

CURRICULUM VITAE
of
GRACIELA BOENTE BOENTE

Personal Data

<i>Born</i>	October 7, 1956 at Buenos Aires, Argentina
<i>Nacionality</i>	Argentina
<i>Civil State</i>	Single with one child
<i>Home Address</i>	Moldes 1855, 3° A, Buenos Aires, C1428CRA, Argentina
<i>Telephone</i>	(54-11) 4786-3621
<i>Academic Address</i>	Departamento de Matemáticas, Facultad de Ciencias Exactas and Naturales, Ciudad Universitaria, Pabellón 1, C1428 EHA, Buenos Aires, Argentina
	<i>Telephone/FAX</i> (54-11) 4576-3335/75
<i>Email</i>	gboente@mate.dm.uba.ar

Academic Degrees

- Licenciada en Matematica (Mathematics Diploma). (1975-1978). Studied at the Departament of Matemáticas, FCEyN¹, UBA². Obtained the degree in Mathematics with the highest grade.
- Doctor in Mathematics, Universidad de Buenos Aires, 1983.
Phd Advisor: Prof. Víctor Yohai, Full Professor, Department of Mathematics, FCEyN¹, UBA².
Thesis Title: Métodos robustos para componentes principales (*Robust Procedures for Principal Components*).

Academic Positions

Current Positions

- November 2008-present: Investigador Principal (*Principal Researcher*) of the CONICET³.
- 03/1996-Present: Profesor Titular (*Full Professor*). Area: Applied Mathematics: Department of Mathematics, FCEyN¹, UBA²

Past positions held at the CONICET³

- 1985-1987: Investigador Asistente (*Assistant Researcher*)

¹FCEyN is the School of Sciences (*Facultad de Ciencias Exactas and Naturales*)

²Universidad de Buenos Aires

³The CONICET is the National Research Council of Argentina that supports through supplementary salary and grants the work of Argentinian scientists. Admission to the CONICET is decided by a search committee of distinguished scientists. At admission, according to their age and performance, researchers are classified into five possible categories, Assistant Researcher being lowest one and Principal Researcher being the second to highest (for scientists who have shown capability to carry on independent research, were able to guide students in their graduate studies and developed a research team).

- 1987-1992: Investigador Adjunto (*Associate Researcher*)
- 1993-2008: Investigador Independiente (*Independent Researcher*)

Past positions held at the Department of Mathematics, FCEyN¹, UBA²

- 12/1986-10/1990: Profesor Adjunto (*Assistant Professor*)
- 10/1990-02/1996: Profesor Asociado (*Associate Professor*): Area: Statistics.

Honours and Distinctions

- 09/2001-08/2002: Fellowship from the John Simon Memorial Foundation
- 2008. Premio Consagración de la Sección de Matemática, Física y Astronomía de la Academia Nacional de Ciencias Exactas, Físicas y Naturales.
- 14/11/2009-29/11/2009 Invited Professor of the Department of Statistics from the University of British Columbia, Canada, sponsored by *The Constance van Eeden Fund*.

Research Interests

My research has primarily focused in two areas of Mathematical Statistics, specifically, Robust Statistics, Non-parametric and Semiparametric Inference. I have mainly developed procedures in nonparametric regression and autoregression models, partly linear and generalized partly linear models as well as in multivariate statistics and functional data analysis.

Publications

Publications in Mathematical Statistics

1. 1987. G. Boente. Asymptotic theory for robust principal components. *Journal of Multivariate Analysis*, Belgium, Vol. 21, N° 1, 67-78.
2. 1987. G. Boente, R. Fraiman and V. Yohai. Qualitative robustness for stochastic processes. *Annals of Statistics*, USA, Vol. 15, N° 3, 1293-1312.
3. 1988. G. Boente and R. Fraiman. Consistency of a nonparametric estimate of a density function for dependent variables. *Journal of Multivariate Analysis*, Belgium, Vol. 25, N° 1, 90-99.
4. 1988. G. Boente and R. Fraiman. On the asymptotic behavior of maximum likelihood estimates for the nonregular case. *Biometrika*, U.K., Vol. 75, N° 1, 45-56.
5. 1988. G. Boente and R. Fraiman. Robust nonparametric regression estimation. *Journal of Multivariate Analysis*, Belgium, Vol. 29, N° 2, 180-198.
6. 1989. G. Boente and R. Fraiman. Robust nonparametric regression estimation for dependent observations. *Annals of Statistics*, USA, Vol. 17, N° 3, 1242-1256.
7. 1990. G. Boente and R. Fraiman. Asymptotic distribution of robust estimates for nonparametric models from mixing observations. *Annals of Statistics*, USA, Vol. 18, N° 2, 891-906.

8. 1990. G. Boente and R. Fraiman. Chain rule density estimates. *Journal of Multivariate Analysis*, Belgium, Vol. 34, N° 1, 54-60.
9. 1990. G. Boente and R. Fraiman. Asymptotic distribution and strong order of convergence of nonparametric regression estimates. *Revista de la Unión Matemática Argentina*, Volume in honor to Rey Pastor, Vol. 35, 39-52.
10. 1991. G. Boente and R. Fraiman. Strong order of convergence and asymptotic distribution of nearest neighbor density estimates from dependent observations. *Sankhya*, India, Vol. 53, Serie A, 194-205.
11. 1991. G. Boente and R. Fraiman. Strong uniform convergence rates for some robust equivariant nonparametric regression estimates for mixing processes. *International Statistical Review*, U.K., Vol. 59, 355-372.
12. 1991. G. Boente and R. Fraiman. A functional approach to robust nonparametric regression. In: *Directions in robust statistics and diagnostics*, Werner Stahel and Sanford Weisberg (ed.). Proceedings of the IMA Institute, USA, Vol. 33, Part I, pp. 35-46.
13. 1994. G. Boente and R. Fraiman. Local L-estimators for nonparametric regression under dependence. *Journal of Nonparametric Statistics*, Vol. 4, N° 1, 91-102.
14. 1995. G. Boente and R. Fraiman. Asymptotic Distribution of Data-driven smoothers in density and regression estimation under dependence. *Canadian Journal of Statistics*, Vol.23, N° 4, 383-397.
15. 1995. G. Boente and R. Fraiman. Asymptotic distribution of smoothers based on local means and local medians under dependence. *Journal of Multivariate Analysis*, Belgium, Vol. 54, N° 1, 77-90.
16. 1997. G. Boente, R. Fraiman and J. Meloche. Robust Plug-in Bandwidth Estimators in Nonparametric Regression. *Journal of Statistical Planning and Inference*, Netherlands, Vol.57, N° 1, 109-142.
17. 1998. A. Bianco and G. Boente. Robust kernel estimators for additive models for dependent observations. *Canadian Journal of Statistics*, Canada, Vol. 26, N° 2, 239-255
18. 1999. G. Boente and R. Fraiman. Comment on Robust principal component analysis for functional data by N. Locantore, J. Marron, D. Simpson, N. Tripoli, J. Zhang and K. Cohen. *Test*, Spain, Vol. 8, N° 1, 28-35.
19. 2000. G. Boente and R. Fraiman. Kernel-based functional principal components. *Statistics and Probability Letters*, Netherlands, Vol. 48, N° 4, 335-345.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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. Society.

25. 2002. A. Bianco and G. Boente. A robust approach to partly linear autoregressive models. *Estadística*, Vol. 54, N° 162, 249-287.
26. 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.
27. 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.
28. 2006. G. Boente, A.M. Pires and 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.
29. 2006. G. Boente and D. Rodriguez. Robust estimators of high order derivatives of regression functions. *Statistics and Probability Letters*, Vol. 76, 1335-1344.
30. 2006. A. Bianco, G. Boente and E. Martínez. Robust tests in semiparametric partly linear models. *Scandinavian Journal of Statistics*, Vol. 33, 435-450.
31. 2006. G. Boente, X. He and J. Zhou. Robust Estimates in Generalized Partially Linear Models. *Annals of Statistics*, Vol. 34, No. 6, 2856-2878.
32. 2007. A. Bianco and G. Boente. Robust estimators under a semiparametric partly linear autoregression model: Asymptotic behavior and bandwidth selection. *Journal of Time Series Analysis*, Vol. 28, 274-306.
33. 2007. G. Boente, F. Critchley and L. Orellana. Influence functions for robust estimators under proportional scatter matrices. *Statistical Methods & Applications - JISS*, Vol. 15, 295-327.
34. 2007. A. Bianco, G. Boente, W. González-Manteiga and A. Pérez-González. Estimation with missing responses in a semiparametric partially linear model. *Bulletin of the International Statistical Institute 56th Session. Proceedings*. DVD version.
35. 2008. A. Bianco, G. Boente, A.M. Pires and I. Rodrigues. Robust discrimination under a hierarchy on the scatter matrices. *Journal of Multivariate Analysis*. Vol. 99, N°6, 1332-1357.
36. 2008. G. Boente, A.M. Pires and I. Rodrigues. Reweighted based estimators for the common principal components model: Influence functions and Monte Carlo study. *Metrika*, Vol. 67, 189-218.
37. 2008. G. Boente and D. Rodriguez. Robust bandwidth selection in semiparametric partly linear regression models: Monte Carlo study and influential analysis. *Computational Statistics and Data Analysis*, Vol 52, 2808-2828.
38. 2008. G. Boente and A. Farall. Robust Multivariate Tolerance Region: Influence Function and Monte Carlo Study. *Technometrics*, Vol 50, 487-500.
39. 2009. G. Boente, W. González Manteiga and A. Pérez González. Robust nonparametric estimation with missing data. *Journal of Statistical Planning and Inference*, **139**, 571-592.
40. 2009. G. Boente, A.M. Pires and I. Rodrigues. Robust tests for the common principal components model. *Journal of Statistical Planning and Inference*, **139**, 1332-1347.
41. 2009. L. Bali and G. Boente. Principal points and elliptical distributions from the multivariate setting to the functional case. *Statistics and Probability Letters*, **79**, 1858-1865.
42. 2010. A. Bianco, G. Boente, W. González Manteiga and A. Pérez González. Estimation of the marginal location under a partially linear model with missing responses. *Computational Statistics and Data Analysis*, **54**, 546-564.

43. 2010. G. Boente, D. Rodriguez and M. Sued. Inference under functional proportional and common principal components models. *Journal of Multivariate Analysis*, **101**, 464-475.
44. 2010. G. Boente, J. Molina and M. Sued. On the asymptotic behavior of general projection-pursuit estimators under the common principal components model. *Statistics and Probability Letters*, **80**, 228-235.
45. 2010. A. Bianco and G. Boente. On a partly linear autoregressive model with moving average errors. *Journal of Nonparametric Statistics*, **22**, 797-820.
46. 2010. G. Boente, A. Pires and I. Rodrigues. Detecting influential observations in principal components and common principal components. *Computational Statistics and Data Analysis*, **54**, 2967-2975.
47. 2010. G. Boente, M. Ruiz and R. Zamar. On a robust local estimator for the scale function in heteroscedastic nonparametric regression. *Statistics and Probability Letters*, **80**, 1185-1195.
48. 2010. G. Boente and D. Rodriguez. Robust inference in generalized partially linear models. *Computational Statistics and Data Analysis*, **54**, 2942-2966.
49. 2011. I. Rodrigues and G. Boente Multivariate outliers. En: *International Encyclopedia of Statistical Science* Miodrag Lovric (Ed.). pag: 910-912. Springer. ISBN: 978-3-642-04897-5
50. 2010. A. Bianco, G. Boente, W. González Manteiga and A. Pérez González. Asymptotic behavior of robust estimators in partially linear models with missing responses: The effect of estimating the missing probability on the simplified marginal estimators. In press in *TEST*.
51. 2011. G. Boente and D. Rodriguez. Robust Estimates in Generalized Partially Linear Single-Index Models. In press in *TEST*.
52. 2011. A. Bianco, G. Boente and S. Sombielle. Robust estimators for nonparametric generalized regression. In press in *Statistics and Probability Letters*.
53. 2011. L. Bali, G. Boente, D. Tyler and J.-L. Wang. Robust Functional Principal Components: a projection-pursuit approach. In press in *Annals of Statistics*.

Publications related to statistical consulting

54. 1993. A. Pacin, E. Martínez, G. Boente, F. Bordignon and J. Peri. Study of seasonal behavior of erythrocyte sedimentation rate. *Chronobiologia*, Vol. 20, 169-178, 1993.
55. 1994. A. Larumbe, H. González, M. Pollio, E. Martínez, S. Resnik, G. Boente, J. Adrover and G. Garibotti. Water Sorption Characteristics of Argentinien Wheat. Statistical Methodology. *Journal of Food Engineering*, Vol. 21, 291-304,1994.
56. 1994. H. González, M. Pollio, E. Martínez, G. Boente and S. Resnik. Sorption Isotherms of Argentinien Maize Hybrids. *Anales de la Asociación Química Argentina*, Vol. 82, 147-154, 1994.
57. 1994. A. Pacin, C. Reale, H. Mirengui, G. Boente and L. Orellana. Subclinic effect of the administration of T-2 Toxin and Nivalenol in mice. *Mycotoxin Research*, Vol.10, 85-96.
58. 1995. G. Boente, A. Larumbe, M. Pollio, J. Monserrat, S. Sanmartino and S. Resnik. Multivariate statistical analysis of water sorption data of Argentine sorghum. *Journal of Food Engineering*, Vol.25,73-84.
59. 1995. H. González, A. Pacin, E. Martínez, G. Boente and S. Resnik. Influence of Inoculum Preparation and Volume on Growth of Micotoxigenic Molds. *Journal of Food Protection*, Vol.58,430-433.

60. 1996. G. Boente, H. González, E. Martínez, M. Pollio and S. Resnik. Sorption Isotherms of Corn. Study of Mathematical Models. *Journal of Food Engineering*, Vol.29,115-128.
61. 1997. A. Bianco, G. Boente, M. Pollio, S. Resnik and A. Larumbe. Comparison of water sorption behaviour of three rice varieties: Temperature Influence. *Journal of Food Engineering*, Vol. 33, 395-403.
62. 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.
63. 2005. A. Bianco, G. Boente, M. Pollio and S. Resnik. Sorption isotherms of two varieties of *Amaranthus* at 25°C: Comparison of water sorption characteristics and mathematical models. *Journal of Food Technology*, Vol. 3, 294-299.

Submitted Papers

- 2011. Boente, G., Ruiz, M. and Zamar, R. Bandwidth choice for robust nonparametric scale function estimation. Revision required from the *Computational Statistics and Data Analysis*.
- 2011. A. Bianco, G. Boente and I. Rodrigues. Resistant estimators in Poisson and Gamma models with applications to outlier detection. Submitted to *Journal of Multivariate Analysis*. Available at Publicaciones Previas del Instituto de Cálculo.
<http://www.ic.fcen.uba.ar/preprints/biancoboenterodrigues.2011.pdf>
- 2011. A. Bianco, G. Boente y I. Rodrigues. Robust tests in generalized linear models with missing responses. Submitted to *Computational Statistics and Data Analysis*. Available at Publicaciones Previas del Instituto de Cálculo.
http://www.ic.fcen.uba.ar/preprints/test_GLM.TR.pdf
- 2011. G. Boente, W. González-Manteiga y D. Rodriguez. Goodness-of-fit test for directional data. Submitted to *Scandinavian Journal of Statistics*.
- 2011. G. Boente, D. Rodriguez y M. Sued. A test for the equality of covariance operators. Submitted to *Statistica Sinica*.
- 2011. G. Boente, R. Cao, W. González Manteiga y D. Rodriguez. Testing in generalized partly linear models: A robust approach. Submitted to *Statistics and Probability Letters*.

Invited Talks

- 1982. Swiss Federal Institute of Technology. Zurich, Switzerland. *Robust Methods in Principal Component Analysis*.
- 1990. Departamento de Estadística del INTA. *Cluster Methods*.
- 1994. Future Directions in Robustness and Data Analysis, Symposium organized at the Princeton University. 27 June-02 July. Princeton, U.S.A.. *Robust Plug-in Bandwidth Estimators*.
- 1995. VI Congreso Latinoamericano de Probabilidad and Estadística Matemática (VI CLAPEM). Viña del Mar, Chile. November. *Data-Driven Bandwidth Selectors in Nonparametric Regression: Sensitivity to anomalous Data*.
- 1996. Symposium on Statistics and the Sciences, held at the Dalhousie University. 12-16 August. Halifax, Canadá. *Robust estimators in heteroscedastic regression models with applications to the estimation of the reflectance of crops with NOAA-AVHRR data*.

- 1997. Instituto de Matemática, Universidade Federal do Rio de Janeiro. July. *Robust Kernel Estimators for additive Models under Dependent Observations*.
- 1998. Instituto Argentino de Matemática, CONICET. Buenos Aires. November. *Estimación Robusta en Modelos de Regresión Heteroscedásticos*.
- 1999. Workshop on Statistical Methodology for the Sciences: Environmetrics and Genetics. Ascona, Switzerland. 23-28 May. *A robust approach to common principal components*.
- 1999. Center for Statistics. Limburgs Universitair Centrum. Diepenbeek. Belgium. May 31. *High breakdown point estimators in heteroscedastic regression models*.
- 2000. Institut de Statistique et de Recherche Opérationnelle. Université Libre de Bruxelles, Brussels, Belgium. February 4. *Robust estimators for common principal components and proportional models*.
- 2000. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. February 28. *Robust estimators for common principal components and proportional models*.
- 2001. International Conference on Contemporary Data Analysis: Theory and Methods. Buenos Aires, Argentina, 5-9 March. *Robust estimators in semiparametric regression*.
- 2001. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. May 17. *Robust estimators for partly linear models*.
- 2002. Department of Statistics. University of California at Davis, Davis, USA. February 6. *Robust estimators for proportional models*.
- 2002. International Conference on Robust Statistics (ICORS 2002), Vancouver, Canada, 12-18 May. *Robust estimators in partly linear models*.
- 2002. Department of Mathematics. University of Indiana at Bloomington, Bloomington, USA. February 13. *Robust estimators in partly linear models*.
- 2002. International Conference On Current Advances And Trends In Nonparametric Statistics, Crete, Grece, 15-19 July. *Robust Procedures for Semiparametric Partly Linear Autoregression*.
- 2003. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. May 21. *Robust Procedures for Semiparametric Partly Linear Autoregression*.
- 2003. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. December 3. *Robust tests in semiparametric partly linear models*.
- 2003. International Conference on Robust Statistics (ICORS 2003) Antwerp, Belgium, 13-19/07. *Robustness in Semiparametric Partly Linear Models*.
- 2004. International Conference on Robust Statistics (ICORS 2004) Beijing, China, 12-17/07. *Reweighted estimators for the common principal components model: Influence functions and Monte Carlo study*.
- 2005. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. January 13. *Robust bandwidth selectors in semiparametric partly linear regression models*.
- 2005. Departamento de Estadística de la Universidad Carlos III, Madrid, Spain. January 26. *Reweighted estimators for the common principal components model: Influence functions and Monte Carlo study*.
- 2005. Departamento de Informática de la Universidad de La Coruña, La Coruña, Spain. February 10. *Robust bandwidth selectors in semiparametric partly linear regression models*.
- 2005. Departamento de Estadística e Investigación Operativa de la Universidad de Santiago de Compostela, Santiago de Compostela, Spain. February 16. *Reweighted estimators for the common principal components model: Influence functions and Monte Carlo study*.

- 2006. Departamento de Estadística e Investigación Operativa de la Universidad de Vigo, Vigo, Spain. February 2. *Regiones de tolerancia robustas multivariadas*.
- 2006. Departamento de Estadística e Investigación Operativa de la Universidad de Santiago de Compostela, Santiago de Compostela, Spain. February 6. *Estimadores robustos en modelos parcialmente lineales generalizados*.
- 2006. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. February 15. *Robust tolerance regions*.
- 2006. Workshop on Robustness and Statistical Inference, In Honour of Victor Yohai, Universidad Carlos III de Madrid, Spain, 4 and 5 October. *Robust estimators in Generalized Partially Linear Models*.
- 2008. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. February 22. *Robust estimators in Generalized Partially Linear Models*.
- 2008. Departamento de Estadística e Investigación Operativa de la Universidad de Santiago de Compostela, Santiago de Compostela, Spain. March 7. *Robust estimators in Generalized Partially Linear Models*.
- 2008. Instituto de Matemática Aplicada del Litoral. Santa Fé, Argentina. August 15. *Métodos Robustos en Modelos Parcialmente Lineales Generalizados*.
- 2008. Annual Meeting from the Unión Matemática Argentina. Mendoza, Argentina, 25-27 September. *Métodos robustos en modelos de regresión parcialmente lineales*.
- 2008. International Workshop on Flexible Modelling: Smoothing and Robustness, FMSR 2008, Leuven, Belgium, 12-14 November. *Robust procedures in generalized partially linear models*.
- 2009. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. 29 January. *Robust inference in Generalized Partially Linear Models*.
- 2009. X Congreso Dr. Antonio Monteiro. Bahía Blanca, Argentina, 27-29 May. *Componentes principales comunes: Una aproximación robusta al problema*.
- 2009. International Conference on Robust Statistics (ICORS 2009) Parma, Italy, 14-19 June. *Robust methods in semiparametric estimation with missing responses*.
- 2009. Departamento de Estadística e Investigación Operativa de la Universidad de Santiago de Compostela, Santiago de Compostela, Spain. 16 July. *Estimadores robustos en componentes principales funcionales*.
- 2009. 27th European Meetings of Statisticians (EMS 2009) Toulouse, France, 20-24 July. *A robust approach to test in semiparametric models*.
- 2009. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. 28 July. *Robust methods in semiparametric estimation with missing responses*.
- 2009. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. 21 October. *Robust estimators in functional principal components*.
- 2009. Department of Statistics from the University of British Columbia, Canada. 24 November. *van Eeden Lecture: Robust estimators in functional principal components*.
- 2010. Departamento de Estadística e Investigación Operativa de la Universidad de Santiago de Compostela, Santiago de Compostela, Spain. 18 February. *Robust methods in semiparametric estimation with missing responses*.
- 2010. Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal. 21 July. *Robust inference in generalized linear models with missing responses*.

- 2010. Interface Functional and Longitudinal Data Analysis Workshop. Research Triangle Park, North Carolina, 8-10 November. *Robust functional principal components: a projection pursuit approach*.
- 2010. Department of Statistics from the University of British Columbia, Canada. 23 November. *Robust Inference in Generalized Linear Models with Missing Responses*.
- 2011. Departamento de Estadística e Investigación Operativa de la Universidad de Santiago de Compostela, Santiago de Compostela, Spain. 24 February. *Robust Inference in Generalized Linear Models with Missing Responses*.

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, Title of the Thesis: *Test de bondad de ajuste para familias de distribuciones (Goodness of fit test for distribution families)*, December 1999.
- Advisor of the thesis for a licence degree in Mathematics of Karina Repetto, Title of the Thesis: *Algunos resultados referidos a la estimación robusta de parámetros en regresión lineal heteroscedástica (Some results related with robust estimation in heteroscedastic linear regression)*, March 2000.
- Advisor of the thesis for a licence degree in Mathematics of Daniela Rodriguez, Title of the Thesis: *Métodos robustos para seleccionar el parámetro de suavizado en modelos parcialmente lineales (Robust methods to select the smoothing parameter in partly linear models)*, September 2003.
- Advisor of the thesis for a licence degree in Mathematics of María Elena García, Title of the Thesis: *Una propuesta plug-in robusta para el problema de discriminación bajo un modelo de componentes principales comunes para las matrices de covarianza (A plug-in robust proposal for the discrimination problem under the CPC model)*, December 2005.
- Co-Advisor with Daniela Rodriguez of the thesis for a licence degree in Mathematics of Juan Lucas Bali, Title of the Thesis: *Algunos resultados sobre puntos principales y distribuciones elípticas en el caso funcional (Some results on principal points and elliptical distributions in the functional setting)*, March 2008.
- Co-Advisor with Mariela Sued of the thesis for a licence degree in Mathematics of Fernanda Julieta Molina, Title of the Thesis: *Sobre el comportamiento asintótico de los estimadores de projection-pursuit para un modelo de componentes principales comunes (On the asymptotic behavior of the projection-pursuit estimators for the CPC model)*, March 2008.
- Advisor of the thesis for a licence degree in Mathematics of Alejandra Martínez, Title of the Thesis: *Estimación en modelos aditivos con respuestas faltantes (Estimation under an additive model with missing responses)*, March 2009.

Phd. Thesis

Advisor of the following PhD. Theses in Mathematics

- Lic. Daniela Rodriguez *Estimación Robusta en Modelos Parcialmente Lineales Generalizados (Robust estimators in generalized partly linear models)*, FCEyN, Universidad de Buenos Aires. (March 28, 2008). (Outstanding with the honour of the jury).
- Lic. Sandro Marcelo Ruiz *Contribución a la Teoría de la Estimación Robusta de Escala en Modelos de Regresión No-paramétricos (Contributions to the theory of robust scale estimation in nonparametric regression models)*. Universidad Nacional de Rio Cuarto. September 16 2008.(Outstanding).

Master Thesis advisor

Advisor of the following Master Theses in Biometry (*Magister Scientiae en Biometría, Universidad de Buenos Aires*)

- Lic. Julio Di Rienzo *Estimación de las reflectancias específicas de los cultivos o usos de la tierra a partir de imágenes satelitales de baja resolución con propósitos de monitoreo (Estimation of specific reflectances of crops or uses of the land from low resolution satellital images)*. December 1993.
- Lic. Elva Nora Beretta *Análisis de variables directas y derivadas para analizar la tipificación de establecimientos agropecuarios (Analysis of direct and index variables to analyse the characteristics of agricultural and cattle establishments)*. May 1995.
- Ing. Agrón. Susana Perelman *Técnicas estadísticas de clasificación para la delimitación de comunidades vegetales de la Pampa deprimida (Statistical classification methods for delimitating grassland communities in the Flooding Pampa)*. July 1996.
- Lic. Gilda Garibotti *Métodos estadísticos para estimar los parámetros de una distribución pluviométrica (Statistical methods for estimating the parameters of rainfall distribution)*. August 1996.
- Lic. Liliana Orellana *Métodos robustos para el análisis de componentes principales comunes (Robust methods for the analysis of common principal components)* July 1999.

Advisor of the following Master Theses in Mathematical Statistics (*Magister Scientiae en Estadística Matemática, Universidad de Buenos Aires*)

- Susana Iturmendi *Métodos para la estimación de la densidad relativa (Methods for the estimation of the relative density)*. June 2003.
- Andrés Farall *Límites de tolerancia para datos multivariados (Robust tolerance regions for multivariate data)*. March 2005

Co-Advisor with Ana Bianco of the following Master Thesis in Mathematical Statistics (*Magister Scientiae en Estadística Matemática, Universidad de Buenos Aires*)

- Susana Sombielle *Estimadores robustos en modelos noparamétricos generalizados (Robust estimators in generalized nonparametric regression models)*. April 2009.

Current PhD. Students

Advisor of the following PhD. Theses in Mathematics

- Lucas Bali (Universidad de Buenos Aires).
- Alejandra Martinez (Universidad de Buenos Aires).
- Alejandra Valeria Vahnovan (Universidad Nacional de La Plata).

Institutional Responsibilities

National activities

- ★ Vice-Chair (*Director Adjunto*) of the Department of Mathematics between May 1993 and March 1994.
- ★ Chair of the Instituto de Cálculo at the Facultad de Ciencias Exactas and Naturales from the Universidad de Buenos Aires, December 1998–April 2008. 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.
- ★ Vice-Director of the Master in Mathematical Statistics, 1997–1999.
- ★ Member of the following Committees
 - (i) Mathematical Advising Committee of the CONICET: April 1994–December 1996, March 2006–December 2007.
 - (ii) Committee for Research Scholarships from CONICET: March 1998–December 2002.
 - (iii) Co-chair of the Mathematical Advising Committee of the CONICET(March 2010-December 2010)
 - (iv) Chair of the Mathematical Advising Committee of the CONICET(March 2011-Present)
 - (iv) Committee for evaluating researchers in the area of Mathematics from the Consejo Interuniversitario Nacional (*National Council of National Universities*): March, July and December 1999.
 - (v) Committee for the selection of researchers which will participate in the activities of the ICTP (Agreement ICTP–Facultad de Ciencias Exactas and Naturales) from 1990 to 1993 and since 1/02/1999.
- ★ Evaluation of several research projects for the CONICET, Universidad Nacional de La Plata, Universidad Nacional del Sur, Universidad Nacional del Litoral, Universidad Nacional de General Sarmiento.
- ★ Member of the Doctorate in Mathematics Committee thesis awarded by the Universidad de Buenos Aires, of Lic. Marta García Ben(1988), Lic. Ana Bianco(1990), Lic. Diana Kelmansky(1990), Lic. Jorge Adrover(1993), Lic. Daniel Gervini(1999), Lic. Elena Martínez(1999), Lic. Alberto Maltz, (1999) and Lic. Ana Julia Villar(2000).
- ★ Member of the Ph.D. Committee at the Instituto Superior Técnico de Lisboa of Isabel Rodrigues (2003).
- ★ Member of the *Comité de Agregação* of Professor Ana Pires Parente. 2008.
- ★ Member of several jury panels that selected faculty members for the positions of Assistant and Associate Professors.

Consulting

- ★ Statistical collaboration with the research group of Professor Silvia Resnik. Several results of this collaboration have appeared as publications in different Technological Journals.
- ★ Jointly with Liliana Orellana, statistical collaboration in a follow-up study for patients with liver cirrosis performed at the Hospital Nacional de Gastroenterología Dr. B. Udaondo between 1982 and 1993 by Drs. Ruben Terg and Claudio Rafaelli .
- ★ Jointly with Liliana Orellana, statistical collaboration researchers of the Computational Mechanics from the CINI (TECHINT) to study high collapse pipes and also, jointly with Andrés Farall and Daniela Rodriguez to study the point performance of pipes. The CINI (Centro de Investigación Industrial, *Center for Industrial Research*), whose chair is Dr. Eduardo Dvorkin, is the research and development center for engineering and industrial companies of the TECHINT group.

Academic Visits

- Invited Professor of the Department of Statistics of the INTA (National Institute of Agriculture): Between 1987 to 1994. I taught several courses at their Master Program in Statistics and I was the advisor of several Master thesis.
- Stayed as visitor at the following Universities:
 - Universidad de la República, Montevideo, Uruguay: 1987, 1988, 1989, 1990, 1991, 1992, 1994, 1997 to develop joint projects with Professor Ricardo Fraiman.
 - Instituto de Matemática de la Universidad Federal de Río de Janeiro, Brazil: 1997.
 - Instituto Superior Técnico de la Universidad Técnica de Lisboa, Lisbonne, Portugal: 2000, 2001, 2002, 2003, 2005, 2006, 2008, 2009, 2010, 2011 to develop joint projects with Professors Ana Pires Parente and Isabel Rodrigues.
 - Departamento de Estadística e Investigación Operativa, Universidad de Santiago de Compostela, Santiago de Compostela, Spain, 2005, 2006, 2007, 2008, 2009, 2010, 2011 to develop joint projects with Professors Wenceslao González–Manteiga and Ana Pérez–González.
 - Department of Statistics from the University of British Columbia, Canada: 2009 and 2010. Joint work with Matías Salibián–Barrera and Rubén Zamar.
- Invited researcher at SAMSI from October 27 to 17 de November 2010.

Miscellanea

- Associated Editor of *Statistica Sinica*, August 2002–November 2005.
- Referee for several journals including: *Annals of Statistics*, *Annals of the Institute of Statistical Mathematics*, *Biometrics*, *Biometrika*, *Communications in Statistics*, *Computers and Mathematics with Applications*, *Computational Statistics & Data Analysis*, *Estadística*, *Journal of the American Statistical Association*, *Journal of Computational and Graphical Statistics*, *Journal of Nonparametric Statistics*, *Journal of Statistical Planning and Inference*, *Journal of Multivariate Analysis*, *Journal of Computational and Applied Mathematics*, *Metrika*, *Revista de la Sociedad Argentina de Estadística*, *REVSTAT*, *Statistical Methods and Applications*, *Statistical Papers*, *Statistical Science*, *Statistical Methods and Applications*, *Statistics and Computing*, *Test*.
- Elected member at large to serve a four-year term from January 2003 through August 2010, on the Commission on Development and Exchanges (CDE) of the International Mathematical Union (IMU).
- Adviser for the Latin American and Caribbean Fellowship competition of the John Simon Guggenheim Memorial Foundation: 2005, 2006, 2007, 2008 and 2009.
- Referee of projects presented at
 - National Science Foundation. 2003.
 - FONDECYT, CONICYT, Chile. 2005.
 - Programa de I+D de la Comisión Sectorial de Investigación Científica de la Universidad de la República, Uruguay. August 2008.
- Member of the Latinamerican Committee of the Bernouilly Society, 2000–2002.
- Member of the Bernouilli Society, the Institute of Mathematical Statistics and the Sociedad Argentina de Estadística.
- Received grants from the Agencia Nacional de Promoción Científica y Tecnológica, Universidad de Buenos Aires and CONICET at Argentina.

Member of Organizing and Scientific Committees

- Member of the local Organizing Committee of the *International Conference on Contemporary Data Analysis: Theory and Methods*. Buenos Aires, Argentina, March 5-9 2001.
- Member of the Scientific Committee of the *Congreso Latinoamericano de Probabilidad y Estadística Matemática (VIII CLAPEM)*, La Habana, November 12-16 2001.
- Member of the Scientific Committee of the *Congreso Latinoamericano de Probabilidad y Estadística Matemática (IX CLAPEM)*, Punta del Este, Uruguay, March 22-26 2004.
- Member of the Scientific Committee of the *International Conference on Robust Statistics (ICORS 2006)*, Lisbonne, Portugal, July 16-21 2006.
- Member of the Scientific Committee of the *Workshop on Robustness and Statistical Inference, In Honour of Victor Yohai*, Madrid, Spain, 4 and 5 October 2006.
- Member of the Scientific Committee of the Invited Paper Meetings at the 56th *International Conference of the International Statistical Institute*, Lisbonne, Portugal, August 22-29 2007.
- Member of the Organizing Committee of the *International Conference on Robust Statistics (ICORS 2007)* held at Buenos Aires, 16-21 September 2007.
- Member of the Scientific Committee of the *International Conference on Robust Statistics (ICORS 2008)*, Antalya, Turkey, 8-12 September 2008.
- Member of the Scientific Committee of the *International Conference on Robust Statistics (ICORS 2009)*, Parma, Italy, 14-19 June 2009.
- Organizer of the parallel session on “Semi- and Nonparametric Statistics” of the *Bernoulli Society for the 57th Meeting of the International Statistical Institute*, Durban, South-Africa, 16-22 August 2009.
- Member of the Scientific Committee of the *IWFOS 2011*, Santander, Spain, 17-19 June 2011.
- Member of the Scientific Committee of the *International Conference on Robust Statistics (ICORS 2011)*, Valladolid, Spain, 26 June -1 July 2011. Joint organizer with Juan Cuesta-Albertos of the session on *Functional Data Analysis*.