, Faculty of Political Science, University of Turin.

RECENT SEMINARS

Fall 2017

Invited Speaker “*Evaluation of Language Training Programs using Principal Stratification: the case of Luxembourg*”, Berlin Applied Micro Seminar - BAMS, Humboldt University, Germany.

Summer 2014

Invited Speaker “*Nonparametric estimators of dose-response functions: a simulation study using Job Corps data*”, Department of Statistics, Informatics, Applications “G. Parenti”, University of Florence.

Spring 2012

Invited Speaker “*Nonparametric Estimators of Dose-response Functions*”, Research Institute for the Evaluation of Public Policies – IRVAPP, Trento.

Spring 2011

“*Assessing the effect of R&D contributions to Luxembourgish firms: a nonparametric approach*”, LISER, Luxembourg.

Fall 2010

Invited Speaker “*Propensity score reweighted regression for gender pay gap analysis*”, Laboratoire EQUIPPE, University of Lille 1.

RECENT WORKSHOPS AND CONFERENCES

December 14th/16th, 2019

12th International Conference of the ERCIM Working Group on Computational and Methodological Statistics, London, UK.

April 11th/13th, 2018

EUROCIM -- European Causal Inference Meeting, Florence, Italy.

October 6th, 2017

13th IZA Conference: ‘*Labor Market Policy Evaluation*’, Bonn, Germany.

July 13th/14th, 2017

‘*Causal Inference, Program Evaluation and External validity*’, Liser, Luxembourg (scientific organizer of the conference).

June 13th/17th, 2016

ISBA - *International Society for Bayesian Analysis*, Forte Village Resort Convention Center Sardinia, Italy.

June 8th/9th, 2016

48th Scientific Meeting of the Italian Statistical Society – Solicited Session: *Statistical Models for evaluating Policy Impact*, University of Salerno, Italy.

August, 8th/13th, 2015

JSM 2015, Joint Statistical Meetings (American Statistical Association), *Statistics: Making Better Decisions*, Seattle, USA.

June, 15th/17th, 2015

INGRID – Expert workshop *Local statistics for decision-making on well-being and vulnerability*, Livorno, Italy.

June, 9th/12th, 2015

Social and labor market policy evaluation with administrative data, LISER, Luxembourg (scientific organizer of the conference).

September, 11th/12th, 2014

Stata Users Group meeting, London, UK.

August, 2nd/7th, 2014

JSM 2014, Joint Statistical Meetings (American Statistical Association), *Statistics: Global Impact – Past, Present and Future*, Boston, Massachusetts, USA.

June, 19th/21st, 2013

SIS 2013, Brescia, Italy.

March 10th/13th, 2013

ENAR International Biometric Society, at the invited session “*Designs and Inference for Causal Effects*”, Orlando World Center Marriott Resort, USA (keynote speakers: Don Rubin, Dylan Small, Fan Li).

May 21st/25th, 2012

Theory and Practice of Program Evaluation, LISER, Luxembourg (organizer of the workshop, keynote speakers: Guido Imbens, Fabrizia Mealli, Alfonso Flores-Lagunes).

PEER-REVIEWED PUBLICATIONS

Bia, M., Mattei A., Mercatanti A., 2019

“*Assessing Causal Effects in a longitudinal observational study with ‘truncated’ outcomes due to unemployment and nonignorable missing data*”, *Journal of Business and Economic Statistics* (accepted with minor revision).

Bia M., Condo J., Kallestrup P., Lygidakis C., Uwizihiwe J.P., Vögele (2019)

“*Community- and mHealth-based integrated management of diabetes in primary healthcare in Rwanda (D²Rwanda): the protocol of a mixed-methods study including a cluster randomised controlled trial*”, *BMJ Open*, vol. 9(7), (First Online: 24 July 2019).

(<http://dx.doi.org/10.1136/bmjopen-2018-028427>)

Bia M., Blanco G., 2019

“*Inference for treatment effects of job training on wages: using bounds to compute Fisher’s exact p-value*”, *Applied Economics Letters*, 26(17), 1424 – 1428.

(<https://doi.org/10.1080/13504851.2018.1564113>)

Bellani L, Bia M., (2019)

“*The Long-Run Impact of Childhood Poverty and the Mediating Role of Education*”. *Journal of the Royal Statistical Society: Series (A)*, 182(1), 37-38. (<https://doi.org/10.1111/rssa.12388>).

Bellani L, Bia M., (2017)

“*The Impact of growing up poor in the EU*”. Atkinson, T. and Marlier, E., editors, *Income, work and deprivation in Europe*. Eurostat Statistical.

Bia M., Flores C., Flores-Lagunes A., Mattei A. (2014)

“*A Stata package for the application of semiparametric estimators of dose-response functions*”, *The Stata Journal*, 14(3), 580-604.

(<https://journals.sagepub.com/doi/pdf/10.1177/1536867X1401400307>)

Bia M., Van Kerm P. (2014)

“*Space filling location selection*”, *The Stata Journal*, 14(3), 605-622.

(<https://journals.sagepub.com/doi/pdf/10.1177/1536867X1401400308>)

Bia M., Flores C., Flores-Lagunes A., Mattei A. (2013)

“*Nonparametric estimators of dose-response functions*”, in *Advances in Latent Variables*, Eds. Brentari E., Carpita M., Vita e Pensiero, Milan, Italy, ISBN 978 88 343 2556 8.

Bia M., Mattei A. (2012)

“*Assessing the Effect of the Amount of Financial Aids to Piedmont Firms Using the Generalized Propensity Score*” *Statistical Methods and Applications*, 21, 485-516.

(<https://link.springer.com/article/10.1007/s10260-012-0193-4>)

Bia M., Pasquariello M., Cassone A. (2011)

“*Local labor systems of North-West Italian regions: the results of a territorial economic analysis through the principal component analysis*”, *Rivista di Economia e Statistica del Territorio*, (1), 43-81.

Bia M., Mattei A. (2008)

“*A Stata Package for the Estimation of the Dose-Response Function through Adjustment for the Generalized Propensity Score*”, *The Stata Journal*, 8(3), 354-37.

(<https://journals.sagepub.com/doi/pdf/10.1177/1536867X0800800303>)

PEER-REVIEWED PUBLISHED SOFTWARES

Bia M., Flores, C., Flores-Lagunes A., Mattei A., (2014) “*DRF: Stata module for the application of semiparametric estimators of dose-response functions*”, *Statistical Software Components*, Boston College Department of Economics.

Bia M., P. Van Kerm, (2014) “SPACEFILL: *Stata module* to implement a space-filling location selection algorithm”, Statistical Software Components, Boston College Department of Economics.

Bia M., Mattei A., (2009) “DOSERESPONSE: *Stata module* to estimate dose-response function through adjustment for the generalized propensity score”, Statistical Software Components, Boston College Department of Economics.

WORKING PAPERS

Bia M., Flores-Lagunes A., Mercatanti A. (2019)

“*Evaluation of Language Training Programs in Luxembourg using Principal Stratification*”, IZA DP No. 11973.

Bellani L., Bia M., (2017)

“*The Long-Run Impact of Childhood Poverty and the Mediating Role of Education*”, IZA Discussion Paper No. 10677.

Bia M., Flores C., Flores-Lagunes A., Mattei A. (2014)

“*A Stata package for the application of semiparametric estimators of dose-response functions*”, LISER working paper series, n° 2013-17.

Bia M., Van Kerm P. (2013)

“*Space filling location selection*”, LISER working paper series, n° 2013-17.

Bia M., Flores C., Mattei A. (2011)

“*Nonparametric Spline-Based Estimators of Dose-Response Functions*”, LISER working paper series n° 2011-40.

REFEREEING

Sage Publication ‘Propensity Score analysis’, Advanced Quantitative Techniques in the Social Sciences, Statistical Methods and Applications, Research in Economics Journal, Statistica, Bio-Medical Research Methodology, Review of Income and Wealth, Observational Studies, Statistics in Medicine, Empirical Economics, Journal for Labour Market Research, Research Policy, Statistical Methods in Medical Research, Journal of the Royal Statistical Society: Series (A), Journal of Applied Econometrics.

SUPERVISION

Supervision of 2 on-going projects for PhD theses -- DSHSS Program, University of Luxembourg (responsible of the statistical and methodological part) (with Prof. Conchita D’Ambrosio and Claus Vögele). Titles of the PhD projects: "Effects of an e-learning platform to improve primary care physicians response to family violence" (Raquel Gómez Bravo); Community and Health-Based Integrated Management of Diabetes in Primary Healthcare in Rwanda. The D2Rwanda Study (Charilaos Lygidakis).

ON GOING AND COMPLETED PROJECTS

PI of the Project “European Social Fund (ESF) Project on the Evaluation of Active Labor Market Policy in Luxembourg” – EvaLab4Lux, 2015-2018, (€485,000) (competitive fund/international project).

PI of the Project “Evaluation du programme opérationnel du Fonds Social Européen au titre de l’objectif ‘Investissement pour la croissance et l’emploi’ ”, 2018-2021, (€120,678) PI Michela Bia (competitive fund).

PI of the AFR Grant ‘Fonds National de la Recherche in Luxembourg’, “Semi-parametric and non-parametric methods for the estimation of direct, indirect causal effect in policy evaluation”, 2010-2012, (€93,000) (competitive fund).

Scientific contact of the CORE “Optimal policies in the market for childcare: theory and evidence from Luxembourg - Childcare”, 2015-2018, PI Arnaud Dupuy/Bertrand Verheyden (€613 047) (competitive fund).

Scientific contact of the CORE “Evaluation of parental leave in Luxembourg, focus on couples’ strategies and the role of workplace characteristics – PARENT”, 2019 – 2021, PI Marie Valentova, (€540,000) (competitive fund).