



## **Manuel Febrero Bande**

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**Manuel Febrero Bande**

Surname(s): **Febrero Bande**  
 Name: **Manuel**  
 DNI: **34961128R**  
 ORCID: **0000-0002-9536-2973**  
 ResearcherID: **C-8078-2012**  
 Date of birth: **27/03/1967**  
 Gender: **Male**  
 Nationality: **Spain**  
 Country of birth: **Spain**  
 Aut. region/reg. of birth: **Galicia**  
 Contact province: **A Coruña**  
 City of birth: **Ourense**  
 Contact address: **Dpto. de Estadística, Análisis Matemático y Optimización. Facultad de Matemáticas**  
 Rest of contact address: **Campus Vida, s/n**  
 Postcode: **15781**  
 Contact country: **Spain**  
 Contact aut. region/reg.: **Galicia**  
 Contact city: **Santiago de Compostela**  
 Land line phone: **(+34) 881813187**  
 Fax: **(+34) 881813197**  
 Email: **manuel.febrero@usc.es**  
 Personal web page: **http://eio.usc.es/pub/febrero**

**Current professional situation**

**Employing entity:** Universidad de Santiago de Compostela  
**Department:** Estadística e Investigación Operativa, Facultad de Matemáticas  
**Professional category:** Catedrático de Universidad  
**Start date:** 03/03/2008  
**Type of contract:** Civil servant **Dedication regime:** Full time  
**Primary (UNESCO code):** 120900 - Statistics

**Previous positions and activities**

|          | <b>Employing entity</b>               | <b>Professional category</b>              | <b>Start date</b> |
|----------|---------------------------------------|---|-------------------|
| <b>1</b> | Universidad de Santiago de Compostela | Titular de Universidad                    | 02/07/1998        |
| <b>2</b> | Universidad de Santiago de Compostela | Titular de Escuela Universitaria          | 23/12/1996        |
| <b>3</b> | Universidad de Santiago de Compostela | Titular Interino de Escuela Universitaria | 01/10/1994        |
| <b>4</b> | Universidad de A Coruña               | Titular Interino de Escuela Universitaria | 25/10/1993        |
| <b>5</b> | Universidad de A Coruña               | Asociado                                  | 08/06/1993        |



- 1** **Employing entity:** Universidad de Santiago de Compostela **Type of entity:** University  
**Professional category:** Titular de Universidad  
**Start-End date:** 02/07/1998 - 02/03/2008
- 2** **Employing entity:** Universidad de Santiago de Compostela **Type of entity:** University  
**Professional category:** Titular de Escuela Universitaria  
**Start-End date:** 23/12/1996 - 01/07/1998
- 3** **Employing entity:** Universidad de Santiago de Compostela **Type of entity:** University  
**Professional category:** Titular Interino de Escuela Universitaria  
**Start-End date:** 01/10/1994 - 22/12/1996
- 4** **Employing entity:** Universidad de A Coruña **Type of entity:** University  
**Professional category:** Titular Interino de Escuela Universitaria  
**Start-End date:** 25/10/1993 - 30/09/1994
- 5** **Employing entity:** Universidad de A Coruña **Type of entity:** University  
**Professional category:** Asociado  
**Start-End date:** 08/06/1993 - 25/10/1993



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

**University degree:** Higher degree

**Name of qualification:** Licenciado en Matemáticas Especialidad Estadística e Investigación Operativa

**Degree awarding entity:** Universidad de Santiago de Compostela  
**Type of entity:** University

**Date of qualification:** 06/1990

#### Doctorates

**Doctorate programme:** Doctorado en Estadística e Investigación Operativa

**Degree awarding entity:** Universidad de Santiago de Compostela  
**Type of entity:** University

**City degree awarding entity:** Santiago de Compostela, Galicia, Spain

**Date of degree:** 15/09/1995

**DEA awarding entity:** Universidad de Santiago de Compostela

**Thesis title:** Modelización para la predicción en series de tiempo: Aspectos computacionales con nuevas aportaciones y aplicaciones

**Thesis director:** Wenceslao González Manteiga

**Obtained qualification:** Apto cum Laude

**Special doctorate award:** Yes

**Date of award:** 15/02/1996

## Teaching experience

### Teaching experience in courses and seminars for university teacher training

- 1 **Type of event:** Seminar  
**Name of the event:** An Introduction to the R Programming Language with Applications in Finance and Econometrics. Time Series  
**City organizing entity:** Rio de Janeiro, Brazil  
**Organising entity:** Instituto Nacional de Matemática Pura e Aplicada (IMPA)  
**Hours of teaching:** 15  
**Teaching date:** 06/2013
- 2 **Type of event:** Conference  
**Name of the event:** New trends in Mathematical Statistic: Functional Generalized Regression Models with scalar Response  
**City organizing entity:** Punta del Este, Uruguay  
**Organising entity:** CIMPA-UNESCO-MESR-MICINN  
**Teaching date:** 12/2012



- 3** **Type of event:** Curso  
**Name of the event:** Entorno Estadístico R  
**Organising entity:** Red Española de Matemática-Industria (i-MATH) **Type of entity:** Innovation and Technology Centres  
**Hours of teaching:** 30  
**Teaching date:** 07/2011
- 4** **Type of event:** Workshop  
**Name of the event:** Metodología y aplicaciones de la Estadística al control medioambiental  
**Organising entity:** Instituto de Matemáticas. Universidad de Sevilla **Type of entity:** University Centres and Structures and Associated Bodies  
**Hours of teaching:** 1  
**Teaching date:** 02/2011
- 5** **Type of event:** Curso  
**Name of the event:** Entorno Estadístico R  
**Organising entity:** Red Española de Matemática-Industria (i-MATH) **Type of entity:** Innovation and Technology Centres  
**Hours of teaching:** 30  
**Teaching date:** 07/2010
- 6** **Type of event:** Programa de Formación e Innovación Docente  
**Name of the event:** Análise estadística con R  
**Organising entity:** Universidad de Santiago de Compostela **Type of entity:** University  
**Hours of teaching:** 20  
**Teaching date:** 06/2010
- 7** **Type of event:** Programa de Formación e Innovación Docente  
**Name of the event:** Análise estadística con R (Lugo)  
**Organising entity:** Universidad de Santiago de Compostela **Type of entity:** University  
**Hours of teaching:** 20  
**Teaching date:** 05/2010
- 8** **Type of event:** Curso  
**Name of the event:** Entorno Estadístico R  
**Organising entity:** Red Española de Matemática-Industria (i-MATH) **Type of entity:** Innovation and Technology Centres  
**Hours of teaching:** 30  
**Teaching date:** 09/2009
- 9** **Type of event:** Curso  
**Name of the event:** Entorno Estadístico R  
**Organising entity:** Red Española de Matemática-Industria (i-MATH) **Type of entity:** Innovation and Technology Centres  
**Hours of teaching:** 30  
**Teaching date:** 07/2009



- 10** **Type of event:** Curso de Doctorado  
**Name of the event:** Análisis de Datos Funcionales  
**Organising entity:** Universidad Carlos III de Madrid **Type of entity:** University  
**Hours of teaching:** 20  
**Teaching date:** 06/2009
- 11** **Type of event:** Programa de Formación e Innovación Docente  
**Name of the event:** Análisis estadístico con R  
**Organising entity:** Universidad de Santiago de Compostela **Type of entity:** University  
**Hours of teaching:** 20  
**Teaching date:** 05/2009
- 12** **Type of event:** Programa de Doctorado  
**Name of the event:** Estadística con Datos Funcionales  
**Organising entity:** Universitat Politècnica de Catalunya **Type of entity:** University  
**Hours of teaching:** 10  
**Teaching date:** 07/2008
- 13** **Type of event:** Programa de Formación e Innovación Docente  
**Name of the event:** Introducción al software libre. Uso del sistema estadístico R  
**Organising entity:** Universidad de Santiago de Compostela **Type of entity:** University  
**Hours of teaching:** 20  
**Teaching date:** 06/2008

## Scientific and technological experience

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Consolidación e estructuración de unidades de investigación (grupos competitivos) ED431C 2017/38  
**Entity where project took place:** Consellería de Cultura, Educación e Ordenación Universitaria **Type of entity:** State agency  
**Name principal investigator (PI, Co-PI...):** Wenceslao González Manteiga  
**Nº of researchers:** 22  
**Funding entity or bodies:** Universidade de Santiago de Compostela **Type of entity:** University  
**Start-End date:** 01/01/2017 - 31/12/2020
- 2** **Name of the project:** Modelización no paramétrica de Dinámicas y Dependencias en Sistemas Complejos (MTM2016-76969-P)  
**Entity where project took place:** Ministerio de Economía y Competitividad  
**Name principal investigator (PI, Co-PI...):** Wenceslao González Manteiga; Rosa María Crujeiras Casais  
**Nº of researchers:** 22



**Start-End date:** 30/12/2016 - 29/12/2020

**3 Name of the project:** PREDICTIVE COGNITIVE MAINTENANCE DECISION SUPPORT SYSTEM (PRECOM)

**Entity where project took place:** HORIZON 2020

**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga; Jacobo de Uña Álvarez; Manuel Febrero Bande; Beatriz Pateiro López; Juan Carlos Pardo Fernández

**Nº of researchers:** 5

**Funding entity or bodies:**

ITMATI

**Type of entity:** Innovation and Technology Centres

**Start-End date:** 01/11/2017 - 31/10/2020

**4 Name of the project:** EVID. Prácticas innovadoras para combatir las enfermedades de la vid. (FEADER 2017/3B)

**Entity where project took place:** Consellería de Medio Rural

**City of entity:** Galicia, Spain

**Name principal investigator (PI, Co-PI....):** Manuel Febrero Bande

**Nº of researchers:** 2

**Funding entity or bodies:**

FEUGA

**Type of entity:** Foundation

**City funding entity:** Galicia, Spain

Bodegas GODEVAL

**Type of entity:** Business

**City funding entity:** Galicia, Spain

**Start-End date:** 19/08/2017 - 31/10/2019

**5 Name of the project:** Rede Tecnolóxica de Matemática Industrial (REDE TMATI)

**Entity where project took place:** Consellería de Cultura, Educación e Ordenación Universitaria

**City of entity:** Santiago de Compostela, Galicia, Spain

**Name principal investigator (PI, Co-PI....):** Alfredo Bermúdez de Castro

**Nº of researchers:** 20

**Start-End date:** 01/01/2017 - 31/12/2018

**6 Name of the project:** Tecnoloxías e análise dos datos lingüísticos (ED341D R2016/011)

**Entity where project took place:** Consellería de Cultura, Educación e Ordenación Universitaria

**Type of entity:** State agency

**City of entity:** Santiago de Compostela, Galicia, Spain

**Name principal investigator (PI, Co-PI....):** Xulio Sousa Fernández

**Nº of researchers:** 20

**Start-End date:** 01/01/2017 - 31/12/2018

**7 Name of the project:** Developing crucial Statistical methods for Understanding major complex Dynamic Systems in natural, biomedical and social sciences

**Entity where project took place:** Interuniversity Attraction Pole (IAP). Phase VII. Belgian Science Policy

**Name principal investigator (PI, Co-PI....):** González-Manteiga, W.

**Nº of researchers:** 16

**Funding entity or bodies:**

IAP Phase VII. Belgian Science Policy

**City funding entity:** Belgium

**Start-End date:** 01/04/2012 - 31/03/2017

**Duration:** 5 years



**Participating entity/entities:** KUL-1; KUL-2; LSHTM; UCL; UG; UH; UJF--LMC--IMAG; Universidad de Santiago de Compostela; UU

**Total amount:** 25.000 €

- 8** **Name of the project:** Inferencia no paramétrica: modelización, estimación, contrastes y aplicaciones  
**Entity where project took place:** Universidad de Santiago de Compostela **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga; Rosa Crujeiras Casais  
**Nº of researchers:** 17  
**Funding entity or bodies:** Ministerio de Economía y Competitividad **Type of entity:** State agency  
**Start-End date:** 01/01/2014 - 31/12/2016
- 9** **Name of the project:** Consolidación e estruturación de unidades de investigación (grupos competitivos)  
**Entity where project took place:** Universidad de Santiago de Compostela **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga  
**Nº of researchers:** 27  
**Funding entity or bodies:** Consellería de Educación e Ordenación Universitaria  
**City funding entity:** Galicia, Spain  
**Start-End date:** 25/10/2013 - 31/12/2016
- 10** **Name of the project:** ESTUDIO DE INVESTIGACIÓN SOBRE LA EFECTIVIDAD DE TERAPIAS COGNITIVAS BASADAS EN ACTIVIDADES COTIDIANAS, A TRAVÉS DE LA MONITORIZACIÓN NO INVASIVA DE LOS USUARIOS: RICH STIMULATION DAILY LIVING (RISING)  
**Entity where project took place:** ITMATI **Type of entity:** R&D Centre  
**City of entity:** Santiago de Compostela, Galicia, Spain  
**Name principal investigator (PI, Co-PI....):** Manuel Febrero Bande; Beatriz Pateiro López  
**Nº of researchers:** 2  
**Funding entity or bodies:** Axencia Galega de Innovación - CONECTA PEME  
**Start-End date:** 01/12/2016 - 30/11/2016
- 11** **Name of the project:** Tecnoloxías e análise dos datos lingüísticos  
**Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Dubert-García, F.  
**Nº of researchers:** 37  
**Funding entity or bodies:** Consellería de Cultura Educación e Ordenación Universitaria **Type of entity:** Consellería  
**City funding entity:** Santiago de Compostela, Galicia, Spain  
**Start-End date:** 01/10/2012 - 31/12/2013 **Duration:** 1 year - 2 months - 30 days  
**Participating entity/entities:** Universidad de Santiago de Compostela; UVigo  
**Total amount:** 120.000 €





- 12** **Name of the project:** 10MDS207015PR. Modelos de Inferencia non paramétrica para indicadores medioambientais  
**Entity where project took place:** Universidad de Santiago de Compostela      **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga  
**Nº of researchers:** 8  
**Funding entity or bodies:** XUNTA DE GALICIA  
**City funding entity:** Spain  
**Start-End date:** 07/2010 - 12/2013  
**Total amount:** 38.318 €
- 13** **Name of the project:** MTM2008-03010. Metodologías y aplicaciones en estadística semiparamétrica, funcional y espacio-temporal  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga  
**Nº of researchers:** 23  
**Funding entity or bodies:** Ministerio de Ciencia e Innovación. Investigación      **Type of entity:** Plan Nacional  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Start-End date:** 01/2009 - 12/2013  
**Total amount:** 335.049 €
- 14** **Name of the project:** Rede Tecnolóxica de Matemática Industrial (Rede TMATI)  
**Name principal investigator (PI, Co-PI....):** Quintela, P.  
**Nº of researchers:** 38  
**Funding entity or bodies:** Consellería de Cultura, Educación e Ordenación Universitaria      **Type of entity:** Consellería  
**City funding entity:** Galicia, Spain  
**Start date:** 01/10/2012      **Duration:** 1 year - 2 months - 30 days  
**Participating entity/entities:** UDC; Universidad de Santiago de Compostela; Universidade de Vigo  
**Total amount:** 120.000 €
- 15** **Name of the project:** Consolidación e estruturación de unidades de investigación (grupos competitivos)  
**Name principal investigator (PI, Co-PI....):** González-Manteiga, W.  
**Nº of researchers:** 31  
**Funding entity or bodies:** Consellería de Educación e Ordenación Universitaria  
**Start date:** 15/09/2010      **Duration:** 2 years - 3 months - 16 days  
**Participating entity/entities:** Universidad de Santiago de Compostela  
**Total amount:** 168.000 €
- 16** **Name of the project:** MODELOS DE INFERENCIA NON PARAMÉTRICA PARA INDICADORES MEDIOAMBIENTALS  
**Name principal investigator (PI, Co-PI....):** González-Manteiga, W.  
**Nº of researchers:** 9  
**Funding entity or bodies:**



XUNTA DE GALICIA

**City funding entity:** Spain**Start date:** 07/07/2010**Duration:** 3 years - 5 months - 15 days**Participating entity/entities:** Universidade de Santiago de Compostela**Total amount:** 38.318 €

**17 Name of the project:** Metodologías y aplicaciones en estadística semiparamétrica, funcional y espacio-temporal

**Name principal investigator (PI, Co-PI....):** González-Manteiga; W.**Nº of researchers:** 23**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Start date:** 01/01/2009**Duration:** 4 years - 11 months - 30 days**Participating entity/entities:** Universidade de Santiago de Compostela**Total amount:** 335.049 €

**18 Name of the project:** Generación de conocimientos sobre la interacción multisensorial del ser humano con los entornos para el desarrollo de nuevos productos y servicios en el sector cerámico - 4 SENSE (PSE-020000-2008-1)

**Name principal investigator (PI, Co-PI....):** Febrero-Bande; M.**Nº of researchers:** 3**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Start date:** 01/07/2008**Duration:** 1 year - 5 months - 30 days**Participating entity/entities:** Asoc. Esp. de Fabricantes de Azulejos; Pavimentos y Baldosas Cerámicos; Univ. de Santiago de Compostela + 28 socios**Total amount:** 168.628,74 €

### R&D non-competitive contracts, agreements or projects with public or private entities

**1 Name of the project:** SIPEI 2017-2018

**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga**Nº of researchers:** 3**Participating entity/entities:** FUNDACION EMPRESA-UNIVERSIDAD GALLEGA; Universidad de Santiago de Compostela**Funding entity or bodies:**

ENDESA GENERACION, S.A.

**City funding entity:** Spain**Start date:** 30/06/2017**Duration:** 1 year

**2 Name of the project:** SISTEMA DE PREDICIÓN ESTADÍSTICA DE INMISIÓN (SIPEI) 2016-2017

**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga**Nº of researchers:** 3**Participating entity/entities:** FUNDACION EMPRESA-UNIVERSIDAD GALLEGA; Universidad de Santiago de Compostela**Funding entity or bodies:**

ENDESA GENERACION, S.A.



**City funding entity:** Spain

**Start date:** 30/06/2016

**Duration:** 1 year

**3 Name of the project:** SIPEI 2015-2016

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga

**Nº of researchers:** 3

**Participating entity/entities:** FUNDACION EMPRESA-UNIVERSIDAD GALLEGA; Universidad de Santiago de Compostela

**Funding entity or bodies:**

ENDESA GENERACION, S.A.

**City funding entity:** Spain

**Start date:** 09/06/2015

**Duration:** 1 year - 21 days

**4 Name of the project:** SIPEI 2014-2015

**Degree of contribution:** Empresa

**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga; Manuel Febrero Bande

**Nº of researchers:** 2

**Participating entity/entities:** Universidade de Santiago de Compostela

**Funding entity or bodies:**

ENDESA, S.A.

**Type of entity:** Business

**Start date:** 01/09/2014

**Duration:** 8 months

**Total amount:** 25.000 €

**5 Name of the project:** MISIONES CRITICAS DE EMERGENCIAS CON MEDIOS AÉREOS TRIPULADOS Y NO TRIPULADOS EN VUELO COOPERATIVO (ENJAMBRE)

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga; Balbina Casas Méndez; Manuel Febrero Bande; María José Ginzo Villamayor; Beatriz Pateiro López

**Nº of researchers:** 5

**Start date:** 01/07/2014

**Duration:** 4 years

**6 Name of the project:** SIPEI 2014

**Degree of contribution:** Empresa

**Name principal investigator (PI, Co-PI....):** Wenceslao González Manteiga; Manuel Febrero Bande

**Nº of researchers:** 2

**Participating entity/entities:** Universidade de Santiago de Compostela

**Funding entity or bodies:**

ENDESA, S.A.

**Type of entity:** Business

**Start date:** 01/11/2013

**Duration:** 9 months

**Total amount:** 25.000 €

**7 Name of the project:** SIPEI 2013

**Degree of contribution:** Empresa

**Name principal investigator (PI, Co-PI....):** González-Manteiga; W.

**Nº of researchers:** 2

**Participating entity/entities:** Universidade de Santiago de Compostela

**Funding entity or bodies:**

ENDESA, S.A.

**Type of entity:** Business



**Start date:** 01/11/2012  
**Total amount:** 29.000 €

**Duration:** 1 year

**8 Name of the project:** Informe Applus  
**Degree of contribution:** Empresa  
**Name principal investigator (PI, Co-PI....):** Manuel Febrero Bande  
**Nº of researchers:** 3  
**Participating entity/entities:** Universidad de Santiago de Compostela  
**Funding entity or bodies:**  
Applus Norcontrol  
S.L.U.

**Start date:** 16/01/2012  
**Total amount:** 3.540 €

**Duration:** 1 month

**9 Name of the project:** SIPEI 2012  
**Name principal investigator (PI, Co-PI....):** González-Manteiga; W.  
**Nº of researchers:** 3  
**Participating entity/entities:** Universidad de Santiago de Compostela  
**Funding entity or bodies:**  
ENDESA, S.A.

**Type of entity:** Business

**Start date:** 01/11/2011  
**Total amount:** 29.000 €

**Duration:** 1 year

**10 Name of the project:** SIPEI 2011  
**Degree of contribution:** Empresa  
**Name principal investigator (PI, Co-PI....):** González-Manteiga; W.  
**Nº of researchers:** 3  
**Participating entity/entities:** Universidad de Santiago de Compostela  
**Funding entity or bodies:**  
ENDESA, S.A.

**Type of entity:** Business

**Start date:** 01/11/2010  
**Total amount:** 39.500 €

**Duration:** 1 year

**11 Name of the project:** Análise estatística para a monitorización e control de procesos de producción de taboleiros  
**Degree of contribution:** Empresa  
**Name principal investigator (PI, Co-PI....):** Febrero-Bande; M.  
**Nº of researchers:** 2  
**Participating entity/entities:** Universidad de Santiago de Compostela  
**Funding entity or bodies:**  
Financiera Maderera  
S.A. (FINSÁ)

**Start date:** 01/02/2010  
**Total amount:** 6.250 €

**Duration:** 6 months

**12 Name of the project:** SIPEI 2010  
**Degree of contribution:** Empresa  
**Name principal investigator (PI, Co-PI....):** González-Manteiga; W.



**Nº of researchers:** 3

**Participating entity/entities:** Universidad de Santiago de Compostela

**Funding entity or bodies:**

ENDESA Generación

**Start date:** 01/11/2009

**Duration:** 1 year

**Total amount:** 42.000 €

**13 Name of the project:** SIPEI 2009

**Degree of contribution:** Empresa

**Name principal investigator (PI, Co-PI....):** González-Manteiga; W.

**Nº of researchers:** 3

**Participating entity/entities:** Universidad de Santiago de Compostela

**Funding entity or bodies:**

ENDESA Generación

**Start date:** 01/11/2008

**Duration:** 1 year

**Total amount:** 42.000 €

**14 Name of the project:** Índice de calidade da produción científica do CESGA

**Degree of contribution:** Empresa

**Name principal investigator (PI, Co-PI....):** Febrero-Bande; M.

**Nº of researchers:** 1

**Participating entity/entities:** Universidad de Santiago de Compostela

**Funding entity or bodies:**

Fundación Centro de Supercomputación de Galicia

**Start date:** 12/05/2008

**Duration:** 7 months - 19 days

**Total amount:** 5.500 €

**15 Name of the project:** Deseño metodolóxico e análise de resultados de enquisas que permitan cuantificar o volume do turismo e excursionismo en Galicia en 2008

**Degree of contribution:** Empresa

**Name principal investigator (PI, Co-PI....):** Prada-Sánchez; J. M.

**Nº of researchers:** 14

**Participating entity/entities:** Universidade de Santiago de Compostela

**Funding entity or bodies:**

S.A.

TurGalicia

**Start date:** 01/05/2008

**Duration:** 11 months - 29 days

**Total amount:** 57.490,57 €



## Results

### Industrial and intellectual property

**Title registered industrial property:** fda.usc: Functional Data Analysis and Utilities for Statistical Computing

**Type of industrial property:** Software Libre

**Inventors/authors/obtainers:** Manuel Febrero Bande; Manuel Oviedo de la Fuente

**Entity holder of rights:** www.r-project.org

**Nº of application:** GPL-2

**Date of register:** 10/01/2011

**Conferral date:** 16/12/2013

**Identify key words:** Applications

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Rafael Carballeira; Duarte N. Vieira; Manuel Febrero Bande; José Ignacio Muñoz Barús. A valid method to determine the site of drowning. *International Journal Legal Medicine*. 132 - 2, pp. 487 - 497. Springer, 2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 2** Juan A. Cuesta Albertos; Eduardo García Portugués; Manuel Febrero Bande; Wenceslao González Manteiga. Goodness-of-fit tests for the functional linear model based on randomly projected empirical processes. *Annals of Statistics*. IMS, 2018. ISSN 0090-5364  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 3** Manuel Febrero Bande; Pedro Galeano San Miguel; Wenceslao González Manteiga. Functional Principal Component Regression and Functional Partial Least-Squares Regression: An Overview and a Comparative Study. *International Statistical Review*. pp. 1 - 23. Wiley, 2017. Available on-line at: <<http://dx.doi.org/10.1111/insr.12116>>.  
**Type of production:** Scientific paper **Format:** Journal
- 4** Juan Antonio Cuesta Albertos; Manuel Febrero Bande; Manuel Oviedo de la Fuente. The DD<sup>^</sup>G-classifier in the functional setting. *TEST*. 26, pp. 119 - 142. Springer, 2017.  
**Type of production:** Scientific paper **Format:** Journal
- 5** Manuel Febrero Bande. Comments on: Probability enhanced effective dimension reduction for classifying sparse functional data. *TEST*. pp. 1 - 6. Springer, 2016. Available on-line at: <<http://dx.doi.org/10.1007/s11749-015-0470-2>>.  
**Type of production:** Scientific paper **Format:** Journal



- 6** Lucía Ordóñez Mayán; Carlos Represas; Xoan Miguéns; María Sol Rodríguez Calvo; Manuel Febrero Bande; José Ignacio Muñoz Barús. How reliable is the Spanish bodily harm assessment scale?. *Journal of forensic and legal medicine*. 32, pp. 16 - 20. Elsevier, 2015.  
**Type of production:** Scientific paper **Format:** Journal
- 7** Eduardo García Portugués; Wenceslao González Manteiga; Manuel Febrero Bande. A Goodness-of-Fit test for the Functional Linear Model with scalar response. *Journal of Computational and Graphical Statistics*. 23 - 3, pp. 761 - 778. Elsevier, 2014.  
**Type of production:** Scientific paper
- 8** Sonia Rodríguez; Antonio González; Antía Simón; María S Rodríguez-Calvo; Manuel Febrero-Bande; Cristina Cordeiro; José I Muñoz-Barús. The use of computerized tomography in determining stature and sex from metatarsal bones. *Legal Medicine*. 16 - 5, pp. 252 - 257. Elsevier, 2014.  
**Type of production:** Scientific paper **Format:** Journal
- 9** Manuel Febrero Bande. Comments on: Model-free model-fitting and predictive distribution. *TEST*. 22 - 2, pp. 224 - 226. Springer, 2013.  
**Type of production:** Scientific paper
- 10** Sonia Rodríguez; Xoán Miguéns; María S. Rodríguez Calvo; Manuel Febrero Bande; José Ignacio Muñoz Barús. Estimating adult stature from radiographically determined metatarsal length in a Spanish population. *Forensic Science International*. 226 - 1-3, pp. 297.e1 - 297.e4. Elsevier, 2013. ISSN 0379-0738  
**Type of production:** Scientific paper **Format:** Journal
- 11** Febrero-Bande, M.; González-Manteiga, W. Generalized Additive Models for Functional Data. *TEST*. 22 - 2, pp. 278 - 292. Springer, 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 12** Inacio, V.; González-Manteiga, W.; Febrero-Bande, M.; Gude, F.; Alonzo, T.A.; Cadarso-Suárez, C. Extending induced ROC methodology to the functional context. *Biostatistics*. 13 - 4, pp. 594 - 608. Oxford Journals, 2012. Available on-line at: <<http://www.doi.org/10.1093/biostatistics/kxs007>>. ISSN 1465-4644  
**Type of production:** Scientific paper **Format:** Journal
- 13** Febrero-Bande, M.; Oviedo de la Fuente, M. Statistical computing in functional data analysis: the R package fda.usc. *Journal of Statistical Software*. 51 (4), pp. 1 - 28. 2012. ISSN 1548-7660  
**Type of production:** Scientific paper **Format:** Journal
- 14** Monsalve-Cobis, Abelardo E.; González-Manteiga, W.; Febrero-Bande, M. Goodness of test for interest rate models: An approach based on empirical processes. *Computational Statistics and Data Analysis*. 55 - 12, pp. 3073 - 3092. 2011.  
**Type of production:** Scientific paper **Format:** Journal
- 15** Cuesta-Albertos, JA; Febrero-Bande, M. A simple multiway ANOVA for functional data. *TEST*. 19, pp. 537 - 557. 2010.  
**Type of production:** Scientific paper **Format:** Journal
- 16** Matías, J.M.; Febrero-Bande, M.; González-Manteiga, W.; Reboredo, J.C. Boosting GARCH and neural networks for the prediction of heteroskedastic time series. *Mathematical and Computer Modelling*. 51, pp. 256 - 271. 2010.  
**Type of production:** Scientific paper **Format:** Journal
- 17** Febrero-Bande, M.; Galeano, P.; González-Manteiga, W. Measures of influence for the functional linear model with scalar response. *Journal of Multivariate Analysis*. 101, pp. 327 - 339. 2010.  
**Type of production:** Scientific paper **Format:** Journal



- 18** Muñoz Barús, JI; Rodríguez-Calvo, MS; Suárez-Peñaranda, JM; Vieira, DN; Cadarso Suárez, C.; Febrero-Bande, M. PMICALC: An R code-based software for estimating postmortem interval (PMI) compatible with Windows, Mac and Linux operating systems. *Forensic Science International*. 194 - 1, pp. 49 - 52. 2010.  
**Type of production:** Scientific paper **Format:** Journal
- 19** Castellano Méndez, M.; Franco, A.; Cartelle, D.; Febrero-Bande, M.; Roca, E.. Identification of NOx and Ozone Episodes and Estimation of Ozone by Statistical Analysis. *Water, Air and Soil Pollution*. 198, pp. 95–110. 2009.  
**Type of production:** Scientific paper **Format:** Journal
- 20** Menezes, R.; García-Soidán, P.H.; Febrero-Bande, M. A kernel variogram estimator for clustered data. *Scandinavian Journal of Statistics*. 35 - 1, pp. 18 - 37. 2008.  
**Type of production:** Scientific paper **Format:** Journal
- 21** Febrero-Bande, M. A present overview on functional data analysis. *Boletín de la Sociedad de Estadística e Investigación Operativa*. 24, pp. 7 - 14. 2008.  
**Type of production:** Scientific paper **Format:** Journal
- 22** Barús, JI; Febrero-Bande, M.; Cadarso Suárez, C. Flexible regression models for estimating postmortem interval (PMI) in forensic medicine. *Statistics in Medicine*. 27, pp. 5026 - 5038. 2008.  
**Type of production:** Scientific paper **Format:** Journal
- 23** Febrero-Bande, M.; Galeano, P.; González-Manteiga, W. Outlier detection in functional data by depth measures with application to identify abnormal NOx levels. *Environmetrics*. 19 (4), pp. 331 - 345. 2008. ISSN 1099-095X  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Statistics and Probability  
**Impact index in year of publication:** 1.06
- 24** Wenceslao González Manteiga; Manuel Febrero Bande; María Piñeiro Lamas. Semiparametric Prediction Models for Variables Related with Energy Production. *Proceeding of ECMI 2016*. Springer, 2018.  
**Type of production:** Book chapter **Format:** Book
- 25** Wenceslao González Manteiga; Jorge Zubelli; Abelardo Monsalve Cobis; Manuel Febrero Bande. Goodness of Fit Test for Stochastic Volatility Models. *From Statistics to Mathematical Finance. Festschrift in Honour of Winfried Stute*. Springer, 2017.  
**Type of production:** Book chapter **Format:** Book
- 26** Manuel Febrero Bande; Wenceslao González Manteiga; Manuel Oviedo de la Fuente. Variable selection in Functional Additive Regression Models. *Functional Statistics and Related Fields*. pp. 113 - 122. Springer, 2017.  
**Type of production:** Book chapter  
**Corresponding author:** Yes
- 27** Matías, J.M.; Febrero-Bande, M.; González-Manteiga, W.; Reboredo, J.C. Gradient Boosting GARCH and Neural Networks for Time Series Prediction. *Supervised and Unsupervised Ensemble Methods and Their Applications. Studies in Comp. Intelligence*. pp. 153 - 164. Springer, 2008.  
**Type of production:** Book chapter **Format:** Book





## Works submitted to national or international conferences

- 1** **Title of the work:** Retos estadísticos en Big Data y Data Mining  
**Name of the conference:** Congreso Bienal de la Real Sociedad Matemática Española (RSME 2017)  
**City of event:** Zaragoza, Aragon, Spain  
**Date of event:** 30/01/2017  
**End date:** 30/01/2017  
**Organising entity:** REAL SOCIEDAD MATEMATICA ESPAÑOLA  
Manuel Febrero Bande.
- 2** **Title of the work:** Predicción online de la gripe: de la teoría a la práctica  
**Name of the conference:** 3ª Reunión Nacional de la Red Biostatnet  
**City of event:** Santiago de Compostela, Galicia, Spain  
**Date of event:** 20/01/2017  
**End date:** 20/01/2017  
Manuel Oviedo de la Fuente; Manuel Febrero Bande; Luca Basile.
- 3** **Title of the work:** Goodness-of-fit tests for models with functional data  
**Name of the conference:** 9th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2016)  
**City of event:** Sevilla, Andalusia, Spain  
**Date of event:** 09/12/2016  
**End date:** 09/12/2016  
**Organising entity:** ERCIM  
Wenceslao González Manteiga; Juan Antonio Cuesta Albertos; Eduardo García Portugués; Manuel Febrero Bande.
- 4** **Title of the work:** Variable selection in functional additive Regression Models  
**Name of the conference:** 9th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2016)  
**City of event:** Sevilla, Andalusia, Spain  
**Date of event:** 09/12/2016  
**End date:** 09/12/2016  
Manuel Febrero Bande; Wenceslao González Manteiga; Manuel Oviedo de la Fuente.
- 5** **Title of the work:** Aplicaciones del control estadístico de la calidad en eficiencia energética  
**Name of the conference:** Machine Learning Workshop Galicia 2016  
**City of event:** Santiago de Compostela, Galicia, Spain  
**Date of event:** 27/10/2016  
**End date:** 27/10/2016  
**Organising entity:** Centro de Supercomputación de Galicia **Type of entity:** State agency  
Javier Tarrío Saavedra; Salvador Naya Fernández; Sonia Zaragoza; Miguel Alfonso Flores Sánchez; Manuel Oviedo de la Fuente; Manuel Febrero Bande.
- 6** **Title of the work:** Goodness-of-Fit tests for the functional linear model based on random projections  
**Name of the conference:** Satellite CRoNoS Workshop on Functional Data Analysis  
**Corresponding author:** Yes  
**City of event:** Oviedo, Principality of Asturias, Spain



**Date of event:** 26/08/2016

**End date:** 26/08/2016

**Organising entity:** ERCIM

Manuel Febrero Bande; Juan Antonio Cuesta Albertos; Eduardo García Portugués; Wenceslao González Manteiga.

**7 Title of the work:** Predicción online de la gripe

**Name of the conference:** II Encontro Galaico-Portugués de Biometría con aplicación as Ciencias da Saúde, á Ecoloxía e ás Ciencias do Medio Ambiente

**City of event:** Santiago de Compostela, Galicia, Spain

**Date of event:** 30/06/2016

**End date:** 30/06/2016

**Organising entity:** SOCIEDADE GALEGA PROMOCION ESTADISTICA E INVEST. OPERACIONS Oviedo de la Fuente, M.; Febrero-Bande, M.; Basile, L.; Torner, N.; Martínez Ana I.

**8 Title of the work:** Semiparametric prediction models for variables related with energy production

**Name of the conference:** 19th Euroean Conference on Mathematics for Industry

**City of event:** Santiago de Compostela, Galicia, Spain

**Date of event:** 13/06/2016

**End date:** 13/06/2016

Wenceslao González Manteiga; Manuel Febrero Bande; Manuel Oviedo de la Fuente.

**9 Title of the work:** Propuesta de un método para el control de calidad de la eficiencia energética basado en el estudio de datos funcionales

**Name of the conference:** XII Congreso Galego de Estatística e Investigación de Operacións

**City of event:** Lugo, Galicia, Spain

**Date of event:** 22/10/2015

**End date:** 22/10/2015

**Organising entity:** SOCIEDADE GALEGA PROMOCION ESTADISTICA E INVEST. OPERACIONS J. Tarrío Saavedra; Sonia Zaragoza; Manuel Febrero Bande; Salvador Naya Fernández.

**10 Title of the work:** Extending DD-classifier on the Functional Setting

**Name of the conference:** Congreso de la RSME, 2015

**City of event:** Granada, Andalusia, Spain

**Date of event:** 02/02/2015

**End date:** 06/02/2015

**Organising entity:** REAL SOCIEDAD MATEMATICA ESPAÑOLA Manuel Febrero Bande; Juan Cuesta Albertos; Manuel Oviedo de la Fuente.

**11 Title of the work:** Functional Data Depths and Outliers Detection

**Name of the conference:** Robust Statistics and Extremes

**Type of event:** Conference

**Geographical area:** Non EU International

**Type of participation:** Participatory - invited/keynote talk

**City of event:** Canberra, Australia

**Date of event:** 08/09/2014

**End date:** 11/09/2014

Manuel Febrero Bande.

**12 Title of the work:** Functional Regression Models with temporal and/or spatial dependence

**Name of the conference:** IWFOs 2014

**City of event:** Stresa, Italy



**Date of event:** 19/06/2014

**End date:** 21/06/2014

Manuel Febrero Bande; Manuel Oviedo de la Fuente.

- 13 Title of the work:** Extending DD-Classifier on the Functional Setting  
**Name of the conference:** 2nd International Seminar on Nonparametric Statistics  
**City of event:** Cádiz, Andalusia, Spain  
**Date of event:** 12/06/2014  
**End date:** 16/06/2014  
Manuel Febrero Bande; Juan Cuesta Albertos; Manuel Oviedo de la Fuente.

- 14 Title of the work:** Dependent Functional Regression Models with temporal and/or spatial dependence  
**Name of the conference:** 6th International Conference of the ERCIM Working Group on Computing & Statistics  
**City of event:** Londres, United Kingdom  
**Date of event:** 12/2013  
**Organising entity:** European Research Consortium for Informatics and Mathematics  
Manuel Febrero Bande; Manuel Oviedo de la Fuente.

- 15 Title of the work:** Creando paquetes en R  
**Name of the conference:** XI Congreso Galego de Estatística e Investigación de Operacións  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** A Coruña, Galicia, Spain  
**Date of event:** 24/10/2013  
**End date:** 26/10/2013  
**Organising entity:** SOCIEDADE GALEGA PROMOCION ESTADISTICA E INVEST. OPERACIONES  
Manuel Febrero Bande; Manuel Oviedo de la Fuente.

- 16 Title of the work:** Dependent Functional Regression Models for detecting influenza epidemics  
**Name of the conference:** XI Congreso Galego de Estatística e Investigación de Operacións  
**Type of participation:** Participatory - oral communication  
**City of event:** A Coruña, Galicia, Spain  
**Date of event:** 24/10/2013  
**End date:** 26/10/2013  
**Organising entity:** SOCIEDADE GALEGA PROMOCION ESTADISTICA E INVEST. OPERACIONES  
Manuel Oviedo de la Fuente; Manuel Febrero Bande; M<sup>a</sup> Pilar Muñoz Gràcia.

- 17 Title of the work:** Computational Functional Data Analysis  
**Name of the conference:** Functional and Complex Structure Data Analysis. 14th Course in the ECAS Programme  
**Geographical area:** European Union  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** Castro Urdiales, Cantabria, Spain  
**Date of event:** 17/09/2013  
**End date:** 21/09/2013  
**Organising entity:** European Courses in Advanced Statistics  
Manuel Febrero Bande.



- 18** **Title of the work:** Análisis comparativo de dos métodos de evaluación de las publicaciones científicas  
**Name of the conference:** X Foro Internacional sobre Evaluación de la calidad de la investigación y la educación superior (FECIES)  
**City of event:** Granada, Andalusia, Spain  
**Date of event:** 25/06/2013  
**End date:** 28/06/2013  
Victoria Sánchez Costa; José Ignacio Muñoz Barús; Manuel Febrero Bande; Felipe F. Casanueva.
- 19** **Title of the work:** Dependent Functional Regression Models for detecting influenza epidemics  
**Name of the conference:** XIV Conferencia Española de Biometría  
**City of event:** Ciudad Real, Castile-La Mancha, Spain  
**Date of event:** 22/05/2013  
**End date:** 24/05/2013  
**Organising entity:** SOCIEDAD ESPAÑOLA DE BIOMETRIA  
Manuel Oviedo de la Fuente; Manuel Febrero Bande; M<sup>ª</sup> Pilar Muñoz Gràcia.
- 20** **Title of the work:** Casos de éxito en Modelización en datos medioambientales  
**Name of the conference:** RSME 2013. Congreso de la Real Sociedad Matemática Española  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** Santiago de Compostela, Galicia, Spain  
**Date of event:** 21/01/2013  
**End date:** 24/01/2013  
**Organising entity:** REAL SOCIEDAD MATEMATICA ESPAÑOLA  
Manuel Febrero Bande; Wenceslao González Manteiga.
- 21** **Title of the work:** Goodness-of-fit tests for regression models: the functional data case  
**Name of the conference:** RSME 2013. Congreso de la Real Sociedad Matemática Española  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** Santiago de Compostela, Galicia, Spain  
**Date of event:** 21/01/2013  
**End date:** 24/01/2013  
**Organising entity:** REAL SOCIEDAD MATEMATICA ESPAÑOLA  
Eduardo García Portugués; Manuel Febrero Bande; Juan Antonio Cuesta Albertos; Wenceslao González Manteiga.
- 22** **Title of the work:** Day-ahead Wind Power Forecasting Based on Time Series and Functional Models  
**Name of the conference:** VI International Workshop on Spatio-Temporal Modelling (METMAVI)  
**Geographical area:** European Union  
**Type of participation:** Participatory - oral communication  
**City of event:** Guimaraes, Norte, Portugal  
**Date of event:** 12/09/2012  
Oviedo, M; Muñoz, MP; Febrero-Bande, M.12/09/2012.
- 23** **Title of the work:** Generalized Additive Models for Functional Data  
**Name of the conference:** 2012 Joint Statistical Meetings  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** San Diego, United States of America  
**Date of event:** 28/07/2012



Febrero-Bande, M.; González-Manteiga, W.28/07/2012.

- 24** **Title of the work:** A simple multiway ANOVA for functional data  
**Name of the conference:** 2nd IMS-Asia Pacific Ring Meeting  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Tsukuba, Japan  
**Date of event:** 02/07/2012  
**End date:** 04/07/2012  
Febrero-Bande, M.; Cuesta-Albertos, JA. 02/07/2012.
- 25** **Title of the work:** Goodness-of-fit test for the functional linear model with scalar response  
**Name of the conference:** 1st Conference of the International Society for Nonparametric Statistics  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Chalkidiki, Greece  
**Date of event:** 15/06/2012  
**End date:** 19/06/2012  
Febrero-Bande, M.; García-Portugués, Eduardo; González-Manteiga, W.15/06/2012.
- 26** **Title of the work:** Comparison of several supervised classification methods for functional data  
**Name of the conference:** 4th International Conference of the ERCIM Working Group on Computing & Statistics  
**Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Londres, United Kingdom  
**Date of event:** 17/12/2011  
Febrero-Bande, M.17/12/2011.
- 27** **Title of the work:** Some ideas on Regression and Classification for Functional Data  
**Name of the conference:** First Latin Workshop on Functional Data  
**Type of event:** Conference **Geographical area:** Non EU International  
**City of event:** Buenos Aires, Argentina  
**Date of event:** 05/12/2011  
Febrero-Bande, M.05/12/2011.
- 28** **Title of the work:** fda.usc: Implementation of functional GLM and GAM models in R  
**Name of the conference:** X Congreso Galego de Estatística e Investigación de Operacións  
**Geographical area:** Regional  
**Type of participation:** Participatory - oral communication  
**City of event:** Pontevedra, Galicia, Spain  
**Date of event:** 03/11/2011  
Oviedo, M.; Febrero-Bande, M."X Congreso Galego de Estatística e Investigación de Operacións. Pág. 71".  
03/11/2011.
- 29** **Title of the work:** How reliable is the Spanish Bodily Harm Assesment Scale?  
**Name of the conference:** 19th World IAFA Meeting, 9th WPMO Triennial Meeting and 5th MAFS Meeting  
**City of event:** Funchal-Madeira, Portugal  
**Date of event:** 09/2011  
Represas, C.; Miguéns, X.; Rodríguez-Calvo, MS; Febrero-Bande, M.; Muñoz-Barús, JI.



- 30** **Title of the work:** Generalized Additive Models  
**Name of the conference:** IWFOSS 2011. Second International Workshop on Functional and Operatorial Statistics  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Santander, Cantabria, Spain  
**Date of event:** 16/06/2011  
Febrero-Bande, M.; González-Manteiga, W."Recent Advances in Functional Data Analysis and Related Topics. Contributions to Statistics Pág. 91-96". 16/06/2011.
- 31** **Title of the work:** Análisis geoestadístico aplicado a datos funcionales  
**Name of the conference:** I Reunión de Trabajo del Grupo Análisis de Datos Funcionales (FDA) de la SEIO  
**Type of event:** Workshop **Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Santander, Cantabria, Spain  
**Date of event:** 15/06/2011  
Ginzo-Villamayor, MJ; Febrero-Bande, M."I Reunión de Trabajo del Grupo Análisis de Datos Funcionales Pág. 10". 15/06/2011.
- 32** **Title of the work:** Some Functional Data Tools for Environmental Control  
**Name of the conference:** Jornada de Estadística y Climatología  
**Type of event:** Workshop **Geographical area:** National  
**City of event:** Sevilla, Andalusia, Spain  
**Date of event:** 26/05/2011  
Febrero-Bande, M.26/05/2011.
- 33** **Title of the work:** fda.usc: Complemento del paquete fda para el análisis de Datos Funcionales  
**Name of the conference:** XXXII Congreso Nacional de Estadística e Investigación Operativa y VI Jornadas de Estadística Pública  
**Geographical area:** National  
**Type of participation:** Participatory - oral communication  
**City of event:** A Coruña, Galicia, Spain  
**Date of event:** 14/09/2010  
Febrero-Bande, M.; Oviedo, M."del XXXII Congreso Nacional de Estadística e Investigación Operativa y de las VI Jornadas de Estadística Pública Pág. 71". 14/09/2010.
- 34** **Title of the work:** Goodness of Fit Test for Interest Rate Models:An approach based on empirical process  
**Name of the conference:** Second Workshop of the ERCIM Working Group on Computing & Statistics  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - oral communication  
**City of event:** Limassol, Kypros / Kibris, Cyprus  
**Date of event:** 29/10/2009  
Monsalve-Cobis, Abelardo E.; Febrero-Bande, M.; González-Manteiga, W.29/10/2009.
- 35** **Title of the work:** Multidimensional Semi-parametric Prediction with Cointegration in errors for Pollution Indicators  
**Name of the conference:** 57th Session of the International Statistical Institute  
**Type of event:** Conference **Geographical area:** Non EU International  
**City of event:** Durban, South African Republic  
**Date of event:** 16/08/2009  
González-Manteiga, W.; Piñeiro-Lamas, M.; Febrero-Bande, M.16/08/2009.



- 36** **Title of the work:** Metodología y aplicaciones de la Estadística al control medioambiental  
**Name of the conference:** I Reunión conjunta Sociedad Matemática Mexicana - Real Sociedad Matemática Española  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Oaxaca, Mexico  
**Date of event:** 22/07/2009  
Febrero-Bande, M.; González-Manteiga, W.22/07/2009.
- 37** **Title of the work:** Técnicas de suavizado en estadística espacial y espacio temporal  
**Name of the conference:** I Reunión conjunta Sociedad Matemática Mexicana - Real Sociedad Matemática Española  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Oaxaca, Mexico  
**Date of event:** 22/07/2009  
Febrero-Bande, M.; González-Manteiga, W.22/07/2009.
- 38** **Title of the work:** R code for estimating Postmortem Interval (PMI) based on vitreous humor chemistry  
**Name of the conference:** XXI Congress of the International Academy of Legal Medicine  
**City of event:** Lisboa, Lisboa, Portugal  
**Date of event:** 28/05/2009  
Sestelo, M.; Muñoz Barús, JI; Suárez-Peñaranda, J.M.; Cadarso Suárez, C.; Febrero-Bande, M."Actas del Congreso". 28/05/2009.
- 39** **Title of the work:** Weekend/weekdays NOx and Ozone concentration in urban and rural areas in Galicia (NW Spain)  
**Name of the conference:** 5th EA-SDI Environmental Accounting- Sustainable Development Indicators 2009  
**City of event:** Praga, Czech Republic  
**Date of event:** 23/04/2009  
Castellano Méndez, M.; Febrero-Bande, M.23/04/2009.
- 40** **Title of the work:** Predicción Semiparamétrica Multidimensional con Cointegración en los errores. Aplicación a la Predicción simultánea de Indicadores Ambientales  
**Name of the conference:** XXXI Congreso Nacional de Estadística e Investigación Operativa y V Jornadas de Estadística Pública  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** Participatory - oral communication  
**City of event:** Murcia, Spain  
**Date of event:** 10/02/2009  
Piñeiro-Lamas, M.; Febrero-Bande, M.; González-Manteiga, W.10/02/2009.
- 41** **Title of the work:** Metodología y aplicaciones de la Estadística al control medioambiental  
**Name of the conference:** Congreso de la Real Sociedad Matemática Española  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Oviedo, Spain  
**Date of event:** 04/02/2009  
Febrero-Bande; M.; González-Manteiga; W.04/02/2009.



- 42** **Title of the work:** Selection of eigenfunctions in estimation of the functional linear model with scalar response  
**Name of the conference:** IASC 2008. The Joint Meeting of 4th World Conference of the IASC and 6th Conference of the Asian Regional Section of the IASC on Computational Statistics & Data Analysis  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Yokohama, Japan  
**Date of event:** 05/12/2008  
Febrero-Bande, M.; Galeano, P.; González-Manteiga, W.05/12/2008.
- 43** **Title of the work:** Influence in the Functional Linear Model with Scalar Response  
**Name of the conference:** IWFO'S'2008. First International Workshop on Functional and Operatorial Statistics  
**City of event:** Toulouse, France  
**Date of event:** 19/06/2008  
Febrero-Bande, M.; Galeano, P.; González-Manteiga, W.19/06/2008.