

Departamento de Matemáticas, Facultad de Ciencias Exactas and Naturales
Ciudad Universitaria, Pabellón 1, C 1428 EHA, Buenos Aires, Argentina

CURRICULUM VITAE

Actual Position

1993-Present CONICET: Investigador Independiente (*Independent Researcher*)
03/2003-Present DEPARTMENT OF MATHEMATICS: Profesor Titular (*Full Professor*). Area: Statistics

Fellowships

09/2001-08/2002: Fellowship from the John Simon Memorial Foundation.

Research Interests

My research has primarily focused in two areas of Mathematical Statistics, specifically, Robust Statistics and Non-parametric Inference. I have mainly developed procedures in regression and autoregression models and in multivariate statistics.

Publications

Total number of publications: 41

Publications since 2000

- 2000. G. Boente and R. Fraiman. Kernel-based functional principal components. *Statistics and Probability Letters*, Netherlands, Vol. 48, N° 4, 335-345.
- 2000. A. Bianco, G. Boente and Julio di Rienzo. Some results for robust GM-based estimators in heteroscedastic regression models. *Journal of Statistical Inference and Planning*, Netherlands, Vol.89, N° 2, 215-242.
- 2000. A. Bianco, G. Boente, M. Pollio and S. Resnik. Influence of oil content on sorption isotherms of four varieties of peanut at 25°C. *Journal of Food Engineering*, Vol. 47, 327-331.
- 2001. G. Boente and L. Orellana. A robust approach to common principal components. *Statistics in Genetics and in the Environmental Sciences*, Eds. Luisa Turrin Fernholz, Stephan Morgenthaler and Werner Stahel, pp. 117-147. Birkhauser Verlag, Trends in Mathematics, Basel.
- 2002. A. Bianco and G. Boente. On the asymptotic behavior of one-step estimates in heteroscedastic regression models. *Statistics and Probability Letters*, Netherlands, Vol. 60, 33-47.
- 2002. G. Boente, A.M. Pires and I. Rodrigues. Influence functions and outlier detection under the common principal components model. *Biometrika*, U.K., Vol. 89, N° 4, 861-875.
- 2002. G. Boente and R. Fraiman. Ergodicity, Geometric Ergodicity and Mixing Conditions for Nonparametric ARMA Processes. *Bulletin of the Brazilian Mathematical Society*, Brasil, Vol. 33, N° 3, 307-318.
- 2002. A. Bianco and G. Boente. A robust approach to partly linear autoregressive models. *Estadística*, Vol. 54, N° 162, 249-287.
- 2004. G. Boente and L. Orellana. Robust Plug-in Estimators in Proportional Scatter Models. *Journal of Statistical Planning and Inference*, Netherlands. Vol. 122, 95-110.
- 2004. A. Bianco and G. Boente. Robust estimators in semiparametric partly linear regression models. *Journal of Statistical Planning and Inference*, Netherlands, Vol. 122, 229-252.
- 2005. A. Bianco, G. Boente, M. Pollio and S. Resnik. Sorption isotherms of two varieties of Amaranthus at 25c: Comparison of water sorption characteristics and mathematical models. *Journal of Food Technology*, Vol. 3, 294-299.
- 2006. G. Boente, A.M. Pires y I. Rodrigues. General projection-pursuit estimators for the common principal components model: Influence functions and Monte Carlo study. *Journal of Multivariate Analysis* Vol. 97,124-147.
- 2006. A. Bianco, G. Boente and E. Martínez. Robust tests in semiparametric partly linear models. In press at *Scandinavian Journal of Statistics*.
- 2006. G. Boente, X. He y J. Zhou. Robust Estimates in Generalized Partially Linear Models. In press at *Annals of Statistics*.
- 2006. G. Boente and D. Rodriguez. Robust estimators of high order derivatives of regression functions. In press at *Statistics and Probability Letters*.

Students Advising Graduate Thesis

- Jointly advisor with Ana Bianco of the thesis for a licence degree in Computer Science of Elba Tonini, Title of the Thesis: “*Diversos Métodos de estimación en modelos aditivos*” (*Several estimation Methods in Additive Models*), November 1997..
- Advisor of the thesis for a licence degree in Mathematics of: Nancy Cifarelli (December 1999); Karina Repetto (March 2000); Daniela Rodriguez (September 2003), María Elena García (December 2005).

Master Thesis advisor

- Advisor of several Master Theses in Biometry (*Magister Scientiae en Biometría, Universidad de Buenos Aires*): Lic. Julio Di Rienzo (May 1995); Ing. Agrón. Susana Perelman (July 1996); Lic. Gilda Garibotti (August 1996); Lic. Liliana Orellana (July 1999).
- Advisor of Master Theses in Mathematical Statistics (*Magister Scientiae en Estadística Matemática, Universidad de Buenos Aires*): Susana Iturmendi, (May 2003); Andrés Farall (March 2005).

Phd. advisor

Advisor of Daniela Rodriguez and Andrés Farall who are doing their Phd. in Mathematics.

Miscellanea

- Stayed as visitor at the Universidad de la República, Montevideo, Uruguay; Instituto de Matemática de la Universidad Federal de Río de Janeiro, Brazil; Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisboa, Portugal; Universidad de Santiago de Compostela, Santiago de Compostela, España.
- Invited Speaker at several international meetings.
- Associated Editor of *Statistica Sinica*, August 2002-2005.
- Referee for several journals including: *Annals of Statistics*, *Biometrics*, *Journal of Nonparametrics*, *Test*, *Bernoulli*, *Revista de la Sociedad Argentina de Estadística*, *Journal of Statistical Planning and Inference*, *Estadística*, *Computational Statistics & Data Analysis*, *Metrika*.
- Elected member at Large to serve a four-year term beginning in January 2003 through December 2006, on the Commission on Development and Exchanges (CDE) of the International Mathematical Union (IMU).
- Member of the Latinamerican Committee of the Bernoulli Society.
- Member of the local Committee of the *International Conference on Contemporary Data Analysis: Theory and Methods*. Buenos Aires, Argentina, 5-9 March 2001.
- Member of the Program Committee of the *VIII CLAPEM*, La Habana, 12-16 November 2001.
- Member of the Program Committee of the *VIII CLAPEM*, Punta del Este, Uruguay, 22-26 March 2004.
- Member of the Scientific Committee of the International Conference on Robust Statistics (ICORS 2006) to be held at Lisboa in 2006.
- Member of the Program Committee of the parallel session of the *Bernoulli* at the 56th Meeting of the International Statistical Institute to be held at Lisboa in 2007.

Institutional Responsibilities

- ★ Vice-Chair (*Director Adjunto*) of the Department of Mathematics: May 1993 to March 1994.
- ★ Chair of the Instituto de Cálculo at the Facultad de Ciencias Exactas and Naturales from the Universidad de Buenos Aires: since December 1998. The Instituto de Cálculo is a research center whose main interest focus on Statistics and Applied Mathematics. The aim is to give support to Institutions and Companies seeking expertise in these areas.