Curriculum Vitae

≪ PERSONAL DATA

Name:	**Alba María**
Surname:	**Franco Pereira**
Gender:	**Female**
Date of birth:	**November 30, 1980**
Place of birth:	**Ourense, Spain**
Citizenship:	**Spanish**

≪ CONTACT DATA

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	Escuela Universitaria de Ingeniería Técnica Industrial
	Departamento de Estadística e Investigación Operativa
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≪ EDUCATION

Graduate

Ph.D. *Business Administration and Quantitative Methods* 2009

* Summa Cum Laude, "European Doctorate" mention
* Ph.D. Extraordinary Award
* Department of Statistics, Universidad Carlos III de Madrid (Spain)
* Thesis: *Stochastic Orderings and Aging Notions based on Percentile residual life functions*
* Advisors: Rosa E. Lillo and Juan Romo
* Committee: Javier Prieto, Félix Belunze, Franco Pellerey, Jacobo de Uña and María Durbán.

DEA (M.Sc. equivalent), *Statistics and Operational Research* 2006

* Department of Statistics, Universidad Carlos III de Madrid (Spain)
* 65 credits (equivalent to 120 ECTS credits) in coursework (2003-2005)

Undergraduate

B.Sc. *Mathematics* 2003

* *Minors:* Statistics and Operational Research
* Universidad de Santiago de Compostela (Spain)
* 320 credits in coursework (1998-2003)

≪ Research

Fields of Interest

* Stochastic Orderings, Reliability, Survival Analysis, Depth Functions, Nonparametric Estimation

Works in Progress

* *On the concept of Extreme Measures for functional data*, (with Rosa E. Lillo and Juan Romo)
* *Percentile Residual Life Function under right censorship estimation and shape constraints*, (with Jacobo de Uña)

Papers under evaluation (WP's Universidad Carlos III de Madrid)

* *Characterization of Bathtub Distributions via Percentile Residual Life Functions*, (with Rosa E. Lillo and Juan Romo)
* *The percentile residual life up to time t_0: ordering and aging properties*, (with Rosa E. Lillo and Juan Romo)
* *Comparing quantile residual life functions by confidence bands*, (with Rosa E. Lillo and Juan Romo)

Publications

* **The Decreasing Percentile Residual Life Aging Notion**, (with Rosa E. Lillo and Moshe Shaked) To appear in *Statistics*, 2010
* **Percentile Residual Life Orders**, (with Rosa E. Lillo, Juan Romo and Moshe Shaked). To appear in *Applied Stochastic Models in Business and Industry*, 2010
* **Stochastic Orderings and Aging Notions based on Percentile Residual Life Functions**. *InfoSEIO*, October 2010
* **Stochastic Orderings and Aging Notions based on Percentile Residual Life Functions**. Doctoral Dissertation, 2009

Collaborations

* *Book of abstracts of the "5th International Workshop on Applied Probability"*, (as a member of the Local Committee) 2010
* *Periodismo Digital en tiempos de crisis. Un caso de estudio: el tratamiento de la inmigración en los medios*, (with Rosa E. Lillo and María Pilar Diezhandino). *Ariel/Fundación Telefónica* 2009
* *Periodismo en la era de Internet. Claves para entender la situación actual de la información periodística en España*, (with Rosa E. Lillo and María Pilar Diezhandino). *Ariel/Fundación Telefónica* 2008

International Conferences Presentations

* **Confidence bands for comparing percentile residual life functions**, (with Rosa E. Lillo and Juan Romo). Contributed session, *Stochastic Modeling Techniques and Data Analysis (SMTDA)*, Chania-Crete (Greece) 2010
* **Inference for the difference of two percentile residual life functions**, (with Rosa E. Lillo and Juan Romo). Contributed session, *International Workshop on Applied Probability (IWAP)*, Madrid (Spain) 2010

* **Inference for the difference of two percentile residual life functions**, (with Rosa E. Lillo and Juan Romo). Contributed session, *International Conference on Computational Statistics (COMPSTAT)*, Paris (France) 2010

* **Confidence bands for the difference of two percentile residual life functions**, (with Rosa E. Lillo and Juan Romo). Contributed session, *Mathematical Methods in Reliability (MMR)*, Moscow (Russia) 2009

* **Percentile Residual Life Orders**, (with Rosa E. Lillo, Juan Romo and Moshe Shaked). Contributed session,*International Conference on Computational Statistics (COMPSTAT)*, Porto (Portugal) 2008

* **Percentile Residual Life Orders**, (with Rosa E. Lillo, Juan Romo and Moshe Shaked). Contributed session, *International Workshop on Applied Probability (IWAP)*, Compiègne (France) 2008

National Conferences Presentations

* **The decreasing percentile residual life aging notion**, (with Rosa E. Lillo and Moshe Shaked). Poster, *Congreso Nacional de Estadística e Investigación Operativa (SEIO)*, A Coruña 2010

* **Characterization of bathtub distributions via percentile residual life functions**, (with Rosa E. Lillo and Juan Romo). Contributed session, *Congreso Nacional de Estadística e Investigación Operativa (SEIO)*, A Coruña 2010

* **Bandas de confianza bootstrap para la diferencia de funciones cuantílicas de vida residual**, (with Rosa E. Lillo and Juan Romo). Invited session, *Conferencia Española de Biometría (CEB)*, Cádiz 2009

* **Bandas de confianza bootstrap para la diferencia de funciones cuantílicas de vida residual**, (with Rosa E. Lillo and Juan Romo). Contributed session, *Congreso Nacional de Estadística e Investigación Operativa (SEIO)*, Murcia 2009

* **Ordenaciones estocásticas basadas en la función cuantílica de vida residual**, (with Rosa E. Lillo, Juan Romo and Moshe Shaked). Contributed session, *Congreso Nacional de Estadística e Investigación Operativa (SEIO)*, Valladolid 2007

Seminars

* **Percentile Residual Life Function Estimation under right censorship and shape constraints**. Universidad de Vigo (España) 2010

* **Stochastic Orderings and Aging Notions based on Percentile Residual Life Functions**. Universidad Carlos III de Madrid (Spain) 2009

* **Percentile Residual Life Orders**. Universität Siegen (Germany) 2008

* **Sobre los conceptos de profundidad y ordenación estocástica en Estadística**. Universidad Carlos III de Madrid (Spain) 2007

* **Sobre los conceptos de profundidad y ordenación estocástica en Estadística**. Universidad Carlos III de Madrid (Spain) 2005

Research Projects

MadridRN: Researchers' night in Madrid 2010

* Duration: 26/11/2010-25/11/2012

* Universidad Carlos III de Madrid

* Elías Sanz Casado

MADAM: Towards a European Research Infrastructure for Modelling & Methodologies (PPI A)

* Duration: 26/04/2010-25/04/2011
* Universidad Carlos III de Madrid
* Antoni Espasa Terrades

MadridRN: Researchers' night in Madrid 2010

* Duration: 01/05/2010-30/11/2010
* Comisión Europea
* Elías Sanz Casado

MADAM: Towards a European Research Infrastructure for Modelling & Methodologies (PPI A)

* Duration: 26/04/2010-25/04/2011
* Universidad Carlos III de Madrid
* Antoni Espasa Terrades

Técnicas estadísticas para datos de gran complejidad en Empresa y Finanzas

* Duration: 01/01/2009-31/12/2011
* Ministerio de Ciencia e Innovación
* Juan Romo

International Workshop on Applied Probability (IWAP 2010)

* Duration: 01/01/2010-31/12/2010
* UC3M
* Rosa E. Lillo

CP07: Modelos estocásticos para el tratamiento estadístico de datos complejos y medidas de riesgo

* Duration: 01/01/2009-31/12/2009
* Comunidad de Madrid-UC3M
* Rosa E. Lillo

CP07: Técnicas estadísticas para la estimación y clasificación en modelos complejos

* Duration: 01/01/2008-31/12/2008
* Comunidad de Madrid-UC3M
* Rosa E. Lillo

Base de datos sobre violencia de género

* Duration: 07/12/2007-31/12/2007
* Ministerio de Trabajo y Asuntos Sociales
* Juan Romo

CP06: Ténicas no paramétricas y de computación intensiva en Estadística

* Duration: 01/01/2007-29/02/2008
* Comunidad de Madrid-UC3M
* Juan Romo

CP05: Ténicas no paramétricas y de computación intensiva en Estadística

* Duration: 01/01/2006-31/12/2006
* Comunidad de Madrid-UC3M
* Juan Romo

Métodos estadísticos avanzados para datos de muy alta dimensión en Empresa y Economía

* Duration: 31/12/2005-30/12/2008
* Ministerio de Educación y Ciencia, Dir. Gral. Investigación
* Juan Romo

Research Stays

Universidad de Vigo (Spain)	1 month, 2010

* Department of Statistics and Operational Research
* Collaboration with prof. Jacobo de Uña

Universität Siegen (Germany)	3 months, 2008

* Department of Mathematics
* Collaboration with prof. Alfred Müller

University of Arizona (U.S.A)	2 months, 2007

* Department of Mathematics
* Collaboration with prof. Moshe Shaked

University of Arizona (U.S.A)	2 months, 2006

* Department of Mathematics
* Collaboration with prof. Moshe Shaked

≪ EXPERIENCE

Teaching

Department of Statistics and Operations Research, Universidad de Vigo (Spain)	2010-present
Department of Statistics, Universidad Carlos III de Madrid (Spain)	2006-2007

Graduate courses

* Fundamentos de Estadística (Basics on Statistics), Máster en Dirección Internacional de Empresas (Master in International Business Administration). (With Rosa E. Lillo). Spanish 2006-2007. Universidad Carlos III de Madrid
* Herramientas Informáticas para el Análisis Estadísitico (Computational Techniques for Statistical Analysis), Máster en Dirección Internacional de Empresas (Master in International Business Administration). Spanish 2006-2007. Universidad Carlos III de Madrid
* Control Estadístico de la Calidad (Statistical Quality Control), Fábrica Nacional de Moneda y Timbre. (With A. Giuliodori and Rosa E. Lillo). Spanish 2006-2007. Universidad Carlos III de Madrid

Undergraduate courses

* Matemáticas II: Álgebra y Estadística. (Mathematics II: Algebra and Statistics), Grado en Ingeniería Industrial (Engineering). Spanish 2010-2011. Universidad de Vigo

Teaching Assistantships

Department of Statistics, Universidad Carlos III de Madrid (Spain) 2003-2010

Graduate courses

* **Statistics**, *Master in Business Administration and Quantitative Methods* and *Master in Mathematical Engineering*. 2006-2010
* **Multivariate Analysis**, *Master in Business Administration* and *Quantitative Methods and Master in Mathematical Engineering*. 2009-2010

Undergraduate courses

* **Statistics II**, *Bachelor degree in Business Administration* and *Dual Bachelor of Law-Business Administration*. 2009-2010
* **Inferencia Estadística** (Statistical inference I) *Bachelor degree in Statistics and Business*. Spanish 2005-2006, 2009-2010
* **Análisis Multivariante I** (Multivariate Analysis) *Bachelor degree in Statistics and Business*. Spanish 2005-2009
* **Introducción a la Estadística** (Introduction to Statistics), *Bachelor degree in Business Administration*, *Bachelor degree in Economics*, *Dual Bachelor of Law-Business Administration*, *Dual Bachelor of Law-Economics* and *Dual Bachelor of Economics-Journalism*. Spanish 2003-2008
* **Inferencia Estadística I** (Statistical inference) *Bachelor degree in Statistics and Business*. Spanish 2005-2006
* **Estadística I** (Statistics I), *Bachelor degree in Economics*. Spanish 2004-2005
* **Econometría II** (Econometrics II) *Bachelor degree in Business Administration* and *Dual Bachelor of Law-Business Administration*. Spanish 2004-2005
* **Métodos Estadísticos** (Statistical Methods) *Bachelor degree in Documentation* Spanish 2004-2005
* **Técnicas de investigación** (Research Techniques) *Bachelor degree in Statistics and Business*. Spanish 2003-2004

Coordination Assistantships

Department of Statistics, Universidad Carlos III de Madrid (Spain) 2005-2008, 2009-2010

* Introducción a la Estadística (Introduction to Statistics), 16 groups

Referee

* Revista Estadística Española
* Lifetime Data Analysis

International Conferences Organization

* **International Workshop on Applied Probability (IWAP)**, Colmenarejo (Spain) 2010

Editor

* Assistance in editing the book of abstracts of the "5th International Workshop on Applied Probability" (IWAP2010)

≪ GRANTS AND AWARDS

Research Grants

* *Ph.D. Extraordinary Award*, Universidad Carlos III de Madrid (Spain)	2010
* *Predoctoral Grant*, Research Program, DAAD (Germany)	2008
* *Predoctoral Grant*, Research Program, Universidad Carlos III de Madrid (Spain)	2007
* *Predoctoral Grant*, Research Program, Universidad Carlos III de Madrid (Spain)	2006

Teaching Grants

* *Teaching Assistant Fellowship*, Universidad Carlos III de Madrid (Spain)	2003-2005

Other awards

* *The highest result (grade 7) in the Trinity College Examination*, Marian English Language College (Ireland)	1996
* *Matrícula de Honor en C.O.U.*, Instituto de Bachillerato "Martaguisela" de O Barco de Valdeorras (Spain)	1997-1998

≪ SKILLS AND ABILITIES

Languages

* **English** - Fluent, **Galician** - Native, **Spanish** - Native

Computers

* **Progamming** - LaTeX, R, Matlab

* **Software** - SPSS, Statgraphics, Microsoft Office

* Computer courses attended - SPSS, LaTeX, Front Page, Asp, R

Music

* Second course of **Music-Theory** and **Guitar** in the Conservatorio de O Barco de Valdeorras (Spain) 1993-1995

≪ References

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≫ Juan Romo

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≫ Isabel Molina (Teaching Ref.)

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