

PERSONAL INFORMATION

Alessandra Spagnoli

WORK EXPERIENCE

September 2014–Present

Biostatistician

European Assessment Unit - Italian Medicines Agency (AIFA), (Italy)

Statistical assessment in Centralized Procedures for Marketing Authorization

January 2012–May 2014

Postdoc in Statistics

Department of Statistical Sciences, Sapienza University of Rome, (Italy)

Research: Finite mixture models for multivariate response variables

Research interest: Survival Analysis, Mixed Effect Models, Informative drop-out, Hidden Markov Models, Joint Models, Finite Mixture Models

March 2013–October 2013

Biostatistician

Department of Pediatric Hematology/Oncology, IRCCS Bambino Gesù Children's Hospital, Rome, (Italy)

Clinical study design, statistical analysis

April 2010–December 2011

Biostatistician

Health Research Laboratory, Dermatological Institute IDI-IRCCS, Rome, (Italy)

Statistical analysis of longitudinal studies

September 2008–December 2009

Biostatistician

Department of Hematology, University of Rome Tor Vergata, (Italy)

Clinical study design, statistical analysis, manuscript writing support

October 2003–August 2008

Biostatistician

Department of Hematology, S. Eugenio Hospital, University of Rome Tor Vergata, (Italy)

Clinical study design, statistical analysis, manuscript writing support

June 2006–June 2007

Statistician

Cancer Registry of Latine Province, Santa Maria Goretti Hospital, Latina, (Italy)

Analysis of epidemiology data

EDUCATION AND TRAINING

September 2011–

PhD in Statistical Methodology

Department of Statistical Sciences, Sapienza University of Rome, (Italy)

Thesis topic: Modelling longitudinal data with attrition: does crisis lead to dropout?

August 2010–September 2010

Visiting PhD student

School of Mathematics and Statistics, University of School of Mathematics and Statistics, University of Newcastle, Newcastle upon Tyne, (United Kingdom)

Prof. Robin Henderson

March 2010– **New Bayesian methods for model comparison**
Lancaster University, Lancaster, (United Kingdom)

September 2009–March 2010 **Visiting PhD student**
Department of Medical Statistics and Bioinformatics, Leiden University Medical Centre, Leiden, (Netherlands)
Prof. Jeanine J. Houwing Duistermaat

September 2009– **Frailty models: Multivariate survival analysis with application in medicine**
Erasmus Medical Faculty, Rotterdam , (Netherlands)

April 2009– **First National Conference BIAS**
Italian Society of Medical Statistics and Clinical Epidemiology, Sesto Fiorentino, (Italy)

February 2007– **Introduction to R**
Department of Statistical Sciences, Sapienza University of Rome, (Italy)

June 2006– **Survival Analysis**
Department of Mathematics, University of Rome Tor Vergata, (Italy)

February 2005– **Methodology of clinical control studies**
Italian Society of Medical Statistics and Clinical Epidemiology, Monza, (Italy)

May 2003– **Doctor's Degree In Statistics and Economics**
Department of Statistical Sciences, Sapienza University of Rome, (Italy)
Thesis topic: Statistical models for analyzing repeated measures and their application in biomedicine

May 2002– **Multivariate Statistical Analysis using SAS**
Department of Statistical Sciences, Sapienza University of Rome, (Italy)

ADDITIONAL INFORMATION

Expertise Biostatistics, Methodology, Clinical Trial

Publications Spagnoli A, Houwing-Duistermaat JJ, Alfò M. Mixed effect models for longitudinal responses with different type of dropout: the Leiden 85-plus study, 2014. Journal of Applied Statistics (2nd revision)
De Sanctis V, Agolli L, Visco V, Monaco F, Muni R, Spagnoli A, Campanella B, Valeriani M, Minniti G, Osti MF, Amanti C, Pellegrini P, Brunetti S, Costantini A, Alfò M, Torrasi MR, Marchetti P, Enrici RM. Cytokines, fatigue, and cutaneous erythema in early stage breast cancer patients receiving adjuvant radiation therapy. Biomed Res Int. 2014; Epub 2014 Mar 31
Spagnoli A, Alfò M. Random coefficient based dropout models: a finite mixture approach. 2012 Di-CLEUP, Padova. Atti della Riunione Scientifica Società Italiana di Statistica
Tabolli S, Naldi L, Pagliarello C, Sampogna F, di Pietro C, Spagnoli A, Abeni D; Italian Writing Exercise Study Group. Evaluation of the impact of writing exercises interventions on quality of life in patients with psoriasis undergoing systemic treatments. Br J Dermatol. 2012 Dec;167(6):1254-64

- Sampogna F, Spagnoli A, Di Pietro C, Pagliarello C, Paradisi A, Tabolli S, Abeni D. Field performance of the Skindex-17 quality of life questionnaire: a comparison with the Skindex-29 in a large sample of dermatological outpatients. *J Invest Dermatol.* 2013 Jan;133(1):104-9
- Tabolli S, Sampogna F, Pagliarello C, Paradisi A, Spagnoli A, Abeni D. Disease severity evaluation among dermatological out-patients: a comparison between the assessments of patients and physicians. *J Eur Acad Dermatol Venereol.* 2012 Feb;26(2):213-8
- Maurillo L, Venditti A, Spagnoli A, Gaidano G, Ferrero D, Oliva E, Lunghi M, D'Arco AM, Levis A, Pastore D, Di Renzo N, Santagostino A, Pavone V, Buccisano F, Musto P. Azacitidine for the treatment of patients with acute myeloid leukemia: report of 82 patients enrolled in an Italian Compassionate Program. *Cancer.* 2012 Feb 15;118(4):1014-22
- Spagnoli A, Henderson R, Houwing Duistermaat JJ A Hidden Markov model for informative dropout in longitudinal response data with crisis states. *Statistics and Probability Letters* 2011, 81(7), 730-738
- Tabolli S, Spagnoli A, di Pietro C, Pagliarello C, Paradisi A, Sampogna F, Abeni D Assessment of the health status of 2,499 dermatological outpatients using the 12-item Medical Outcomes Study Short Form (SF-12) questionnaire. *Br J Dermatol.* 2011 Dec;165(6):1190-6
- Tendas A, Niscola P, Cupelli L, Spagnoli A, Scaramucci L, Giovannini M, Ales M, Cudillo L, Picardi A, Mirabile M, Bove F, Falco S, Dentamaro T, Fabritiis Pd. Controversies on antibiotic lock technique duration: experience with a 3-day course for hematological patients. *Infect Control Hosp Epidemiol.* 2011 Apr;32(4):408-10
- Spagnoli A, Henderson R, Houwing Duistermaat JJ. Mixed effect models for longitudinal responses. 2010 Di-CLEUP,Padova. *Atti della Riunione Scientifica Società Italiana di Statistica*
- Romeo A, Chierichini A, Spagnoli A, Vittori M, Vacca M, Gozzer M, Spadea A, Anaclerico B, Dessanti ML, D'Andrea M, Toglia G, Annino L, Petti MC, Mengarelli A, Arcese W; Rome Transplant Network. Standard- versus high-dose lenograstim in adults with hematologic malignancies for peripheral blood progenitor cell mobilization. *Transfusion.* 2010 Nov;50(11):2432-46
- Buccisano F, Maurillo L, Spagnoli A, Del Principe MI, Fraboni D, Panetta P, Ottone T, Consalvo MI, Lavorgna S, Bulian P, Ammatuna E, Angelini DF, Diamantini A, Campagna S, Ottaviani L, Sarlo C, Gattei V, Del Poeta G, Arcese W, Amadori S, Lo Coco F, Venditti A. Cytogenetic and molecular diagnostic characterization combined to postconsolidation minimal residual disease assessment by flow cytometry improves risk stratification in adult acute myeloid leukemia. *Blood.* 2010 Sep 30;116(13):2295-303
- Musto P, Maurillo L, Spagnoli A, Gozzini A, Rivellini F, Lunghi M, Villani O, Aloe-Spiriti MA, Venditti A, Santini V; Ad Hoc Italian Cooperative Study Group on Azacitidine in Myelodysplastic Syndromes Acute Leukemias. Azacitidine for the treatment of lower risk myelodysplastic syndromes : a retrospective study of 74 patients enrolled in an Italian named patient program. *Cancer.* 2010 Mar 15;116(6):1485-94
- Santarone S, Bacigalupo A, Risitano AM, Tagliaferri E, Di Bartolomeo E, Iori AP, Rambaldi A, Angelucci E, Spagnoli A, Papineschi F, Tamiasso S, Di Nicola M, Di Bartolomeo P. Hematopoietic stem cell transplantation for paroxysmal nocturnal hemoglobinuria: long-term results of a retrospective study on behalf of the Gruppo Italiano Trapianto Midollo Osseo (GITMO). *Haematologica.* 2010 Jun;95(6):983-8
- Buccisano F, Maurillo L, Spagnoli A, Del Principe MI, Ceresoli E, Lo Coco F, Arcese W, Amadori S, Venditti A. Monitoring of minimal residual disease in acute myeloid leukemia. *Curr Opin Oncol.* 2009 Nov;21(6):582-8
- Caravita T, Siniscalchi A, Tendas A, Cupelli L, Dentamaro T, Natale G, Spagnoli A, de Fabritiis P. High-dose therapy with autologous PBSC transplantation in the front-line treatment of Waldenstrom's macroglobulinemia. *Bone Marrow Transplant.* 2009 Apr;43(7):587-8
- Maurillo L, Buccisano F, Del Principe MI, Del Poeta G, Spagnoli A, Panetta P, Ammatuna E, Neri B, Ottaviani L, Sarlo C, Venditti D, Quaresima M, Cerretti R, Rizzo M, de Fabritiis P, Lo Coco F, Arcese W, Amadori S, Venditti A. Toward optimization of postremission therapy for residual disease-positive patients with acute myeloid leukemia. *J Clin Oncol.* 2008 Oct 20;26(30):4944-51
- de Fabritiis P, Spagnoli A, Di Bartolomeo P, Locasciulli A, Cudillo L, Milone G, Busca A, Picardi A, Scimè R, Bonini A, Cupelli L, Chiusolo P, Olivieri A, Santarone S, Poidomani M, Fallani S, Novelli A, Majolino I. Efficacy of caspofungin as secondary prophylaxis in patients undergoing allogeneic stem cell transplantation with prior pulmonary and/or systemic fungal infection. *Bone Marrow Transplant.* 2007 Aug;40(3):245-9
- Maurillo L, Buccisano F, Spagnoli A, Del Poeta G, Panetta P, Neri B, Del Principe MI, Mazzone C, Consalvo MI, Tamburini A, Ottaviani L, Fraboni D, Sarlo C, De Fabritiis P, Amadori S, Venditti A. Monitoring of minimal residual disease in adult acute myeloid leukemia using peripheral blood as an

alternative source to bone marrow. *Haematologica*. 2007 May;92(5):605-11

Gentile G, Picardi A, Capobianchi A, Spagnoli A, Cudillo L, Dentamaro T, Tendas A, Cupelli L, Ciotti M, Volpi A, Amadori S, Martino P, de Fabritiis P. A prospective study comparing quantitative Cytomegalovirus (CMV) polymerase chain reaction in plasma and pp65 antigenemia assay in monitoring patients after allogeneic stem cell transplantation. *BMC Infect Dis*. 2006 Nov 21;6:167

Picardi A, Tamburini A, Caravita T, De Angelis C, Ballatore G, Spagnoli A, Malerba C, Calugi A, de Fabritiis P, Amadori S. Diagnosis of acute foetal distress does not preclude banking of umbilical cord blood units. *Transfus Med*. 2006 Oct;16(5):349-54

Mancinelli F, Tamburini A, Spagnoli A, Malerba C, Suppo G, Lasorella R, de Fabritiis P, Calugi A. Optimizing umbilical cord blood collection: impact of obstetric factors versus quality of cord blood units. *Transplant Proc*. 2006 May;38(4):1174-6

Tamburini A, Malerba C, Mancinelli F, Spagnoli A, Ballatore G, Bruno A, Crescenzi F, de Fabritiis P, Calugi A. Evaluation of biological features of cord blood units collected with different methods after cesarean section. *Transplant Proc*. 2006 May;38(4):1171-3

Projects "Multivariate Statistical Models for risk assesment", PRIN 2011 (Investigator)

Memberships

Other Relevant Information

Referee: *Statistics in Medicine*, SIS meeting 2012, *Metron* (International Journal of Statistics), *Statistics and Probability Letters*

Computer skills (Statistical and Mathematical Packages): R, SAS, SPSS, SEER-Stat, S-Plus, Matlab
Teaching Experience

AY 2014-2015 Statistical Instructor: Prevention and Epidemiology (Health Profession Science, and Diagnostic techniques), Faculty of Pharmacy and Medicine Sapienza, University of Rome, Latina, Italy

AY 2014-2015 Statistical Instructor: Medical Statistics (Integrated course in Statistics and Computer Science), University of Rome Tor Vergata, Italy

Jul 2014 Statistical Instructor: Medical Statistics, (Master course: Statistical methods for biomedical research), Department of Statistical Sciences, Sapienza University of Rome, Italy

Sep 2014 Statistical Instructor: Medical Statistics (Master course: Planning and analysis of observational and experimental studies), Department of Statistical Sciences, Sapienza University of Rome, Italy

Feb 2014 Statistical Instructor: Introduction to R (SOSE- public owned company and the methodological partner of the Tax Administration), Faculty of Pharmacy and Medicine, Sapienza University of Rome

AY 2013-2014 Statistical Instructor: Medical Statistics (Integrated course in Statistics and Computer Science), University of Rome Tor Vergata, Italy

Sep 2012 Statistical Instructor: Medical Statistics Master course: Planning and analysis of observational and experimental studies), Faculty of Pharmacy and Medicine, Sapienza University of Rome, Italy

AY 2013-2014 Teaching assistant: Analysis of Survival and Longitudinal Data Department of Statistical Sciences Sapienza, University of Rome, Italy

AY 2013-2014 Teaching assistant: Statistics, Faculty of Economics, Sapienza University of Rome, Latina, Italy

AY 2012-2013 Teaching assistant: Statistics, Faculty of Economics, University of Rome Roma Tre, Italy

AY 2011-2012 Teaching assistant: Statistics, Faculty of Political Sciences, University of Rome Roma Tre, Italy

AY 2011-2012 Teaching assistant: Statistics, Faculty of Economics, University of Rome Roma Tre, Italy

Jul 2011 Statistical Instructor: Statistics, PhD program in molecular Biology, PHD school BEM, Sapienza University of Rome, Italy