

Curriculum vitae of PAOLA REBORA

PERSONAL INFORMATION

Born in Bollate (MI) on the 3th of July 1981 - Italian

CURRENT POSITION

Associate Professor in Medical Statistics, School of Medicine and Surgery, University of Milano-Bicocca;

CURRICULUM STUDIORUM

- 2010 *Doctoral studies in Biomedical Statistics* at the Institute of Medical Statistics and Biometry G.A. Maccacaro, University of Milan, thesis on: "Event history analysis: Robust non-parametric one-sample tests for the analysis of recurrent events".
- 2006 *Higher degree in Biostatistics and Experimental Statistics*-Statistics Science Dept., University of Milano-Bicocca ("Cancer risk in the families of leukemia cases". Final mark 110/110 cum laude).
- 2003 *Degree in Demographic, Social and Statistics Science*- Statistics Science Dept., University of Milano-Bicocca (Final Mark: 110/110).
- 2000 *Secondary school Diploma* (scientific studies)- Liceo Gerolamo Cardano, Milano.

WORKING EXPERIENCE

- 2016-20 Assistant Professor in medical statistics, School of Medicine and Surgery, *University of Milano-Bicocca*;
- 2013-16 Researcher in medical statistics, Dept. of Health Sciences, *University of Milano-Bicocca*;
- 2011-13 Research fellowship in medical statistics, Dept. of Health Sciences, *University of Milano-Bicocca*;
- 2007-11 Scholarships at the Dept. of Clinical Medicine and Prevention, *University of Milano-Bicocca*;
- 2005-06 Scholarship at Dept. of Medical Epidemiology and Biostatistics, *Karolinska Institute, Sweden*;
- 2003-05 Different project collaborations at the Institute of Medical Statistics and Biometry, *University of Milan*;
- 2003 Student collaboration at the *Statistics Science Dept, University of Milano-Bicocca* on teaching evaluation;
- Visiting periods:*
- 2007-14 Karolinska Institute - Medical Epidemiology and Biostatistics Dept: various visits from
- 2014 University of California San Francisco (UCSF) -Medical Epidemiology and Biostatistics Dept
- 2019 National University of Singapore (NUS) the Saw Swee Hock School of Public Health
- Maternity leaving: from 09/2015 to 02/2016 and from 09/2019 to 02/2020*

TEACHING EXPERIENCE

Lecturer of medical statistics for different undergraduate and graduate courses at the University of Milano-Bicocca; *Tutor and teacher in several national and international courses on different topics. Supervisor of the Master students in Nursing and midwifery sciences. Member of the PhD committee on Public Health University Milano-Bicocca (2013-2016 and from 2020); Member of the PhD committee on "Sviluppo Umano Sostenibile" University Milano-Bicocca (2017). Co-supervisor of the PhD student Myeongjee Lee (in Epidemiology) at the Dept. of Medical Epidemiology and Biostatistics, Karolinska Institute; Co-supervisor of the PhD student Xiaoqiu Liu on Biostatistics for cardiovascular studies. Member of the Board of the School of Specialization in Health Statistics and in the School of Pathological Anatomy. Coordinator of the Bicocca Summer School StatisticAlps "Extended Use Of Regression Models For New Epidemiologic Designs And Analyses", Sept 2018, Ponte di Legno (BS).*

RESEARCH TOPICS

- *Methodological research in statistics:** Design of two-phase studies on genetic/biological data nested in large clinical or epidemiological cohorts; Recurrent event analysis; Methods for studying familial cancer using population-based registers; Meta-analysis; Hazard estimate; analysis of time-to-event and longitudinal data, joint models, ordinal outcomes.
- *Applied research in medicine:** Collaborated in the design and analysis of several clinical studies. Some of them have inspired the methodological research mentioned above. Collaborations have been in the field of: oncohaematology, pneumology, cardiology, nursing, nephrology, geriatrics, genetic diseases, surgery and neurosurgery, metabolic syndrome in childhood, anesthesiology and emergency medicine. The main area of interest are: evaluation of frailty and its association with clinical outcomes, evaluation the prognostic value of biomarker in childhood acute lymphoblastic leukemia; hypertension; population-based studies on cancer risk; classification of nursing complexity; self-care evaluation in diabetic patients; anticoagulant treatment evaluation in end-stage renal disease patients with atrial fibrillation.

OTHER

- *Member of the following scientific societies: ISCB (International Society for Clinical Biostatistics), IBS (International Biometric Society), SISMEC (Società Italiana di Statistica Medica ed Epidemiologia Clinica).
- *Treasurer of the Italian Region of the International Biometric Society (2022-2023)
- *Secretary of the “National group” committee of the ISCB (2021-2023)
- *Treasurer of the local organizing committee of ISCB44 (Milano, 2023), in the local committee of the joint meeting of the Austro-Swiss and Italian Region of the International Biometric Society (IBS) during EXPO 15-19 June 2015.
- *In the board of statistician of the Intensive Care Medicine journal. Reviewer of the American Journal of Epidemiology (AJE), Biometrical Journal, Bionformatics, Blood, Journal of National Cancer Institute (JNCI), Journal of Statistical Theory and Practice, Plos One, Statistics in Medicine. Reviewer for the methodological aspects of research projects submitted to Fondazione Italiana di ricerca per la Sclerosi Laterale Amiotrofica (AriSLA) in 2015 and 2016. Reviewer for the “Call 2018 Cancer research projects in social and human sciences, epidemiology and public health” for the Institut National du Cancer (France).

NATIONAL AND INTERNATIONAL GRANTS

As Principal Investigator:

- *Scientific Independence Research (SIR) – Ministero dell’Istruzione, dell’Università e della Ricerca “IDEA: Innovative DEsigns and statistical Approaches for biomarker development” (RBSI14LOVD).2015-2018, €276,650
- *Italian Foundation for Cancer Research (FIRC) “Analysis of event-history data in cancer: modelling efficacy, safety and late effects of therapies”,2009-2011,€ 60,000
- *Regione Lombardia, Center to support Clinical Research (A0000352), 2007, € 34,808

Other relevant grants:

- *Researcher for the grant of the European Commission under FP7-HEALTH-F2-2011 “EUROPEAN NETWORK for CANCER research in CHILDREN and ADOLESCENTS”; WP 6 ‘Standardised and innovative methodology for clinical trial design and analysis’ (WP leader: M.G. Valsecchi)
- *CARIPO Call to help fight the Coronavirus emergency and other potential future viral emergencies 2020 “The effect of frailty on the clinical outcomes of patients infected by COVID-19 and on the risk of infection in the elderly: FraCOVID study” (PI: Prof. Giuseppe Bellelli)

LISTO OF THE 10 MOST RELEVANT PUBLICATIONS IN THE LAST 10 YEARS

ORCID ID: orcid.org/0000-0003-0606-5852

Scopus Author ID: 10143229600

1. Graziano F, Valsecchi MG, **Rebora P**. Sampling strategies to evaluate the prognostic value of a new biomarker on a time-to-event end-point. BMC Med Res Methodol 2021;21(1):93. doi: 10.1186/s12874-021-01283-0.
2. Arisido MW, Antolini L, Bernasconi DP, Valsecchi MG, **Rebora P**. Joint model robustness compared with the time-varying covariate Cox model to evaluate the association between a longitudinal marker and a time-to-event endpoint. BMC Med Res Methodol. 2019 Dec 3;19(1):222. doi: 10.1186/s12874-019-0873-y.
3. Pui CH, **Rebora P**, et al. Outcome of Children With Hypodiploid Acute Lymphoblastic Leukemia: A Retrospective Multinational Study J Clin Oncol 2019;37(10):770-779. doi: 10.1200/JCO.18.00822.
4. **Rebora P**, Antolini L, Glidden DV, Valsecchi MG. Crude incidence in two-phase designs in the presence of competing risks. BMC Med Res Methodol. 2016 Jan 11;16(1):5. doi: 10.1186/s12874-015-0103-1.
5. Bernasconi DP, **Rebora P**, Iacobelli S, et al. Survival probabilities with time-dependent treatment indicator: quantities and non-parametric estimators. Stat Med. 2015 Oct 26. doi: 10.1002/sim.6765.
6. **Rebora P**, Galimberti S, Valsecchi MG. Using multiple timescale models for the evaluation of a time-dependent treatment. Stat Med. 2015 Dec 10;34(28):3648-60. doi: 10.1002/sim.6597.
7. **Rebora P**, Valsecchi MG. Survival estimation in two-phase cohort studies with application to biomarkers evaluation. Stat Methods Med Res. 2016; 25(6): 895–2908. pii: 0962280214534411
8. **Rebora P**, Salim, A., Reilly, M. Bshazard: A flexible tool for nonparametric smoothing of the hazard function. The R Journal Vol. 6/2, December 2014. ISSN 2073-4859
9. Franca R, **Rebora P** et al. Glutathione S-transferase homozygous deletions and relapse in childhood acute lymphoblastic leukemia: a novel study design in a large Italian AIEOP cohort. Pharmacogenomics 2012;13:1905-16. doi: 10.2217/pgs.12.169.
10. **Rebora P**, Galimberti S. Sample size calculation for recurrent events data in one-arm studies. Pharm Stat. 2012 Nov-Dec;11(6):494-502. doi: 10.1002/pst.1541. ISSN: 1539-1604

