

Personal Info

Born April 10, 1989 Licence driving (car & motobike)

Contact

BPH (U1219), 146 rue Léo-Saignat 33076 Bordeaux

Mail

antoine.barbieri @u-bordeaux.fr

Programming

R, SAS, JMP STATA, LaTeX, BUGS language

Languages

French mother tongue English professional

Personal Skills

Team player, curiosity, flexible.

Interests

Travels, tennis, handball, ski.

Other Info

Handball: vice champion of France (2006) and champion of France (2007) -18s with Montélimar-Cruas

Antoine Barbieri

https://www.math.u-bordeaux.fr/ abarbieri/

Experience

09/18 - now Maître de conférences

Université de Bordeaux - INSERM U1219

Research activity: Bordeaux population health center (Biostatistic team) Teaching activity: Unité de Formation Mathématiques et Interactions.

02/18 - 08/18 Post-doctoral researcher

INSERM UMRS1138, Paris

Keywords: Joint model, multivariate responses, Bayesian variable selection.

10/16 - 12/17 Post-doctoral researcher

Université Catholique de Louvain, Belgique

Keywords: Joint modeling, mixture cure model, MCMC methods, prediction.

03/16 - 06/16 **Biostatistician** Biometrics unit, ICM, Montpellier, France

Identification of patient profiles according to the quality of life data.

2013 - 2016 Ph.D. in Biostatistics

UM & ICM, Montpellier, France

Thesis entitled: Longitudinal methods for the analysis of the health-related quality of life in oncology.

Keywords: latent variable regression models, longitudinal analysis, categorical data, oncology.

03/12 - 08/12 Internship in M.Sc

R&D Sanofi, Montpellier, France

Development and implementation of fully objective Bayesian methods for the Behrens-Fisher problem during research experiments. *Keywords: Bayesian model choice, MCMC algorithm, prior calibration.*

Education

2013 - 2016 Ph.D. in Biostatistics

University of Montpellier, France

Supervised by Christian Lavergne and Caroline Mollevi, at the *Institut Mon*pelliérain Alexander Grothendieck in collaboration with the *Institut régional du* Cancer Montpellier (ICM) - Val d'Aurelle.

2010 - 2012 Master's Degree in Biostatistics

University of Montpellier 2 (science and technology) in partnership with the SupAgro Montepllier, Montpellier, France.

2007 - 2010 Bachelor's Degree in Mathematics, Computing and Social Sciences

Specializing in mathematics, programming and cognitive sciences.

University of Pierre Mendès France, Grenoble, France.

Teaching

2018 - 2019 **Teaching assistant (128h)**

Université de Bordeaux, France

Teachings for Bachelor's and master degree students in statistics Regression models, hypothesis tests, time series.

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2016 - 2017 **Teaching assistant (60h)**

Université Catholique de Louvain, Belgium

Tutorial Classes (TC) for Bachelor's degree students in Probabilities and Biostatistics

2013 - 2016 **Teaching assistant (130h30)**

University of Montpellier, France

TC for Bachelor's degree students in Mathematics for biologist, Descriptive statistics and probability, Probabilities, Introduction to R.

Scientific Productions (Main selected)

Publications, articles in peer-reviewed journal

- Barbieri A and C Legrand. Joint longitudinal and time-to-event cure models to improve the assessment of being cured. Accepted in *Statistical Methods in Medical Research*, 2019.
- Barbieri A, Tami M, Bry X, Azria D, Gourgou S, Mollevi C and Lavergne C. EM algorithm estimation of a structural equation model for the longitudinal study of the quality of life. *Statistic in Medicine*, 2018.
- Barbieri A, Peyhardi J, Lavergne C, Conroy T, Gourgou S and Mollevi C. Item response models for the longitudinal analysis of health-related quality of life in cancer clinical trials. *BMC medical research methodology*, 2017.
- Barbieri A, Anota A, Conroy T, Gourgou S, Juzyna B, Bonnetain F, Lavergne C and Mollevi C. Applying longitudinal model from Item Response Theory to assess the Health-Related Quality of Life in PRODIGE 4 / ACCORD 11 randomized trial. *Medical Decision Making*, 2016.
- Barbieri A, Marin J.M and Florin K. A fully objective Bayesian approach for the Behrens-Fisher problem using historical studies. *Under revision in Journal de la SFDS*.

Communications in international events

- [Poster] Barbieri A, Legrand C. Joint longitudinal and survival-cure models to improve the assessment of being cured in oncology studies. *38th Annual Conference of the International Society for clinical Biostatistics (ISCB)*, July 2017, Vigo (Spain). (Best Poster Award in the session Bayesian methods and joint modelling).
- [Orale] Barbieri A et al. Mixed-effects regression Models for longitudinal Analysis of Quality of Life in Oncology. 21th Annual Conference of the International Society for Quality of Life Research (ISOQOL), October 2014, Berlin (German).
- [Orale] Barbieri A et al. Random effect Models for Quality of Life Analysis in Oncology. 35th Annual Conference of the International Society for clinical Biostatistics (ISCB), August 2014, Vienna (Austria).

Oral communications in French events

- Barbieri A et al. Étude longitudinale de la Qualité de Vie en cancérologie par mélanges de modèles mixtes (simulation study). 48ème journée de statistique de la SFDS. June 2016, Montpellier.
- Barbieri A et al. Partial Credit Model with random effects for Quality of Life longitudinal analysis. *Workshop Evaluation et analyse de la qualité de vie : nouveaux développements méthodologiques*, April 2014, Montpellier.

Workshop

Workshop INSERM 255, guest speaker, May 2019.

Seminars

- Statistical seminar of Bordeaux, Université de Bordeaux, November 2018.
- Seminar ISBA, Université Catholique de Louvain, November 2016.
- Seminar EPSILON, Université Paul-Valéry Montpellier 3, March 2016.
- Seminar for Ph.D. students, University of Montpellier, April 2014.

Supervision

2015 Master Student

ICM - Val d'Aurelle, France

Laila Abach, Application and comparison of three statistical methods for the longitudinal analysis of the health-related quality of life on clinical trial data. (Co-supervision – Master 2 Applied statistics)