

I am a Postdoctoral Researcher at the Department of Mathematics and Applications of the University of Minho. I am focused on the development of new methodologies and algorithms related with nonparametric statistics. I am interested in estimation and inference methods of flexible regression models, in developing practical tools for data analysis and in gaining better understanding of real life issues through statistical knowledge. At the moment, my lines of research are nonparametric curves estimation, testing procedures, variable selection, software development, bootstrap resampling methods and applications to Engineering, Biology or environment.

Employment

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| 2014- | Postdoctoral Researcher at Department of Mathematics and Applications, University of Minho, Portugal. |
| 2013-14 | Postdoctoral Researcher at Department of Mathematics, Autonomous University of Barcelona, Spain. |
| 2013 | Researcher at Department of Statistics and Operations Research, University of Vigo, Spain. |
| 2013 | Visiting Lecturer at Department of Statistics and Operations Research, University of Vigo, Spain. |
| 2010-12 | Lecturer at Department of Statistics and Operations Research, University of Vigo, Spain. |
| 2010 | Researcher at Department of Statistics and Operations Research, University of Vigo, Spain. |
| 2005-09 | Researcher at Department of Animal Biology, University of Santiago de Compostela, Spain. |

Education

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| 2013 | Ph.D. in Statistics and O. R., International Doctor. University of Vigo, Spain. "Development and computational implementation of estimation and inference methods in flexible regression models. Applications in Biology, Engineering and Environment". Advisor: Javier Roca Pardiñas. Committee: Stephan Sperlich, María Durbán and Jacobo de Uña Álvarez. |
| 2012 | M.Sc. in Statistical Techniques, University of Vigo, Spain. |
| 2006 | M.Sc. in Marine Biology and Aquaculture, University of Santiago de Compostela, Spain. |
| 2004 | B.Sc. in Biology, University of Santiago de Compostela, Spain. |

Grants, honors & awards

- 2014- PostDoctoral Research Grant, Fundação para a Ciência e a Tecnologia (FCT), Ministry of Education and Science (Portugal).
- 2006-09 María Barbeito Grant (Ph.D. training), Galician Regional Government (Spain).
- 2005-06 Predoctoral Grant, Galician Regional Government (Spain).
- 2005 Assistant Lecturer Grant, University of Santiago de Compostela (Spain).
- 2003-04 Collaboration Grant, Ministry of Education, Culture and Sport (Spain).

Teaching

- 2014-15 Department of Statistics and Operations Research, University of Vigo, Spain.
- 2013-14 Department of Mathematics, Autonomous University of Barcelona, Spain.
- 2010-13 Department of Statistics and Operations Research, University of Vigo, Spain.
- 2007-09 Department of Animal Biology, University of Santiago de Compostela, Spain.

Autonomous University of Barcelona

- 2013-14 Probability Calculus. B.Sc. in Applied Statistics.
- 2013-14 Simulation, Resampling and Applications. B.Sc. in Applied Statistics.

University of Vigo

- 2014-15 Mathematics: Algebra and Statistics. B.Sc. in Engineering in Industrial Technologies.
- 2012-13 Statistics. Statistics. B.Sc. in Management and Business Administration.
- 2012-13 Statistics. Statistics. B.Sc. in Consulting and Management of the Administration.
- 2012-13 Operational Statistical Techniques. B.Sc. in Management and Business Administration.
- 2011-12 Mathematics: Algebra and Statistics. B.Sc. in Engineering in Industrial Technologies.
- 2011-12 Mathematics: Algebra and Statistics. B.Sc. in Engineering in Mechanical Engineering.
- 2011-12 Mathematics: Algebra and Statistics. B.Sc. in Engineering in Industrial Organization).
- 2011-12 Statistics: Statistics. B.Sc. in Management and Business Administration.
- 2011-12

Statistics: Statistics. B.Sc. in Commerce.

2010-11

Statistical methods of the Engineering. B.Sc. in Engineering.

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| 2010-11 | Statistical methods for the Engineering. B.Sc. in Engineering. |
| 2010-11 | Models and statistical techniques for data analysis. B.Sc. in Biology. |
| 2010-11 | Informatics: Statistics. B.Sc. in Engineering of the Energy and Engineering of the Mineral Resources and Energy. |
| | University of Santiago de Compostela |
| 2008-09 | Biological oceanography. B.Sc. in Biology. |
| 2008-09 | Water quality. Treatment quality. B.Sc. in Chemistry Engineering. |
| 2007-09 | Biology of inland waters. B.Sc. in Biology. |
| 2007-09 | General zoology. B.Sc. in Biology. |
| 2007-08 | Arthropods. B.Sc. in Biology. |
| 2007-08 | Invertebrates. B.Sc. in Biology. |

Publications

Journal articles

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| TBA | G. Bidegain, X. Guinda, M. Sestelo, J. Roca-Pardiñas, A. Puente and J.A. Juanes. Assessing the suitability of management measures in the commercial goose barnacle <i>Pollicipes pollicipes</i> (Gmelin, 1789) fishery. <i>Estuarine, Coastal and Shelf Science</i> , Submitted. |
| TBA | A. Guerra, J. Hernández-Urcera, M. E. Garcia, M. Sestelo, M. Regueira, A. F. González, M. Cabanellas-Reboredo, M. Calvo-Manazza and B. Morales-Nin. Spawning habitat selection by <i>Octopus vulgaris</i> : New information for a more suitable management of this resource. <i>Fisheries Research</i> , Submitted. |
| TBA | N. M. Villanueva, M. Sestelo, C. Ordóñez and J. Roca-Pardiñas. Comparing regression functions with an automatic selection of groups. <i>Technometrics</i> , Submitted. |
| TBA | M. Sestelo and J. Roca-Pardiñas. Testing critical points of regression curves. An application to the management of aquatic living resources. <i>The Annals of Applied Statistics</i> , Submitted. |
| 2014 | A. Guerra, J. Hernández-Urcera, M. E. Garcia, M. Sestelo, M. Regueira, A. F. González, M. Cabanellas-Reboredo, M. Calvo-Manazza and B. Morales-Nin. Dwellers in dens on sandy bottoms: Ecological and behavioural traits of <i>Octopus vulgaris</i> . <i>Scientia Marina</i> , 78 (3), 405-414. DOI: http://dx.doi.org/10.3989/scimar.04071.28F |
| 2014 | M. Sestelo, J. Roca-Pardiñas and C. Ordóñez. Predicting SO ₂ pollution incidents by means of additive models with optimum variable selection. <i>Atmospheric Environment</i> , 95, 151-157. DOI: 10.1016/j.atmosenv.2014.06.025 |

- 2013 N. M. Villanueva, M. Sestelo, C. Ordóñez and J. Roca-Pardiñas. Comparing regression functions with an automatic selection of groups. *Discussion Papers in Statistics and Operations Research*, nº 13/07.
- 2013 M. Sestelo, N. M. Villanueva and J. Roca-Pardiñas. *FWDselect*: Variable selection algorithm in regression models. *Discussion Papers in Statistics and Operations Research*, nº 13/02.
- 2013 G. Bidegain, M. Sestelo, J. Roca-Pardiñas and J. A. Juanes. Estimating a new suitable catch size for two clam species: Implications for shellfishery management. *Ocean and Coastal Management*, 71, 52–63. DOI: 10.1016/j.ocecoaman.2012.09.009
- 2012 M. Sestelo and J. Roca-Pardiñas. Testing critical points of regression curves. An application to the management of aquatic living resources. *Discussion Papers in Statistics and Operations Research*, nº 12/06.
- 2012 C. Ordóñez, M. Sestelo, J. Roca-Pardiñas and E. Covián. Variable selection in regression models used to analyse Global Positioning System accuracy in forest environments. *Applied Mathematics and Computation*, 219, 2220–2230. DOI: 10.1016/j.amc.2012.08.069
- 2011 M. Sestelo, N. M. Villanueva and J. Roca-Pardiñas. Selecting variables in regression models. A new approach to the prediction of time series of SO₂. *AIP Conference Proceedings*, 1389, 1984–1987. DOI: 10.1063/1.3637003
- 2011 N. M. Villanueva, M. Sestelo and J. Roca-Pardiñas. An R package for analysing factor-by-curve interactions *AIP Conference Proceedings*, 1389, 1809–1812. DOI: 10.1063/1.3636960
- 2011 M. Sestelo and J. Roca-Pardiñas. A new approach to estimation of the length-weight relationship of *Pollicipes pollicipes* (Gmelin, 1789) on the Atlantic coast of Galicia (Northwest Spain): Some aspects of its biology and management. *Journal of Shellfish Research*, 30 (3), 939–948. DOI: 10.2983/035.030.0336
- 2010 M. Sestelo and J. Roca-Pardiñas. Length-weight relationship of *Pollicipes pollicipes* (Gmelin, 1789) on the Atlantic coast of Galicia (NW Spain). Some aspects of its biology and management. *Discussion Papers in Statistics and Operations Research*, nº 10/02 .

Book chapters

- 2014 I. Martínez-Silva, M. Sestelo, G. Bidegain, A. Lorenzo-Arribas and J. Roca-Pardiñas. Nonparametric regression applied to sea urchin growth. In *Sea Urchins: Habitat, Embryonic Development and Importance in the Environment*. Marine Biology Series. Editor: E. Raymond Banks. Nova Publishers. ISBN: 978-1-63321-517-7.

Technical documents and Proceedings

- 2012 N. M. Villanueva, M. Sestelo, M. M. Fonseca and J. Roca-Pardiñas. Strand asymmetries in mitogenomes: toward detection of change points. *Proceedings of Computational Statistics (20th International Conference on Computational Statistics, COMPSTAT 2012)*.
- 2012 M. Sestelo, N. M. Villanueva and J. Roca-Pardiñas. Selection algorithm in regression models. *FWDselect* package. *Proceedings of Computational Statistics (20th International Conference on Computational Statistics, COMPSTAT 2012)*.

- 2011 M. Sestelo, N. M. Villanueva and J. Roca-Pardiñas. A forward stepwise algorithm to select variables in regression context. *Actas del X Congreso Galego de Estatística e Investigación de Operacións*, 2011.
- 2011 N. M. Villanueva, M. Sestelo and J. Roca-Pardiñas. *NPRegFast*: Analyzing factor by curve interactions. *Actas del X Congreso Galego de Estatística e Investigación de Operacións*, 2011.
- 2010 M. Sestelo and J. Roca-Pardiñas. Application of derivatives in the management of *Pollicipes pollicipes* (Gmelin, 1789) on the Atlantic coast of Galicia (NW Spain). *Actas del XXXII Congreso Nacional de Estadística e Investigación Operativa*, 2010.
- 2009 M. Sestelo, J. Roca-Pardiñas, V. Lustres and E. Fernández-Pulpeiro. Diferenciación geográfica en la talla mínima de captura de *Pollicipes Pollicipes* (Gmelin, 1789) en la costa atlántica gallega. *Interacciones factor-por-curva*. *Actas del IX Congreso Galego de Estatística e Investigación de Operacións*, 2009, 79–82.
- 2009 M. Sestelo, J. Roca-Pardiñas, V. Lustres and E. Fernández-Pulpeiro. Recartografiado y dinámica de poblaciones de especies de invertebrados marinos asociadas a sustratos rocosos de la Costa da Morte. Technical Document, Fundación Arao, 79–82.

Software

- **NPRegfast package**
- Author and maintainer of *NPRegfast*, an R package to perform nonparametric estimation for analyzing interactions factor-by-curve. This package allows the user to obtain nonparametric estimates using local linear kernel smoothers and compare them between factor's levels. Also a feature of the package is its ability to draw inference about critical points, such as maxima or change points linked to the derivative curves. The inference (confidence intervals and tests) is based on bootstrap. This package allows not only to obtain smooth estimates also based on classical parametric models, as allometric model, one of the most used models in biology frameworks usually used to study the relationship between two biometrical variables. Additionally, we have implemented binning type acceleration techniques.
- 2013 **FWDselect package**
- Author and mantainer of *FWDselect* (<http://cran.r-project.org/web/packages/FWDselect>), an R package that introduces a simple method to select the best model or best subset of variables using different types of data (continuous, binary or poisson) and applying it in different contexts (parametric or nonparametric).
- 2012 **seq2R package**
- Author of *seq2R* (<http://cran.r-project.org/web/packages/seq2R>), an R package to detect compositional changes in genomic sequences. This software is useful for loading .fasta or .gbk files, and for retrieving sequences from GenBank dataset. This package allows to detect differences or asymmetries based on nucleotide composition by using local linear kernel smoothers. Also, it is possible to draw inference about critical points (i. e. maximum or minimum points) related with the derivative curves. Additionally, bootstrap methods have been used for estimating confidence intervals and speed computational techniques (binning techniques) have been implemented in *seq2R*.

Conferences presentations

- 2014 “Detecting critical points of regression curves. An application to the management of aquatic living resources”, with N. M. Villanueva and J. Roca-Pardiñas. The R User Conference 2014 (useR! 2014), UCLA, Los Angeles, USA.
- 2014 “seq2R: Analyzing compositional asymmetries in DNA”, with N. M. Villanueva and J. Roca-Pardiñas. The R User Conference 2014 (useR! 2014), UCLA, Los Angeles, USA.
- 2013 “Selección de variables aplicada a la identificación de factores de riesgo de lesión en fútbol profesional”, with M. C. Iglesias-Pérez, M. Martínez-González, L. Casáis-Martínez and J. Roca-Pardiñas. XI Congreso Galego de Estatística e Investigación de Operacións, A Coruña, Spain.
- 2013 “Cluster analysis of regression curves”, with N. M. Villanueva and J. Roca-Pardiñas. XI Congreso Galego de Estatística e Investigación de Operacións, A Coruña, Spain.
- 2013 “Análisis clúster de curvas de regresión no paramétrica en recursos marinos”, with N. M. Villanueva and J. Roca-Pardiñas. I Encontro Luso-Galaico de Biometría, Braga, Portugal.
- 2013 “Identificación de factores de riesgo de lesión el fútbol profesional”, with M. C. Iglesias-Pérez, M. Martínez-González, L. Casáis-Martínez and J. Roca-Pardiñas. I Encontro Luso-Galaico de Biometría, Braga, Portugal.
- 2013 “NPRegfast: Inference methods in regression models including factor-by-curve”, with N. M. Villanueva and J. Roca-Pardiñas. The R User Conference 2013 (useR! 2013), Albacete, Spain.
- 2013 “Variable selection algorithm implemented in FWDselect”, with N. M. Villanueva and J. Roca-Pardiñas. The R User Conference 2013 (useR! 2013), Albacete, Spain.
- 2013 “seq2R: Detecting DNA compositional change points”, with N. M. Villanueva and J. Roca-Pardiñas. The R User Conference 2013 (useR! 2013), Albacete, Spain.
- 2013 “Métodos estadísticos de selección de variables en modelos de regresión multivariantes. Aplicaciones en medioambiente y salud”, with N. M. Villanueva and J. Roca-Pardiñas. Congreso de la Real Sociedad Matemática Española (RSME 2013), Santiago de Compostela, Spain.
- 2012 “Multivariate quantile regression based on Additive Models”, with I. Martínez-Silva, N. M. Villanueva and J. Roca-Pardiñas. International Conference of the ERCIM Working Group on Computing & Statistics, Oviedo, Spain.
- 2012 “Change points analysis in regression models”, with N. M. Villanueva and J. Roca-Pardiñas. International Conference of the ERCIM Working Group on Computing & Statistics, Oviedo, Spain.
- 2012 “seq2R: Detección de puntos de cambio en secuencias genómicas”, with N. M. Villanueva and J. Roca-Pardiñas. IV Jornadas de Usuarios de R, Barcelona, Spain.
- 2012 “FWDselect: Variable selection in regression models”, with N. M. Villanueva and J. Roca-Pardiñas. IV Jornadas de Usuarios de R, Barcelona, Spain.
- 2012 “Strand asymmetries in mitogenomes: toward detection of change points”, with N. M. Villanueva and J. Roca-Pardiñas. 20th Computational Conference on Computational Statistics (COMPSTAT 2012),

Limassol, Cyprus.

- 2012 “Selection algorithm in regression models. FWDselect package”, with N. M. Villanueva and J. Roca-Pardiñas. 20th Computational Conference on Computational Statistics (COMPSTAT 2012), Limassol, Cyprus.
- 2012 “Predicting SO₂ pollution incidents in the vicinity of a coal-fire power station using generalized additive models and bootstrapping”, with J. Roca-Pardiñas, C. Ordóñez and S. García-Cortés. Mathematical Modelling in Engineering & human Behaviour 2012 Conference, Valencia, Spain.
- 2012 “Detection of change points mitochondrial DNA”, with N. M. Villanueva and J. Roca-Pardiñas. Bioinformatics Open Days, Braga, Portugal.
- 2011 “Un paquete de R para analizar interacciones factor por curva”, with N. M. Villanueva and J. Roca-Pardiñas. III Jornadas de Usuarios de R, Madrid, Spain.
- 2011 “NPREgFast: analyzing factor-by-curve interactions”, with N. M. Villanueva and J. Roca-Pardiñas. X Congreso Galego de Estatística e Investigación de Operacións, Pontevedra, Spain.
- 2011 “A forward stepwise algorithm to select variables in regression context”, with N. M. Villanueva and J. Roca-Pardiñas. X Congreso Galego de Estatística e Investigación de Operacións, Pontevedra, Spain.
- 2011 “An R package for analyzing factor-by-curve interactions”, with N. M. Villanueva and J. Roca-Pardiñas. International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2011), Halkidiki, Greece.
- 2011 “Selecting variables in regression models. A new approach to the prediction of time series of SO₂”, with N. M. Villanueva and J. Roca-Pardiñas. International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2011), Halkidiki, Greece.
- 2011 “A non parametric model for estimating an ideal size of capture for *Ruditapes decussatus* (native) and *Ruditapes phillipinarum* (introduced) bivalves on the northern coast of Spain (Cantabrian Sea). Considerations for fisheries management”, with G. Bidegain, J. Roca-Pardiñas and J. A. Juanes. Symposium Estuaries and lagoons ecosystem trajectories, Bordeaux, France.
- 2011 “An alternative model for estimating the length-weight relationship of *Ruditapes decussatus* (native) and *Ruditapes phillipinarum* (introduced) bivalves on the northern coast of Spain”, with G. Bidegain, J. Roca-Pardiñas and J. A. Juanes. 6th Congress of European Malacological Societies, Vitoria, Spain.
- 2010 “Application of derivatives in the management of *Pollicipes pollicipes* (Gmelin, 1789) on the Atlantic coast of Galicia (NW Spain)”, with J. Roca-Pardiñas. XXXII Congreso Nacional de Estadística e Investigación Operativa, A Coruña, Spain.
- 2010 “Estimación no paramétrica de la talla mínima de captura de *Pollicipes pollicipes* (Gmelin, 1789). Interacciones factor-por-curva”, with J. Roca-Pardiñas. XVI Simposio Ibérico de Estudios de Biología Marina, Alicante, Spain.
- 2009 “Diferenciación geográfica en la talla mínima de captura de *Pollicipes Pollicipes* (Gmelin, 1789) en la costa atlántica gallega. Interacciones factor-por-curva”, with J. Roca-Pardiñas, V. Lustres-Pérez and E. Fernández-Pulpeiro. IX Congreso Galego de Estatística e Investigación de Operacións, Ourense, Spain.

- 2009 “Estimación de la talla mínima idónea de captura de *Pollicipes pollicipes* (Gmelin, 1789) en las costas atlánticas gallegas”, with J. Roca-Pardiñas, M. Pazos-Pata, V. Lustres-Pérez, C. Cadarso-Suárez and E. Fernández-Pulpeiro. II International Symposium in Marine Sciences, Vigo, Spain.
- 2007 “Fijación de nuevos individuos de *Pollicipes pollicipes* (Gmelin, 1789) en las costas atlánticas gallegas”, with V. Lustres-Pérez and E. Fernández-Pulpeiro. I Foro Iberoamericano de los Recursos Marinos y de la Acuicultura, O Grove (Pontevedra), Spain.
- 2006 “Gradiente dimensional de epibiontes a lo largo del cuerpo de *Pollicipes pollicipes* (Gmelin, 1789) en las costas atlánticas gallegas”, with E. Brea-Bermejo, V. Lustres-Pérez, J. Souto-Derungs, M. Pazos-Pata and E. Fernández-Pulpeiro. IX Foro dos Recursos Mariños e da Acuicultura das Rías Galegas, O Grove (Pontevedra), Spain.

Invited research seminars

- 2013 “Testing critical points of regression curves. An application to the management of aquatic living resources”, Department of Mathematics, Autonomous University of Barcelona.
- 2013 “Workshop on creation of packages and reports with R”, Vicerrectorado de Alumnado, Docencia y Calidad, University of Vigo.
- 2013 “FWDselect: An R package for selecting variables in regression models”, Department of Statistics and O. R., University of Vigo.
- 2012 “Testing critical points of regression curves. An application to the management of aquatic living resources”, Department of Statistics and O. R., University of Vigo.
- 2010 “Método para la estimación no paramétrica de la talla mínima de captura de *Pollicipes pollicipes* (Gmelin, 1789) en la costa atlántica de Galicia (N.O. España)”, Department of Statistics and O. R., University of Vigo.

Research projects participation

- 2012-14 Inferencia estadística flexible: avances metodológicos y nuevas aplicaciones en biomedicina, ingeniería, y salud, Ministry of Science and Education, Spanish government (MTM2011-23204. 2012-2014).
- 2012-13 Contrato-Programa con Grupos de Referencia de Investigación Competitivas. Programa de consolidación de unidades de investigación competitivas do SUG, Galician government.
- 2011 Avances na área de estadística e investigación operativa, University of Vigo.
- 2011-12 Contrato-Programa con Grupos de Referencia de Investigación Competitivas, University of Vigo.
- 2010-12 Avaliación da incidencia da modificación de aparellos no consumo de combustible en buques pesqueiros (Cooperativa de Armadores del Pesca del Puerto de Vigo – ARVI), Ministry of Economy and Industry, Galician government.

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| 2010-12 | Bioinformatics Galician Net, Department of Education and University Planning, Regional Government of Galicia. |
| 2010 | Consolidación y Estructuración de Unidades de Investigación Competitivas (2 renovación), Galician government. |
| 2010-11 | Análisis de los principales efectos derivados de la introducción y generalización del uso de artes de pesca selectivos. PSE_REDES - PSS-0600000-2009-36-3, Ministry of Science and Education, Spanish government. |
| 2009-10 | Análisis de los principales efectos derivados de la introducción y generalización del uso de artes de pesca selectivos, Ministry of Science and Education, Spanish government (PSE_REDES - PSS-0600000-2009-36-2). |
| 20010-11 | Métodos estadísticos flexibles para la mejora de la selectividad y la selección de artes de pesca para la reducción de los descartes. PSE_REDES - PSS-0600000-2009-33-2, Ministry of Science and Education, Spanish government. |
| 2009-10 | Métodos estadísticos flexibles para la mejora de la selectividad y la selección de artes de pesca para la reducción de los descartes, Ministry of Science and Education, Spanish government (PSE_REDES - PSS-0600000-2009-33). |
| 2009-11 | Inferencia estadística flexible: avances metodolóxicos e novas aplicacións á Enxeñería, á Economía e ás Ciencias Biomédicas, Ministry of Science and Education, Spanish government (MTM20008-03129). |
| 2009-12 | Contribución a un mellor coñecemento das patologías dende unha perspectiva multidisciplinar, INBIOMED (Investigación Biomédica), Department of Education and University Planning, Regional Government of Galicia. |
| 2009-10 | Avaliación de stocks e seguimento da extracción de <i>Anemonia viridis</i> (Forsk., 1775) en distintos puntos das costas galegas, Sea Regional Government of Galicia. |
| 2007-09 | Modelización da fixación da semente de mexillón nas costas galegas. Perfeccionamento da súa cartografía. Optimización da súa extracción e control de calidade do mexillón adulto, Regional Government of Galicia (07MMA001200PR). |
| 2005-07 | Recartografiado y dinámica de poblaciones de algunas especies de invertebrados marinos asociados a sustratos rocosos de la Costa da Morte, Fundación Arao, Regional Government of Galicia (2004/CL592). |
| 2005-06 | Estudio sobre la valorización de subproductos de peces en piscifactorias. Aspectos bioquímicos e microbiológicos, Ministry of Environment and Rural and Marine Affairs, Spain (JACUMAR 2004 00518). |

Research stays

Postdoctoral stays

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| 2013-14 | Department of Mathematics, Autonomous University of Barcelona, Spain. |
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Predoctoral stays

- 2012 Department of Mathematics and Applications, University of Minho, Portugal. Luis Meira Machado. Oct–Dec 2012.
- 2012 Department of Mine Exploitation and Exploration, University of Oviedo, Spain. Celestino Ordóñez. Sep 2012.
- 2007 University of Las Palmas, Boa Vista Island, Cape Green. Aug 2007.
- 2004 Observatoire Océanologique de Roscoff (Roscoff Marine Station), Université Pierre et Marie Curie, France. Aug 2004.

Patent and software registration

- 2012 NPRegfast, with N. M. Villanueva and J. Roca-Pardiñas. Regional office for the intellectual property, Galician Regional Government. (Reference numbers: 03/2012/1096 – VGo83-12).

Service to the profession

- 2013 Organizing Committee of the I Portuguese-Galician Meeting of Biometry, Braga, Portugal. <http://biometria2013-en.weebly.com>
- 2013 Reviewer of the International Journal of Computer Mathematics.
- 2011– Member of Red Española Matemática-Industria (math-in network).
- 2010– Member of the Statistical Inference, Decision and Operations Research Group (SiDOR).

Courses / Advanced training

- 2013 “Introduction to Mixed Models” (given by Prof. María Durbán), Vicerrectorado de Alumnado, Docencia y Calidad, University of Vigo, Spain.
- 2013 “Workshop on creation of packages and reports with R”, Vicerrectorado de Alumnado, Docencia y Calidad, University of Vigo, Spain.
- 2012 “Computing for data Analysis”, Johns Hopkins Bloomberg School of Public Health, USA.
- 2012 “Multilevel models”, School Advanced Mathematics del Institute of Mathematics, University of Santiago de Compostela (SAM-IMAT), Spain.
- 2011 “Basic statistics applied with R: R-Excel”, SGAPEIO, Pontevedra, Spain.
- 2011 “Mathematical and computational challenges in biomedical research”, i-Math in Santiago de Compostela, Spain.

- 2011 “Applied statistics in teaching with the R software”, University of Vigo, Spain.
- 2010 “Bayesian Computing with INLA” (given by Prof. Harvard Rue), University of Santiago de Compostela, Spain.
- 2010 “International Day of Statistics”, SGAPEIO, Santiago de Compostela, Spain.
- 2010 “II Conference on Statistics in Sports”, Red Mathematica Consulting, University of Vigo, Spain.
- 2010 “Workshop on Strategic Data Analysis”, i-Math, University of Santiago de Compostela, Spain.
- 2010 “Statistical analysis with R”, Programa de Formación e Innovación Docente, University of Santiago de Compostela, Spain.
- 2009 “Workshop on Oceanography and Statistical and Computational Hydraulics”, i-Math, University of Santiago de Compostela, Spain.
- 2008 “Introduction to Geographic Information Systems with ArcView”, University of Santiago de Compostela, Spain.

Teaching capabilities

- 2012-13 Curso de Iniciación á Formación para a Docencia Universitaria (University Teaching Training Course), University of Vigo, Spain.
- 2004-05 Curso de Aptitud Pedagógica (Teacher Training Course), University of Santiago de Compostela, Spain.
- 2011-12 Positive Teacher Evaluation by University of Vigo, score: 4.46/5.
- 2010-11 Positive Teacher Evaluation by University of Vigo, score: 4.27/5.

Computer skills and Languages

Experience programming in R, FORTRAN, L^AT_EX, Markdown, Maple.

Advanced user knowledge of the operative systems Mac OS, Linux and Windows.

Experience with SPSS, Maxima, Lindo, Microsoft Office, Bibtex, Refworks software.

Spanish, Galician – Native, English, Portuguese – Upper Intermediate.

Extra

- 2007 Certificate of competency and seaman’s book, Escola Oficial Nautico–Pesqueira, Ferrol, Spain.
- 2006 Scuba diving. 1 star, FEDAS.

Celga 4, Galician Languages Certificate.

References

Jacobo de Uña Álvarez. Dep. Statistics and O. R., University of Vigo. jacobo@uvigo.es

Javier Roca Pardiñas. Dep. Statistics and O. R., University of Vigo. roca@uvigo.es

Juan Carlos Pardo Fernández. Dep. Statistics and O. R., University of Vigo. juancp@uvigo.es

Departament de Matemàtiques
Universitat Autònoma de Barcelona
08193 Bellaterra (Cerdanyola del Vallès)
webs.uvigo.es/sestelo

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