

Isadora Antoniano Villalobos

Decision Sciences and Business Analytics

ISADORA.ANTONIANO@UNIBOCCONI.IT

Via Roentgen 1 (3rd floor)

Tel. +39 02 5836 5366 Fax. +39 02 5836 5634

Curriculum Vitae

PhD in Statistics at SMSAS, University of Kent, UK (2008–2012). Thesis: Bayesian Inference for Models with Infinite-Dimensionally Generated Intractable Components. Advisor: Stephen G. Waker.

MSc in Mathematical Sciences at IIMAS, UNAM, Mexico (2006–2008). Thesis: The neutral mutation Fleming–Viot process from a Bayesian perspective (in Spanish). Advisor: Ramses H. Mena

Applied Mathematics degree at ITAM, Mexico (2000–2005). Thesis: Simulated annealing applied to the electoral districting problem (in Spanish). Advisor: José Luis Farah Ibáñez

Academic position and/or Professional activities

Assistant Professor of Decision Sciences

2012–2014 Department of Decision Sciences

Bocconi University, Milan, Italy

External Research collaborator

Lecturer: Statistics (Bachelor's degree level)

Teaching assistant: Statistics for Economics and Business (Master's level)

2010– 2012 Unit for Enhanced Learning and Teaching (UETL)

University of Kent, Canterbury, UK

Tutor for the Stats Clinic, providing support on statistics related subjects for all University of Kent students, as part of the Student Learning Advisory Service.

2009– 2012 School of Mathematics, Statistics and Actuarial Science (SMSAS)

University of Kent

Tutor for undergraduate courses (Psychology Statistics; Probability and Statistics for Actuarial Science)

Marking for undergraduate courses (Psychology Statistics; Probability and Statistics for Actuarial Science; Linear Algebra; Groups, Rings and Fields; Geometry; Analysis)

2003 – 2004 Instituto Luis Vives (high school)

Probability and Statistics teacher for senior year students.

2002– 2003 Instituto Tecnológico Autónomo de México (ITAM)

Mathematics, Probability and Statistics tutor for undergraduate students.

Research Interests

- Bayesian Nonparametric models and methods for inference in the presence of intractable likelihoods and high-dimensional parameter spaces
- Regression models, time series models Markov random fields and the relation between them
- Bayesian consistency and convergence properties.

Publications

- Antoniano-Villalobos, I. and Walker S. G. (2015) Bayesian Consistency for Markov Models. *Sankhya A: Volume 77, Issue 1*, pages 106–125
- Antoniano-Villalobos, I., Wade, S. and Walker S. G. (2014) A Bayesian Nonparametric Study of Hippocampal Atrophy in Alzheimer's Disease. *J. Amer. Statist. Assoc.* 109(506) 477–490.
- Antoniano-Villalobos, I. and Walker S. G. (2012) Bayesian Nonparametric Inference for the Power Likelihood. *Journal of Computational and Graphical Statistics* 22(4) 801–813.
- Kohury, I., Toussaint, G., Ciampi, A., Antoniano, I., Murie, C., Nadon, R. (2008) Proximity-Graph-Based Tools for DNA Clustering. *Encyclopedia of Data Warehousing and Mining* (2nd Edition). Ed. John Wang. IGI Global, 1623–1631 pp.
- Ciampi, A., Rich, B., Dyachenko, A., Antoniano, I., Murie, C., Nadon, R. (2007) Locally Linear Regression and the Calibration Problem for Micro-Array Analysis. *Selected Contributions in Data Analysis and Clasification: Studies in Classification, Data Analysis, and Knowledge Organization*. Springer. 549–555 pp.