

# Curriculum Vitae

Jesús Palomo

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## CURRICULUM VITAE

### 1. PERSONAL

- NAME: Jesús Palomo jesus.palomo@urjc.es
- BORN: May 20<sup>th</sup> 1974, Madrid (Spain).
- CURRENT PROFESSIONAL STATUS: Associate Professor, Rey Juan Carlos University (URJC), Department of Business Administration. Since June 2007.

### 2. RECENT PROFESSIONAL TRAJECTORY

- XXXVIII National Defense Course, Higher National Defense Studies, Spanish Ministry of Defense, 2018.
- Director of Undergraduate final Studies, FCJS-URJC. May 2017 – January 2018.
- Positive evaluations of the Academic activity by the Spanish Evaluation Programs ANECA and ACAP. Positive evaluations of the Research activity by the Evaluation Program ANECA. Positive evaluations of the Teaching activity by the Evaluation Program ACAP.
- Director of the Research and Advanced Studies Group (ReAS) URJC since 2008. Previously, Director of the Educational Innovation Research Group URJC.
- Mentor for Students of Business Administration Program, since September 2011.
- Director of the *I International Practitioners Course in Asset Recovery and Financial Investigation*. Development of the eLearning platform. 2011.
- Director of Postgraduate Studies, URJC. April 2010 – March 2011.
- Expert member of the curricula evaluation committee to award the *Fundación Carolina* grants on EADA's Masters programs. Years 2008, 2009, 2010, 2011.
- Spanish civil-researcher at the Research Division of the NATO Defence College (Roma). 2007 - 2008.
- Organizer of the workshop: *Seminarios avanzados en Ingeniería de la Decisión*. Madrid, 2007.
- Chair-founder of Universidad Rey Juan Carlos *ACM Chapter*. ACM member number: UK69235.

### 3. UNIVERSITY BACKGROUND

- Ph.D. in Computer Sciences and Mathematical Modeling, (2000-2003). Rey Juan Carlos University (Madrid).  
Thesis title: *Bayesian methods in bidding processes*.  
Advisors: David Ríos Insua and Fabrizio Ruggeri.  
**Finalist for the 2004 L.S. Savage Prize. Honourable Mention Award for Applications** (International prize for dissertations

on Bayesian statistics) sponsored by The International Society for Bayesian Analysis (ISBA)

- B.Sc. in Management Computer Science at Rey Juan Carlos University (Spain). **Extraordinary Mention**. September 2000.  
Final project: An Intelligent System for Reservoir Operations: Preferences and Optimization Modules. Advisor: David Ríos Insua.
- MA in Economics and Business Administration (Finance) at Complutense University of Madrid (Spain). June 1997.
- BA in Business Administration (Marketing) at Complutense University of Madrid (Spain). June 1995

#### 4. RESEARCH POSITIONS ABROAD

- Post-doctoral positions:
  - Post-doctoral fellow, National Institute of Environmental Health Sciences, Biostatistics branch. National Institutes of Health (USA). October 2005 - February 2006. PI: David B. Dunson.
  - Post-doctoral Associate at Duke University (ISDS) - Statistical and Applied Mathematical Sciences Institute. October 2003, 2 years. Programs: “Data mining and machine learning” (2003), “Latent variables models in social sciences” (2004). PI: James O. Berger and David B. Dunson.
- As visiting researcher:
  - Georgetown University, (USA) November, 2015, 1 month, GI-WPS. Project: “Bibliometric analysis of the publications on Women, Peace and Security”, with M. Alam,
  - UC-Santa Cruz, (USA) October, 2015, 1 month, AMS Department. Project: “Bayesian Financial Econometrics”, with A. Rodriguez,
  - UC-Santa Cruz, (USA), October, 2008, 4 months, AMS Department. Project: “Dynamic linear models with applications on Defense Economics”, with A. Rodriguez,
  - NADEFCOL, Rome (Italy), September, 2007, 6 months. Project: “Cohesion on Defense Expenditures. A bridge between NATO and the EU”, with Gen. F. Yaniz and Amb. C. Coops. Leader of the Research Note 9 by D. Felber.
  - ISEG, Lisbon (Portugal), July 2007, May 2008, June 2011. Dep. of Mathematics, Universidade Técnica de Lisboa. Project “Complex Computer Models”, with R. Paulo.
  - CNR-IMATI Milan (Italy),
    - \* February 2002, 7 months. Research fellow. “Project costing in auctions for a construction company”. Participants: Snamprogetti-ENI, CNR-IMATI, Politecnico di Milano. PI: F. Ruggeri.

- \* May 2003, 3 months. Research fellow. “Towards Electronic Democracy”. Participants: ESF, CNR-IMATI, many other European universities. PI: F. Ruggeri.
- \* October 2006, 2 months. Research fellow. “Forecasting methods for electricity markets”. Participants: ORS, s.r.l. and CNR-IMATI. PI: M. Pievatolo and F. Ruggeri.
- CNR-IAMI Milan (Italy), February 2001, 7 months. Research fellow. “Bidding in auctions for a petroleum company”. Participants: Snamprogetti, CNR-IAMI, Politecnico di Milano. PI: F. Ruggeri.

## 5. TEACHING POSITIONS

- POSITIVE evaluation of the Academic activity by the Spanish Evaluation Programs ANECA 2014 and ACAP 2011 and ACAP 2009.
- POSITIVE evaluation of the individual teaching activity in the period 2006-07, 2007-08, 2008-09. DOCENTIA Program 2009. POSITIVE evaluation of the Academic activity by the ACAP 2012. EXCELLENT evaluation of the individual teaching activity in the period 2009-10, 2010-11, 2011-12. DOCENTIA Program 2012. POSITIVE evaluation of the Academic activity by the ACAP 2015. EXCELLENT evaluation of the individual teaching activity in the period 2012-13, 2013-14, 2014-15. DOCENTIA Program 2015.
- Member of the Committee to evaluate the implementation of the eLearning platform Moodle at the URJC.
- Permanent Member of the Organizing Committee for the Standing Seminar for Entrepreneurs and Leadership. URJC. Since 2013.
- Mentor for Students of Business Administration Program, since September 2011.
- Elected member by the Spanish Atlantic Association for the Academic representation for NATO. Official Visits NATO-HQ June 22<sup>th</sup> 2009 and October 24<sup>th</sup> 2013.
- Coordinator for the ACE Manager Program by BNP Paribas at the URJC. Coach of students teams.
- Coordinator of the courses:
  - Financial Management II in the *Double Degree in Business Administration and Management and Advertising and Public Relations*, and *Double Degree in Tourism and Business Administration and Management*, URJC. Courses 2012-2013, 2013-2014, 2014-2015, 2015-2016.
  - Financial Management in the *Degree Business Administration and Management*, URJC. Courses 2011-2012, 2012-2013, 2013-2014, 2014-2015.
  - Financial Management in the *Double Degree in Business Administration and Management and Law*, URJC. Courses 2011-2012, 2012-2013, 2013-2014, 2014-2015.

- The financial and insurance company in the *Degree in financial economics and actuarial*, URJC. Course 2011-2012.
- International Financial Markets in the *Degree in Business Administration and Management*, URJC. Courses 2011-2012, 2012-2013, 2013-2014, 2014-2015.
- Director of the *I International Practitioners Course in Asset Recovery and Financial Investigation*. Development of the eLearning platform. 2011.
- Director of Postgraduate Studies, URJC. April 2010 - March 2011.
- Coordinator of the course Information Logistics Technologies, *Official Masters Program in Logistics of the Defence and Security Systems*. URJC. Since 2009.
- Coordinator of the module: *Decision support systems and business intelligent*. Masters Degree in Information Systems and Communications for Security and Defence. 2006–2007.
- Coordinator of the *Official Masters Program in Engineering Decision Making*. URJC. 2006 - 2007.
- Associate Professor. URJC, Department of Business Administration. Since November 2011.
- Assistant Professor. URJC, Department of Business Administration. June 2007 - November 2011.
- Assistant Professor. URJC, Statistics and Operations Research Department. February 2006 - June 2007.
- Director of the course: *How to avoid wrong environmental decisions*, Fundacion Biodiversidad, Ministry of Environment, Spain. On-line course. Developer of the on-line module. 2003.
- Teaching Assistant, URJC, Statistics and Decision Sciences group, full time, recitation and laboratories. October 2000 - 2003.
- Teaching-Consultant at the Department of Statistics, Oberta University of Catalunya (Spain). Since September 2000.

## 6. TEACHING ACTIVITY

- *Courses 2011-2017*, URJC.
  - *Financial Management II*. MA. Business Administration. 4 hours/week.
  - *International Financial Markets*. MA. Business Administration and Bilingual degrees. 4 hours/week each.
  - *Business Assessment and Acquisition*. MA. Business Administration. 4 hours/week. Course 2012-2013.
- *Courses 2007-2011*, URJC.
  - *Information Logistics Technologies*, Official Masters Program in Logistics of the Defence and Security Systems. Courses 09-10, 10-11. 3 ECTS credits.
  - *International Financial Markets*. MA. Business Administration and Bilingual degrees. 4 hours/week each.
  - *Official Masters Degree on Financial Management, I.F.M.*, 4 hours/week.
- *Course 06-07*, URJC.
  - *Environmental Decision Support Systems*. B.Sc. Environmental Studies. 5 hours/week.
  - *Introduction to Statistics in the Administration I and II*. B.A. in Public Administration. 5 hours/week each.
  - *Decision Support Systems in Hydrology*. Masters course in Hydrology Studies.
  - *Risk Management*. Masters course in Engineering Decision Making.
- *Course 05-06*, URJC.
  - *Introduction to Statistics in the Administration II*. B.A. in Public Administration. 5 hours/week.
- *Course 03-04, Course 02-03 and Course 01-02*, URJC.
  - *Simulation Methods*. B.Sc. in Computer Science. 3 hours/week.
  - *Decision Support Systems*. B.Sc. in Computer Science. 3 hours/week.
- *Course 00-01*, URJC.
  - *Simulation Methods*. B.Sc. in Computer Science. 2 hours/week.
  - *Decision Support Systems*. B.Sc. in Computer Science. 2 hours/week.
  - *Engineering Statistics Methods*. B.Sc. Chemistry Engineering. 2 hours/week.
- **Other Courses Given**
  - (1) Tutorial: *Statistical Analysis of Computer Models using R*, The R User Conference 2013, University of Castilla-La Mancha, Albacete, July 2013.
  - (2) Course: *A risk management model based on game theory*. URJC Summer Courses: Innovation for security in ICT. July 2012.
  - (3) Course: *I International Practitioners Course in Asset Recovery and Financial Investigation*, 120 hours. June 2011, CEART Project CNP - URJC, Aranjuez.

- (4) Course: *International Financial Markets: Making Hard Decisions*, 40 hours, May 2011, University of Applied Sciences, Faculty of Business Management and Social Sciences. Fachhochschule Osnabrück.
- (5) Course: *International Financial Markets: Making Hard Decisions*, 40 hours, May 2009, University of Applied Sciences Osnabrück.
- (6) Course: Electronic negotiation. Masters Degree in Engineering Decision Making. URJC. June 2006.
- (7) Course: Decision support systems and business intelligent. Masters Degree in Information Systems and Communications for Security and Defence. XXXII course, School of Computer Sciences, Spanish Army. May-June 2006.
- (8) Lecture on Generalized Linear Models (Ph.D. course). ISDS-Duke University. September 1<sup>st</sup>, 2005.
- (9) On-line course: How to avoid wrong environmental decisions, Fundacion Biodiversidad, Ministry of Environment, Spain. 150 hours. Oct. 15<sup>th</sup> - Nov. 23<sup>th</sup> 2003
- (10) Operations research in environmental problems. CIEMAT-Research Center for Energy, Environment and Technology (Ministry of Science and Technology, Spain). March, 10<sup>th</sup> - 25<sup>th</sup> 2003.
- (11) Computing methods, IMAF, Region of Madrid. 96 hours. Sep. 16<sup>th</sup> - Oct. 18<sup>th</sup> 2002.
- (12) Mathematical Programming and Operations Research for Energy and Environment studies II. CIEMAT-Research Center for Energy, Environment and Technology (Ministry of Science and Technology, Spain). April, 15<sup>th</sup> - May, 7<sup>th</sup> 2002.
- (13) Mathematical Programming and Operations Research for Energy and Environment studies I. CIEMAT-Research Center for Energy, Environment and Technology (Ministry of Science and Technology, Spain). February, 11<sup>th</sup>-22<sup>th</sup> 2002.

## 7. PUBLICATIONS

- Books

- (1) *PAYBACK Towards an EU Data management system for seized assets*, 2018. University of Trento. ISBN 978-88-8443-814-0. (with A. Di Nicola, B. Vettori, M. Angheben, A. Pellegrini, Y. Margeory, R. Nicolae, G. Camelia, V. Mihai)
- (2) *UNSCR 1325 Reload: Analyzing the Implementation of a Gender Perspective in NATO Countries and Australia*, 2017. Thomson Reuters Aranzadi. ISBN 978-84-9152-042-9. (with C. Figueroa-Domecq and J. Gil-Ruiz)
- (3) *The profitability of artworks: Study of enabling environments for the sale of fine arts and collectibles*, 2016. Dyckinson-URJC. ISBN 978849085808-0. (with A. Vico and P. Laguna)
- (4) *Analysis of the most profitable market distribution methods for fine arts and collectibles*, 2015. Dyckinson-URJC. ISBN 978-84-9085-670-3. (with A. Vico and P. Laguna)

- (5) *White Paper on Best Practices in Asset Recovery*, 2012, 292 pgs. Spanish Ministry of Interior. ISBN 978-84-8150-303-6. Editor with J.M. Colodrás, I. Blanco, B. Vettori, et al. Available Spanish Translated version.
  - (6) *La prueba pericial económica en el ámbito procesal español*, 2009, 89 pgs. URJC. ISBN 978-84-692-3225-5. (with P. Laguna and J. Vegas)
  - (7) *An Analysis of Annual National Reports to the NATO Committee on Gender Perspectives from 1999-2013: Policies, Recruitment, Retention & Operations. Findings and Recommendations*, 2015. 48 pags. NATO. ID:0684-15 NATO. (with C. Figueroa and J. Gil)
- Book chapters
    - (1) From drug trafficking to wholesale trade business. Organised crime infiltration in Spain, in *Organised Crime in European Businesses*. 2016. E. Savona, M. Riccardi, G. Berlusconi (Eds.). ISBN: 9781138191099 (with J. Marquez and P. Laguna)
    - (2) Internet as a source of practical content complementary to the formal contents in degree subjects, in *Teaching innovation with ICT as an instrument of transformation*. 2016. M. Gértrudix, N. Esteban, J.E. Hortal, M.C. Gálvez (Eds.). ISBN: 9788490859742 (with C. Figueroa and C. de la Orden)
    - (3) Organized Crime, in *Fundamental Concepts of Intelligence*. 2016. A. Diaz (Ed.). Tirant lo Blanch. ISBN 9788491193142 ISBNX 9788491193159.
    - (4) Illegal markets, investments and confiscation of criminal proceeds of crime in Spain, in *From illegal markets to legitimate businesses: the portfolio of organised crime in Europe*. 2015. E. Savona and M. Riccardi (Eds.). 2015. European Commission. ISBN 978-88-8443-595-8
    - (5) The art market, in *Culture, another engine for the economy*. 2013. OMM Editorial. ISBN 978-84-940790-5-4. (with A. Vico).
    - (6) Restoring the cultural heritage for its own economic management: a new approach towards cultural tourism, en *New Tendencies in Tourism Marketing*. 2013. OMM Press Empresa. ISBN 978-84-941606-1-5 (with A. Vico and P. Laguna)
    - (7) The art market and its relationship with money laundering, in *White Paper on Best Practices in Asset Recovery*. 2012. Spanish Ministry of Interior. ISBN 978-84-8150-303-6.
    - (8) Modelos de Ecuaciones Estructurales Bayesianos, in *Bayesian Inference applied to Marketing* (ed. C. Berné and M. Marzo). 2009. Universidad de Zaragoza. ISBN: 978-84-92774-94-4.
    - (9) Analysis of the relationship between the social corporate responsibility and the socially responsible investment. in *Business Research Yearbook. Global Business Perspectives*, (ed. R.A. Oglesby and M.G. Adams). International Academy of Business Disciplines (IABD) 2008. (with S. López and P. Laguna).



- (10) Bayesian structural equation modeling, in *Handbook of Latent Variable and Related Models* (ed. S.Y. Lee). Elsevier. 2007. pages: 163-188 (with D.B. Dunson and K.A. Bollen).
  - (11) Simulation in Industrial Statistics, in *Statistical Practice in Business and Industry*, (ed. S. Coleman, T. Greenfield, D. Stewardson and D. Montgomery), Wiley, 2008. (with J. Muruzabal, D. Rios Insua, F. Ruggeri, J. Holgado and R. Moreno)
  - (12) On combining expertise in Dynamic Linear Models, in *Multiple Participant Decision Making*, J. Andrysek, M. Karny and J. Kracik eds. *Advanced Knowledge International*, 2004. pages: 29-37 (with D. Rios Insua and F. Ruggeri)
  - (13) Bayesian decision analysis in reservoir management, in *International Environmental Modeling and Software Society*, A.E. Rizoli and A.J. Jakeman eds. *University of Lugano*, 2002. (with D. Rios Insua y Andrzej Salewicz).
  - (14) Decision support for reservoir management, in *Contributions of Statistics to the Environmental Studies*, published by Cádiz University, 2001. pages: 129-140 (with D. Rios Insua and Andrzej Salewicz)
  - (15) Some energy decision problems solved with Decision Analysis, in *Making decisions in professional contexts*, edited by *Instituto de España*, 2000. pages: 67-87 (with D. Ríos Insua)
- Articles
    - (1) Building an Educational Platform Using NLP: A Case Study in Teaching Finance. *Journal of Universal Computer Science*. 2018 In press, (with S. Montalvo and C. de la Orden) ISSN: 0948-695X.
    - (2) Is the tourism and gender research area igniting: A bibliometric analysis. *Revista Turismo & Desenvolvimento*. 2017. vol.27/28, 173-175, (with C. Figueroa-Domecq, MD Flecha, M. Segovia-Perez, A. Vico) ISSN: 2182-1453.
    - (3) Women, peace and security state-of-art: a bibliometric analysis in social sciences based on SCOPUS database. *Scientometrics*. 2017. vol.113(1). 123-148, (with C. Figueroa-Domecq and P. Laguna) ISSN: 0138-9130. DOI 10.1007/s11192-017-2484-x
    - (4) Improving learning by motivating students to read the news using ICT. *Global Journal of Business, Economics and Management: Current Issues*. 2017. vol.7(1), 89-98, (with C. de la Orden and C. Figueroa-Domecq) ISSN: 2301-2579. DOI 10.18844/gjbem.v7i1.1643
    - (5) The Use of New Data Analysis Techniques in Tourism: A Bibliometric Analysis in Data Mining, Big Data and Structural Equations Models. *e-Review of Tourism Research (eRTR)*. 2017. ENTER 2017:Volume 8 Research Notes (with C. Figueroa-Domecq, M.D. Flecha-Barrio and M. Segovia-Pérez) ISSN: 1941-5842.
    - (6) SAVE: an R Package for the Statistical Analysis of Computer Models. *Journal of Statistical Software*. 2015. vol.64(13), (with R. Paulo and G. Garcia-Donato) ISSN: 1548-7660.

- (7) Predicting the Sources of an Outbreak with a Spectral Technique. *Journal of Applied Mathematical Sciences*. 2014. vol.8(135), 6775 - 6782 (with V. Fioriti and M. Chinnici) ISSN: 1312-885X
- (8) Women, entrepreneurship and creative cultural industries: a combination on the rise in Spain in times of crisis, *Esic Market Economics and Business Journal*. 2014. vol.45(3), pags: 663-677. (with A. Vico and P. Laguna) ISSN 0212-1867
- (9) Calibration of computer models with multivariate output. *Computational Statistics and Data Analysis*. 2012. vol 56, 3959-3974. (with R. Paulo and G. Garcia-Donato).
- (10) An international platform for teaching support stemming from news. *Arbor*, CSIC. 2011. vol.187(3), pags: 249-253 (with S. Montalvo). ISSN: 0210-1963.
- (11) The evaluation of defence capabilities. A path towards a new planning system, *Boletín de Información*. Spanish Ministry of Defense. 2011. vol 318, pags: 73-117 (with F. Yaniz). ISSN: 0213-6864.
- (12) Bridging the gap between teaching and breaking news: A new approach based on ESHE and ICT. *Procedia. Social and Behavioral Sciences*. Elsevier. 2010. vol.9, 1423-1428 (with Montalvo, S. and Laguna, P.)
- (13) Structural Equation Modeling: A Bayesian Approach. Book review. *Psychometrika*. 2009. vol.74(4).
- (14) Computer Model Validation with Functional Output. *Annals of Statistics*. 2007. vol. 35(5), 1874-1906 (with Bayarri, M.J., Berger, J.O., Garcia-Donato, G., Liu, F., Paulo, R., Sacks, J., Walsh,D., Cafeo,J., Parthasarathy,R.)
- (15) Modeling external risks in project management. *Risk Analysis*. 2007. vol. 27(4), 961-978. (with D. Rios Insua and F. Ruggeri)
- (16) On Bayesian Forecasting of Procurement Delays: a Case Study. *Applied Stochastic Models in Business and Industry*. 2006. vol. 22. 181-192. (with E. Cagno, F. Caron, M. Mancini, F. Ruggeri and D. Rios Insua)
- (17) Modello per la previsione dei tempi di approvvigionamento della componentistica. In Italian. *Impiantistica Italiana*. ISSN 0394-1582. Anno XVIII, 3, 2005. (with E. Cagno, F. Caron, M. Mancini, F. Ruggeri and D. Rios Insua)
- (18) A framework for bidding in procurement auctions, *ERCIM News*, num. 57, April 2004 (with D. Rios Insua and F. Ruggeri)
- (19) Dynamic models with expert input with applications to Project Cost Forecasting. SAMS Tech. Rep. # 2004-2. (with D. Rios Insua and F. Ruggeri)
- (20) Documentation for SAVE-2 methodology. NISS Tech. Rep. 2004. (with G. Garcia-Donato)
- (21) Bayesian methods in Hydrology: A review, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales, RACSAM*, 2002. vol.96(3). pages: 461-479. (with D. Rios Insua and R. Montes)

- In proceedings with ISBN
  - (1) An application of AHP to obtain the students' preferences over the competences in higher education, 2017, IV Congreso Internacional sobre Aprendizaje, Innovación y Competitividad-CINAIC., with M. de Castro, P. Laguna and C. de la Fuente. DOI:10.26754/CINAIC.2017.000001\_026
  - (2) The consumer of tourism and the use of technology: gender differences, 2014, X Congreso de Turismo y Tecnologías de la Información y las Comunicaciones TURITEC 2014, ISBN: 978-84-617-0914-4, pags. 35-49, with C. Figueroa, M. Segovia and P. Talón.
  - (3) Breaking news a complimentary learning tool for theoretical contents, 2014, V Workshop on Innovation and ICT JITICE 2014, ISSN: 1988-8074, with C. de la Orden.
  - (4) Relationship between IBEX-35 and European sustainable indexes, 2010, XIV Encuentro AECA: Innovación y responsabilidad, desafíos y soluciones, ISBN: 978-84-96648-43-2, with S. López-Sáiz and P. Laguna.
  - (5) Plataforma para el apoyo a la docencia basada en la Web 2.0 y la actualidad relevante, JITICE 2010, I Workshop on Innovation and ICT, ISSN: 1988-8074, with S. Montalvo.
  - (6) Comparative analysis between two stock indexes: EUROSTOXX and sustainable EUROSTOXX, AEDEM, 2010, with S. López-Sáiz and P. Laguna.
  - (7) Teaching through relevant breaking news: A new tool, 2009, XI International Symposium on Computers in Education, ISBN: 978-989-20-1774-7, with S. Montalvo and E. Pardo.
  - (8) *iNews College*: una plataforma para la docencia basada en la actualidad relevante, June 2009, I Encuentro de Intercambio de Experiencias en Innovación Docente en la URJC, ISBN 978-84-692-6552-9, with S. Montalvo, E. Pardo and P. Laguna.
  - (9) Bayesian Methods in Project Management, 2004, Proceedings of the International Conference on the future of statistical theory, practice and education, with F. Ruggeri and D. Rios Insua.
  - (10) Bayesian forecasting of delivery times, 2004, JSM Proceedings, with E. Cagno, F. Caron, M. Mancini, D. Rios Insua, F. Ruggeri, A. Alippi and L. Gaddi.
  - (11) Bidding models in procurement contract auctions, 2004, Proceedings of the 11<sup>th</sup> International Conference on the Foundations and Applications of Utility, Risk and Decision Theory, with D. Rios Insua and F. Ruggeri.
  - (12) Industrial Bidding: Bayesian Models for External Risks Forecasting and Bid Formulation, 2004, Proceedings of the ISBA World Meeting, with D. Rios Insua and F. Ruggeri.
  - (13) Industrial Bidding: Bayesian Models for Internal Risks Forecasting, 2004, Proceedings of the ISBA World Meeting, with D. Rios Insua and F. Ruggeri.
  - (14) Coping with Historical Reliability of Expert Elicitation in the Integration of Subjective Judgements and Historical Data, 2002,

- Proceedings of the Second Annual Conference on Business and Industrial Statistics (ENBIS), with E. Cagno et al.
- (15) Dynamic models with expert input with applications to project costing, 2002, Proceedings of the Second Annual Conference on Business and Industrial Statistics (ENBIS), with D. Rios Insua and F. Ruggeri.
  - (16) A Bayesian discrete event simulation model for a workflow line, 2002, Proceedings of Simulation Workshop OR Society, with D. Rios Insua *et al.*.
  - (17) First-price sealed-bid models, 2001, Proceedings of the National Congress of Statistics and Operation Research XXVI, with D. Rios Insua.
- Referee activity
    - *Statistics in medicine*,
    - *Bayesian Analysis* Journal,
    - *Applied Stochastic Models in Business and Industry* Journal,
    - *Journal of the American Statistical Association*,
    - *Risk Analysis: An International Journal*,
    - *Top*, journal of statistics and operations research,
    - *Journal of Peace Research*.
    - *European Academy of Management and Business Economics*.
    - *Lifetime Data Analysis*.
    - *Esic Market Economics and Business Journal*.
  - Works in progress
    - (1) Bayesian Semiparametric Structural Equation and Latent Variable Models, (with D.B. Dunson).
    - (2) Bayesian model averaging in structural equation models for exponential family variables, (with D.B. Dunson)

## 8. CONTRIBUTIONS IN CONFERENCES

- Presentations
  - (1) Women in decision-making positions in tourism high-technology companies: board of directors. XII International Conference Tourism and Information and Communication Technologies, Malaga (Spain) October 10<sup>th</sup>–11<sup>th</sup> 2018.
  - (2) The other side of corruption: a private viewpoint. 2018 EGPA Annual Conference, Lausanne (Switzerland) September 5<sup>th</sup>–7<sup>th</sup> 2018.
  - (3) Perception of college students about Moodle tools for skills development. Teaching and Learning Innovation Institute (TeLe(In)2), Madrid September 22<sup>nd</sup>–23<sup>th</sup>, 2016.
  - (4) Training by monitoring the news as a motivational tool in teaching. 8<sup>th</sup> World Conference on Educational Sciences, Madrid 4–6 February 2016.

- (5) Organized Crime investments in Spain: Main groups, business sectors and geographical locations. 15<sup>th</sup> Annual Conference of the ESC, Porto (Portugal) September 2<sup>nd</sup>-5<sup>th</sup> 2015.
- (6) Spain as the paradise for organised crime investments: truth or myth?. 14<sup>th</sup> Annual Conference of the ESC, Prague (Czech Republic) September 10<sup>th</sup>-13<sup>th</sup>, 2014.
- (7) Social Reuse of Confiscated Assets. SummerCamp IV Raduno dei giovani di Libera, Marsala, Italia. July 26<sup>th</sup> 2013.
- (8) Bridging the gap between teaching and breaking news: a new approach based on ESHE and ICT. World Conference on Learning, Teaching and Administration, The American University in Cairo, Egypt, October 29-31, 2010.
- (9) Validation of Computer Models with Multivariate Outputs, MUCM, University of Sheffield (UK) July 12<sup>th</sup>-14<sup>th</sup> 2010 (with G. Garcia-Donato and R. Paulo) Poster.
- (10) The *iNews* platform, December, 18<sup>th</sup> 2009, Applications of the ICT's in Education. AEMARK.
- (11) Teaching through relevant breaking news: A new tool, Coimbra (Portugal) November 18-20, 2009, XI International Symposium on Computers in Education (SIIE 09), with S. Montalvo and E. Pardo.
- (12) *iNews College*: una plataforma para la docencia basada en la actualidad relevante, June 24-25, 2009, I Encuentro de Intercambio de Experiencias en Innovación Docente en la URJC, with S. Montalvo, E. Pardo and P. Laguna.
- (13) Prior choice and efficient computational in Bayesian Structural Equation Modeling. Cambridge, UK. Oct. 30 - Nov. 3 2006. Recent Advances in Monte Carlo based Inference, with D.B. Dunson. Poster.
- (14) Bayesian Reliability Forecasting for hardware systems described through Continuous Time Markov Chain models, Benidorm, June 1-6 2006, Bayesian Statistics Valencia 8, with D. Ríos Insua and J. Cano. Poster.
- (15) Bayesian Inference and Computational issues in Structural Equation Modeling, Benidorm, June 1-6 2006, Bayesian Statistics Valencia 8, with D.B. Dunson. Poster.
- (16) Bayesian Semiparametric Structural Equation and Latent Variable Models, Hong Kong (China), June 20-24 2005. International Conference on Statistics, with D.B. Dunson.
- (17) Computer Model Validation with Functional Output, Bormio (Italy), January 12-14 2005. Second IMS-ISBA Joint Meeting, with M.J. Bayarri and J.O. Berger.
- (18) Validation with Multiple Functional Outputs, Banff (Canada), July 13-17 2004. NPCDS/SAMSI Workshop on The Design and Analysis of Computer Experiments for Complex Systems, with G. Garcia-Donato.
- (19) Approximating Complex Computer Models with Multivariate

- Outputs, Chile. May 23-27 2004. ISBA-2004, with G. Garcia-Donato. Poster.
- (20) Expert's opinion and dynamic models with applications to project costing, Puerto Rico, July 24-26, 2003, IMS-ISBA Joint Statistical Meeting, with D. Rios Insua and F. Ruggeri. Poster.
  - (21) Forecasting workload using Bayesian discrete event simulation: A case study, La Manga (Murcia), May 15-17, 2003, Bayesian Inference in Stochastic Processes (BISP03), with D. Rios Insua et al. Poster.
  - (22) Issues in Project Costing and Bidding, Tenerife (Spain), June 1-6 2002, Bayesian Statistics Valencia 7 (with D. Rios Insua and F. Ruggeri) Poster.
  - (23) Making decisions in professional contexts, Madrid, November 13-17 2000, Instituto de España (with D. Ríos Insua)
- Invited talks, discussions and seminars
    - (1) Invited: Experiences and good practices in Spain. Recovery and reuse of confiscated assets as a tool to contrast the organized crime. Committee of the Regions, European Union. Brussels (Belgium). July 7<sup>th</sup> 2016.
    - (2) Invited: Risk Management and Game Theory: a case study on cybersecurity. SAMSI Games and Decisions in Reliability and Risk Workshop. RTP, NC (USA). May 16<sup>th</sup>-20<sup>th</sup>, 2016.
    - (3) Invited: Defence, Planning and Expenditures: a worrying divergence. Spain and NATO: current risks and Defence budgets. Spanish Atlantic Treaty Association. Madrid (Spain), April 7<sup>th</sup> 2016.
    - (4) Invited: Key Findings and Recommendations of the Project UNSCR 1325 Reload. Advanced Research Workshop on *The role of women and gender policies in addressing the military conflict in Ukraine. Implementing UN Security Council Resolution 1325 and related Resolutions*. Istituto Affari Internazionali y NATO. Ukraina (Kiev), September 21<sup>st</sup> – 22<sup>nd</sup> 2015.
    - (5) Chair of session: Organized Crime. 15<sup>th</sup> Annual Conference of the ESC, Oporto (Portugal) 2–5 Septiembre 2015.
    - (6) Invited: Tackling Illegal Economy: a case study in Spain. European Parliament. Brussels (Belgium). June 30<sup>th</sup> 2015.
    - (7) Invited: Gender perspective at NATO. Workshop on Women and gender in military affairs, Georgetown University, June 8<sup>th</sup>–9<sup>th</sup> 2015.
    - (8) Invited talk: Facts and recommendations on the current status on gender balance in the NATO armed forces. NATO Military Committee. NATO-HQ. Brussels (Belgium). June 4<sup>th</sup> 2015.
    - (9) Invited talk: Briefing on the current status on gender balance in the NATO armed forces. Annual Conference of the NATO Committee on Gender Perspectives. NATO-HQ. Brussels (Belgium). June 2<sup>nd</sup> 2015.

- (10) Invited: Confiscation and social re-use: European instruments and experiences. Contromafie 2014. Rome (Italy). October 25<sup>th</sup> 2014.
- (11) Invited talk: L'esperienza Spagnola di riuso sociale dei beni confiscati. Scuola delle Scienze Giuridiche ed Economico-Sociali. Università di Palermo. Palermo (Italy) September 27<sup>th</sup> 2014.
- (12) Invited talk: Review on Confiscation in Spain. RECAST Project. Palermo (Italy). September 26<sup>th</sup> 2014.
- (13) Invited talk: Briefing on the current research on gender perspectives. Annual Conference of the NATO Committee on Gender Perspectives. NATO-HQ. Brussels (Belgium). May 15<sup>th</sup> 2014.
- (14) Invited: Research on Women, Peace and Security: State of the Art. Workshop on Women, Peace and Security, Madrid. March 27<sup>th</sup> 2014.
- (15) Invited: Towards a Protocol to Tackling Organized Crime. Legal Instruments and Technical Tools against Organized Crime. Mafia nein Danke! Berlin (Alemania). February 6<sup>th</sup> 2014.
- (16) The right to privacy within the framework of the advances in communication technologies. II Model United Nations (MUN) URJC. January 21<sup>st</sup> 2014.
- (17) Invited talk: La experiencia adquirida con el Plan Nacional sobre Drogas Español, May 30<sup>th</sup> 2013, Prefettura di Palermo, Ministero dell'Interno Italiano.
- (18) Academic Coordinator and Lecturer: Faculty Evaluation Process: evaluators and evaluated, 1<sup>st</sup> Workshop on Evaluating the Quality of Education in the Universities: Faculty Evaluation and the Impact on its Professional Careers, November 8 2012, AECID-URJC.
- (19) Organizer: *Personal data protection issues and the globalization: CLOUD COMPUTING*. BBVA - Centro de Investigación para la Gestión Tecnológica del Riesgo. February 2012.
- (20) Invited- Moderator: *Effectivity of the Centralized Economy in the Ancient Egypt*. II Workshop on Egyptology: The Economic Organization of the Ancient Egypt, March 2011, Instituto de Estudios del Antiguo Egipto - URJC.
- (21) Academic Coordinator: II Workshop on Egyptology: The Economic Organization of the Ancient Egypt, March 2011, Instituto de Estudios del Antiguo Egipto - URJC.
- (22) Invited-Moderator: *Outcomes of the Spanish Missions in Egypt*. I Workshop on Egyptology: Discovering the Ancient Egypt, February, 16<sup>th</sup> 2011, Instituto de Estudios del Antiguo Egipto - URJC.
- (23) Academic Coordinator: I Workshop on Egyptology: Discovering the Ancient Egypt, February 2011, Instituto de Estudios del Antiguo Egipto - URJC.
- (24) Invited: Technologies applied to logistics management, May 17<sup>th</sup> 2010, General Military Academy, Zaragoza, Spain.
- (25) Academic-Scientific Coordinador and Speaker: The Recovery and Management of Confiscated Assets from Organized Crime

- in the European Union. February 10<sup>th</sup> 2010. Alicante, Spain.
- (26) Invited talk: Bayesian Models in Risk Management, June 8<sup>th</sup> 2009, Dipartimento di Economia Politica, Università di Modena e Reggio Emilia, Modena, Italy.
  - (27) Invited talk: Bayesian Structural Equation Models, December 1<sup>st</sup> 2008, AMS Department. University of California at Santa Cruz, USA.
  - (28) Invited talk: Security, Defence and Industry: evolution from 1998-2007, July, 1<sup>st</sup> - 2<sup>nd</sup> 2008, Baden, Austria. Austrian Institute for European and Security Policy.
  - (29) Invited talk: Bayesian Structural Equation Modelling, September, 10<sup>th</sup> 2007, Department of Economics and Business Administration, University of Zaragoza.
  - (30) Invited talk: Teaching and research in decision engineering, May, 10<sup>th</sup>-11<sup>th</sup> 2007, V Congress of Virtual Reality Applications, Vitoria (Spain).
  - (31) Invited talk: Master in Engineering Decision Making. The key for your professional future, May 9<sup>th</sup>, 2007. II Foro de Empleo de la Universidad Rey Juan Carlos. Madrid.
  - (32) Invited talk: Bayesian Structural Equation Models, November 10<sup>th</sup> - 11<sup>th</sup> 2005. Durham, NC. Closing workshop of Latent Variables in the Social Sciences, with D.B. Dunson.
  - (33) Invited talk: Bayesian methods in bidding processes, Minneapolis, MN, August 7<sup>th</sup> - 11<sup>th</sup> 2005. Joint Statistical Meeting, with D. Rios Insua and F. Ruggeri.
  - (34) Session Chair: Random Graphs and Stochastic Computation, SAMSI, June 13<sup>th</sup>-14<sup>th</sup> 2005.
  - (35) Invited talk: Bayesian Structural Equation with Latent Variable Models, Varenna (Italy), June 4<sup>th</sup> 2005, Bayesian Inference in Stochastic Processes (BISP05), with D. Dunson.
  - (36) Invited talk: Model uncertainty in SEMs, Yearend Workshop, May 19<sup>th</sup> 2005, Durham, NC, with D.B. Dunson and B. Cai.
  - (37) Invited talk: SAVE-2, Simulator Analysis and Validation Engine, at NISS Affiliates and NISS/SAMSI University Affiliates 2005 Annual Meeting. March, 3<sup>rd</sup> 2005, Durham, NC.
  - (38) Discussion of the paper: Communication, Correlation of Beliefs and Asset price fluctuations, by H. Nakata, at FUR XI, Paris, 2004.
  - (39) Discussion: Multiple testing in data mining, 2004, Data mining and machine learning theory Midterm workshop, SAMSI.
  - (40) Seminar: Project cost forecasting: A Bayesian approach, March, 11<sup>th</sup> 2004, NISS-SAMSI, Durham, NC.
  - (41) Seminar: Dynamic Models to forecast the Spanish Electricity Market, February 3<sup>rd</sup>, 2003, *Miguel Hernández University*, Elche (Spain).
  - (42) Seminar: A Bayesian approach for project costing, May 20<sup>th</sup>, 2002, *Consiglio Nazionale delle Ricerche-IMATI*, Milan (Italy).



- (43) Seminar: Decision problems in energy solved by Decision Analysis, February 1<sup>st</sup>, 2001, *Carlos III University*, Getafe (Spain).
- (44) Seminar: Decision making problems in energy related fields, December 4<sup>th</sup>, 2000, *Consiglio Nazionale delle Ricerche-IAMI*, Milan (Italy).

## 9. SPONSORED INVESTIGATION PROJECTS

- As Principal Investigator:
  - (1) *The Private Corruption Barometer - Drafting and piloting a model for a comparative business victimization survey on private corruption in the EU*, HOME/2014/ISFP/EFCE/7222, European Commission. 30-CE-0743686/00-94. Co-PI: A. di Nicola (2016-2018).
  - (2) *PayBack: Towards a EU Data Management System for Seized Assets*, HOME/2014/ISFP/AG/EFCE/4000007221, European Commission. Co-PI: A. di Nicola (2016-2018).
  - (3) *UNSCR 1325 Reload: Research Gender National Reports, recruitment, retention and operation*. NATO-SPS. Co-PI: C. Figueroa (2014-2015).
  - (4) *Tackling Illegal Economy*, CIPS/ISEC 2012, European Commission. HOME/2012/ISEC/AG/INT/4000003868. Co-PI: D. Pati (2013-2015).
  - (5) *Organised Crime Portfolio. The investments of Criminal Organizations Operating in the European Union*, Prevention of and fight against crime 2009, European Commission. HOME/2011/ISEC/AG/FINEC/4000002220. 836.837,48€. Co-PI: E. Savona (2012-2014).
  - (6) *Advanced risk models based on Game Theory*, BBVA, S.A. and Research Center for Technological Risk Management (2012). Innovation SIC Price 2012.
  - (7) *A risk analysis model based on Game Theory*, BBVA, S.A. (2011).
  - (8) *Automatization of Finance and Forensic knowledge*, KPMG, S.A. Co-PI with P. Laguna (2010).
  - (9) *Elaboration of a white paper for ARO's*, Prevention of and fight against crime 2009, European Commission. JLS/2009/ISEC/FP/-C1-4000000065. 410.959,55 euro. Co-PI: J. Olivera (2010-2012).
  - (10) *La prueba pericial económica en el ámbito procesal español*. KPMG, S.A. Co-PI with P. Laguna (2008).
  - (11) *Cohesion on Defense Expenditures. A bridge between NATO and the EU*. URJC and Spanish MoD. (2007).
  - (12) *Dynamic linear models with applications to Defense Economics*. URJC and Spanish MoD. (2008).
- As investigator:
  - (1) *Collective action and corruption in Spain. Possibilities and limits of institutional reforms. National Program of R+D+I towards the Challenges of the Society*. MINECO-CSO2016-78258-R. PI: F. Jimenez (2016-2019).

- (2) Permanent Seminar on Entrepreneurs and leadership. CAIXA-BANK. PI: P. Laguna and F. Velasco. (2015-2016).
- (3) Institutional framework to fight corruption in Spain. Is the current repression against corruption being effective in Spain?. National Program for Scientific Research, Development and Innovation Projects. Ministry of Economy and Competitiveness. CSO2012-32661. PI: M. Villoria (2013-2016).
- (4) Volatility modelling and forecasting with option prices: the proposal of a volatility index for the Italian market. Fondazione Cassa di Risparmio di Modena, Italy. PI: S. Muzzioli (2010-2011).
- (5) Statistical analysis of computer models, Ministério da Ciência, Tecnologia e Ensino Superior. Fundação para a Ciência e a Tecnologia, Portugal. PTDC/MAT/105349/2008, PI: R. Paulo (2009-2011).
- (6) Research project to elaborate a conceptual database of economic and financial terms (renewal). Real Academia de Ciencias Económicas y Financieras. PI: C. Prado (2008)
- (7) Research project to elaborate a conceptual database of economic and financial terms. Real Academia de Ciencias Económicas y Financieras. PI: C. Prado (2007)
- (8) White Book: sector profesional de los odontólogos y estomatólogos. Ilustre Colegio de Odontólogos y Estomatólogos de la I Región. PI: L. González and P. Laguna (Sep. 2006 - Sep. 2007).
- (9) Advanced instruments for electronic participation. MEC-TSI2007-66706-C. PI: D. Rios Insua. (2007-2008).
- (10) Estimation and planning for accommodation issues in flexible manufacturing robot systems. URJC-CM-2006-CET-0371. PI: Ernesto Staffetti (2007-2008)
- (11) Methods, Techniques and Tools for Open Multi-agent Systems–Coordination, Organization. MEC, TIN2006-14630-C03-02. PI: Sascha Ossowski (2006-2009)
- (12) Agricultural Health Study in Ohio and North Carolina. PI: F. Kamel and D.B. Dunson. 2005.
- (13) Tematic Network on Probabilistic Grafical Models and Applications. MEC-Spain, TIN2004-21428-E. PI: Jose A. Lozano Alonso. 9.000€ (2005-2006).
- (14) Decision sciences research lab. Foundation DMR consulting. PI: D. Rios Insua. 2005.
- (15) EDemocracy: complex decisions support based on internet. MEC-Spain, TSI2004-06801-C04-01. PI: David Rios Insua. 120,280€ (2004-2007).
- (16) Making complex decisions based on internet. Rey Juan Carlos University, PPR-41. PI: R. Montes Diez. (2003-2004)
- (17) Tematic network on Multicriteria decisions. MCYT-Spain, BMF2002-11282-E. PI: Rafael Caballero Fernandez. 24,000€ (2003-2004).
- (18) Latent variables models in social sciences program, SAMSI. Leader: K. Bollen. (2004-2005)

- (19) Data mining and machine learning postdoctoral program, SAMSI. Leader: David Banks. (2003-2004)
- (20) *Objective Bayesian inference* book. Authors: James O. Berger, Jose Bernardo, Dongchu Sun. Development of statistical software and methods (2003-2005)
- (21) Methodologies for strategies in competitive electricity markets. CICYT, SEC2002-00112. PI: A. Meca Martínez. 77,600€ (2002-2005)
- (22) New technology and methodology developments for an electronic market. Rey Juan Carlos University. PI: David Rios Insua. 3,606.07€ (2001)
- (23) European Network for Promoting Business and Industrial Statistics - PRO-ENBIS. European Science Foundation. PI: David Rios Insua. 10,800€ (2002-2004)
- (24) A simulation-optimization system for communication network design. CAM, 07T/0005/200. PI: David Rios Insua. 12,092€ (2002)
- (25) A Decision Support System for vehicle routing and service location. MCYT, TIC 2000-1750-C06-04. PI: David Rios Insua. 47,119€ (2001-2003)
- (26) An Intelligent System for reservoir operation, CICYT (R&D National Plan). HID 98-0379-C02-02. PI: Sixto Rios Insua. 39,600€ (1998-2000)
- Consulting research projects:
  - (1) Reliability and Availability Methods in Hw/Sw systems. MTP Co. PI: J. Cano (2007-2008)
  - (2) Spatio-temporal evolution of companies in the region of Madrid. State of Madrid and URJC. PI: D. Rios Insua. 2005.
  - (3) Forecasting models in project duration. Snamprogetti-ENI, Politecnico di Milano. PI: Fabrizio Ruggeri. (2004-2005).
  - (4) Framework for Statistical Evaluation of Complex Computer Models. General Motors and NISS. PI: James O. Berger and Jerome Sacks. (2004-2005)
  - (5) Decision Support Systems and Methods. Bayesian Methods to support dynamic bid formulations by the Industry, CNR-IMATI, Snamprogetti (Italy). PI: F. Ruggeri. (2001-2003).
  - (6) A work-flow simulation and optimization system. CICYT-PROFIT-IPSA. PI: D. Rios Insua. (2000-2001)
- Educational Innovation projects:
  - (1) Project to develop a system to evaluate Higher Education in Jordan. 2012. AECID A1/037791/11. 44.000€. PI: P. Laguna
  - (2) *iNews College*: An intelligent system for automatic retrieval and classification of multilingual knowledge. 2008. PI: J. Palomo
  - (3) A teaching platform based on Web 2.0 and the relevant breaking news. 2009. PI: J. Palomo

- As Research Assistant, 1998 - 2000, Statistics and Decision Sciences group, URJC.

Worked under the supervision of Profs. D. Ríos Insua and J. Miguel Marín (URJC); and I. Olmeda (Alcala de Henares University) on their consulting research projects:

- (1) “Comparison of treatments to increase fertility of cows” with Schering Plough. PI: Juan Miguel Marín. 1999-2000.
- (2) “PLAZA: A system to forecast hotel occupancy” with Balear’s Tourism Institute. PI: Ignacio Olmeda. 1998-1999.
- (3) “A cost forecasting model for electrical distribution” with Union Fenosa. PI: David Ríos Insua. 1999-2000.
- (4) “Quality service evaluation of Bilbao Vizcaya Bank” with Coopers & Lybrand, SRL. PI: David Ríos Insua. 1998.

## 10. PATENTS

- R SAVE package. Available under License GPL-3 since 2013 at [http://cran.r-project.org/src/contrib/SAVE\\_0.9.3.7.tar.gz](http://cran.r-project.org/src/contrib/SAVE_0.9.3.7.tar.gz) (with R. Paulo and G. Garcia-Donato).
- BayRes: A Decision Support System for reservoir management. Available at <http://bayes.escet.urjc.es/bayres>. Under GPL License since 1998.
- BayTime: Web-interface application for project duration forecasting. Available at <http://bayes.escet.urjc.es/~sgrande/baytime>. Under GPL License since 2003.
- OBayes: Statistical package for Objective Bayesian Inference. Will be distributed with J.O. Berger, J.M. Bernardo and D. Sun book.
- SAVE-2: Simulator Analysis and Validation Engine. Software for Complex Computer Model Validation. Available upon request. Since 2004.

## 11. OTHER RESEARCH AND TEACHING MERITS

- POSITIVE evaluation of the Research activity by the National Commission for the Evaluation of Research Activity. One period out of one possible evaluated. POSITIVE evaluation of the Scientific Production activity by the National Agency for Quality Assessment and Accreditation 2009 and 2014.
- Moodle teaching medal obtained through the Online Advanced Management Course 2015.
- Member of 3 Thesis Committees. URJC. Nov. 2014, Dec. 2015, Jan. 2016.
- Member of the committee to screen candidates from Rey Juan Carlos University to participate in the International Program “A Magical Opportunity” from the University of California at Riverside and Wall Disney World. 2011

- Member of the committee to award the Social Advisory Board Awards to promote research among Rey Juan Carlos University students. 2012 and 2013.
- Member of the Jury of the CESGAR Prize for research on Mutual Guarantee Societies by the European Academy of Management and Business Economics. 2013
- Assessment and Evaluation Commission chairman for the Final Projects in the Degree on Business Administration and Management (English and Spanish groups), Courses 2012-2013 and 2013-2014.
- Assessment and Evaluation Commission chairman for the Final Projects in the Master on International Business Administration URJC-BEM Bourdeaux. Course 2013-2014.
- Assessment and Evaluation Commission chairman for the Final Projects in the Master on Financial Advice URJC. Course 2013-2014.
- Expert on the revision and definition of terms in the Economic and Financial Dictionary by the Royal Academy of Economic and Financial Sciences of Spain. 2008, 2009 and 2010.
- Member of the *Informal Expert Group on Confiscation and Assets Recovery* of the European Commission. Invited as (academic) expert by the *DG of Home Affairs/Internal security*, European Commission, since December 2010.
- Coordinator of the web page and the contents of the *Catedra de Investigación Financiera y Forense KPMG/URJC*.
- Director of the Educational Innovation Research Group URJC since 2008. Current project: *iCollege*.
- Expert member of the curricula evaluation committee to award the *Fundación Carolina* grants on EADA's Masters programs on: Human Resources and International MBA. Years 2008, 2009, 2010.
- Developer of the eLearning platform for the *I International Practitioners Course in Asset Recovery and Financial Investigation*, CEART Project URJC. 2011.
- Developer of the on-line course in Sanitary Transportation Management, URJC. 2008.
- Developer of the on-line module on Decision Analysis used in the Masters program in Engineering Decision Making, Rey Juan Carlos University. 2006
- Coach of the two teams that Rey Juan Carlos University presented at the 2001 ACM Southwestern Europe Programming Contest. Porto, 2001.
- System administrator of Statistics and Decision Science's Labs, Rey Juan Carlos University. (1997-2004, 2005-2006)
- Webmaster of the following web site:
  - <http://catedrainvestigacionfinanciera.com> Since 2009.
  - <http://vangogh.escet.urjc.es/~osydi> Since 2008.
  - <http://www.diccionarioracef.es/> Since 2008.

- <http://vangogh.escet.urjc.es/~jesus> Since 2000.
- <http://bayes.escet.urjc.es> (1997-2004)
- Member of the Spanish Statistical and Operations Research Society; the International Society for Bayesian Analysis; the Association of Computing Machinery; and the Institute for Operations Research and the Management Sciences; European Academy of Management and Business Economics.
- **ACTIVITY AS ADVISOR**
  - **Ph.D. students**
    - (1) Federico Yaniz Velasco “The European Defense: Alliances, Defense Capabilities and the Defense Industry”. May, 14<sup>th</sup> 2013. *Summa cum laude*. Currently Secretary General of the Spanish Atlantic Treaty Association.
    - (2) Sonia López (Co-director) “Comparative Analysis of Socially Responsible Assets versus Traditional Assets”. November, 19<sup>th</sup> 2010. *Summa cum laude*. Currently Assistant Professor at URJC.
    - (3) Ana Vico (Co-director) “Profitability of the Investments in Art; a study of the appropriate markets and methods to sell goods”. February, 15<sup>th</sup> 2010. *Summa cum laude*. Currently Assistant Professor at URJC.
  - **Master thesis**
    - (1) “Blockchain and new business models”  
Verónica Oliver Muros: *A*. (Jun 18)
    - (2) “The Smart Contracts and their impact in trading”  
Ana María Fernández de Vega: *A*. (Jun 17)
    - (3) “Dissemination of the culture of the fight against Organized Crime”  
Miriam Blanco Garcia: *A*. (Jun 17)
    - (4) “Transportation and geolocalization”  
Álvaro Mateo y Milán: *A*. (May 16)
    - (5) “Analysis of the Illegal Markets in Spain”  
Naiara Rubio Revilla: *B+*. (Jun 15)
    - (6) “Data journalism: Organized Crime in Spain”  
Virginia Díaz Pacheco: *B+*. (Jun 15)
    - (7) “A comparative analysis on Cybercrime and Cryptocurrencies”  
Edgar López Sabio: *A*. (Feb 15)
    - (8) “Fraud, Organized Crime and Cybercrime: a case study in Spain”  
Sara López Labrador: *A*. (Oct 14)
    - (9) “Fighting against Organized Crime. Management of confiscated assets”  
Silvia Martín Rodríguez: *A*. (Sep 14)
    - (10) “Cybercrime”  
Álvaro García Díez: *B+*. (Jul 14)

- (11) “Analysis of the Organized Crime Investments”  
Nuria Ruíz Cobo: *A*. (Jun 14)
- (12) “Entrepreneurism: an online newspaper based on user defined criteria”  
Susana Rueda Monserrat: *B+*. (Oct 13)
- (13) “*iNewCloud*: Interfaces system for iNewsCollege Platform”  
Raquel Plaza Guijarro: *A*. (Jun 13)
- (14) “*iNewsCollege*: A teaching platform based on Web 2.0 and relevant news”  
Aránzazu Pardo Juarez: *A*. (Jun 12)
- (15) “New methods to evaluate defence capabilities”  
Federico Yaniz Velasco: *A*. (jul 10)
- (16) “Platform of Multilingual Knowledge towards Education”  
Francisco Javier Romo Garcia: *A*. (Jun 10)
- (17) “Automatically classified Multilingual News Portal for Higher Education”  
Miguel Angel Blazquez Lopez: *A*. (Jun09)
- (18) “PREDIBOLSA: stock market forecasting with Dynamic Linear Models”  
Saúl Grande Gallardo: *A*. (Jun 03)

– **B.Sc. Thesis**

- (1) “Constructing a Data Mart with SAS”  
Bernardo Cascales Monedero: *B* (Sep 01)
- (2) “A Decision Support System for buying new and used cars (part I)”  
Susana Rodriguez Alonso: *A* (Sep 01)
- (3) “A Decision Support System for buying new and used cars (part II)”  
Ana M<sup>a</sup> García Márquez del Prado: *A* (Sep 01)
- (4) “Models to evaluate customers’ satisfaction”  
Rodrigo Aguirre Rincón: *A* (Sep 01)
- (5) “A system for intelligent buying”  
Enrique Estévez Cerezo: *A* (Sep 01)
- (6) “A simulation and optimization model of a workflow line”  
Sergio Garzón Fernández: *A* (Jun 02)
- (7) “Modules in R for Bayesian Inference”  
Alberto Contreras Herrera: *B* (Sep 02)
- (8) “Design and Implementation of a web page for *Towards Electronic Democracy* project”  
Ricardo Huerta Gallego: *B* (Sep 02)
- (9) “Towards Electronic Democracy”  
Carlos Formoso Ruberte: *B* (Feb 03)
- (10) “Simulation of the restaurant area in the campus (part I): Experimental design and model implementation”  
Jose A. Rdguez. Viñas: *A* (Jun 03)
- (11) “Simulation of the restaurant area in the campus (part II): Analysis of results”  
Luis A. Redondo Aguilar: *B* (Jun 03)

- (12) “An intelligent system for reservoir operations: Optimization module. An object oriented approach.”  
Miguel A. Gonzalez Rodriguez: *B* (Sep 04)
- (13) “A forecasting module for a Decision Support System in reservoir management”  
Francisco Pareja Leon. (Feb 05)
- (14) “A preference module for a Decision Support System in reservoir management”  
Belen Barroso Feito. (Sep 06)

## 12. GRANTS, AIDS AND REWARDS

- Harvard 2011 and 2012 grants to participate at the *International Academic Program* simposium. Harvard University.
- **Finalist of the Leonard J. Savage Dissertation Award 2004. Honourable Mention Award for Applications.**
- **European Network for Business and Industrial Statistics (ENBIS) 2005 Young Statistician Award.**
- On combining experts’ opinions in negotiation processes. EU Science Foundation **2006 exchange grant** under the program Towards Electronic Democracy (TED): internet based complex decision support program.
- Quantitative Methods in the Social Sciences, **2006 Young research fellow**. EU Science Foundation.
- June 1-6, 2006. Valencia/ISBA eighth world meeting on Bayesian statistics. Grant for young researchers.
- January 12-14, 2005. Second IMS-ISBA Joint Meeting. Italy. Grant for young researchers.
- October 6-14, 2005. Quantitative Methods in the Social Sciences, EU Science Foundation. Junior research fellow.
- May 23-27, 2004. International Society for Bayesian Analysis World Meeting. Chile. Grant for young researchers.
- 2003 – 2005. US National Science Foundation - Duke University.
  - Data mining and machine learning, postdoctoral fellow.
  - Latent variable models in social sciences, postdoctoral fellow.
- 2002. Rey Juan Carlos University. Visit abroad grant.
- 2001 – 2003. Ministry of University, Research and Technology, Italy. Research fellow.
- October 7-13, 2001. ECAS course in Bayesian Statistics and Financial Econometrics, Lugano, Switzerland. Student financial support.
- March 26-30, 2001, IDA Spring School 2001, European School on Intelligent Data Analysis. Palermo (Italy). Student financial support.
- 2000, **Extraordinary mention**, B.Sc. in Management Computer Science. Rey Juan Carlos University.

## 13. COURSES AND SEMINARS ATTENDED



- (1) XXXVIII National Defense Course, Higher National Defense Studies, Spanish Ministry of Defense. January – April 2018.
- (2) Advanced Course on didactical use of Moodle (online). URJC. June 15<sup>th</sup>-29<sup>th</sup> 2015
- (3) Tax evasion and financial criminality in Europe. Tackling Illegal Economy. Paris (France), July 9<sup>th</sup>-10<sup>th</sup> 2014.
- (4) Course on didactical use of Moodle. URJC. June 9<sup>th</sup> 2014
- (5) Efficient management of assets confiscated from drug trafficking. September 12<sup>th</sup>-13<sup>th</sup> 2013. Government Delegation for the National Plan on Drugs. Spanish Ministry of Health, Social Services and Equality.
- (6) ECOLEF Final Conference, The Economic and Legal Effectiveness of Anti Money Laundering and Combating Terrorist Financing Policy. Amsterdam (The Netherlands), November 29<sup>th</sup>-30<sup>th</sup> 2012.
- (7) Education and Technology, Harvard University, Cambridge (USA), June 18<sup>th</sup>-22<sup>nd</sup> 2012.
- (8) Management Research in a Global and Changing Environment, Harvard University, Cambridge (USA), June 13<sup>th</sup>-17<sup>th</sup> 2011.
- (9) International Workshop on Products, URJC, Madrid, November 22<sup>th</sup> 2010.
- (10) Community Manager ÀSabes lo que es?, Madrid, November, 15<sup>th</sup>-16<sup>th</sup> 2010.
- (11) Defense and Security in the current economic scenario. XIV Workshop on Technologies for Defense and Security, Fundacion Circulo de Tecnologias para la Defensa y la Seguridad. Madrid, Spain, October 26<sup>th</sup>-27<sup>th</sup>, 2010.
- (12) Course on Assessment, Follow-up and Accreditation of the university programmes: past, present and future, ANECA. Summer Courses of UIMP, Santander, Spain, July 8<sup>th</sup> – 9<sup>th</sup>, 2010.
- (13) eMadrid Workshop on eLearning, UC3M, Madrid, 30 Junio – 1 Julio 2010.
- (14) “Bologna Seminar: Doctoral Studies in the European Higher Education Area”, Warsaw, June 17<sup>th</sup>-18<sup>th</sup> 2010.
- (15) Course on Corporate Fusions and Acquisitions, Madrid, May, 12<sup>th</sup> 2008.
- (16) Bayesian Inference in Econometrics and Statistics, Chicago, IL, May 2<sup>nd</sup> – 3<sup>rd</sup>, 2008.
- (17) 37<sup>th</sup> annual Conference of Commandants, “Comprehensive Approach to Security—the Role of Educators”, Toledo, Spain, April 20<sup>th</sup> - 23<sup>th</sup>, 2008.
- (18) Collecting goods investment. International Workshop on Collecting as Investment, Madrid, April, 14<sup>th</sup> – 16<sup>th</sup> 2008.
- (19) Web 2.0 ÀSabes lo que es?, Madrid, March, 5<sup>th</sup> 2008.
- (20) Public Procurement Policy Seminar on European Defence Procurement, Maastricht, November 19<sup>th</sup> – 20<sup>th</sup> 2007.

- (21) 2<sup>nd</sup> International Conference on the Mediterranean Region, “Security, Stability and Cooperation in the Mediterranean Region”, Roma, November 20<sup>th</sup> – 22<sup>th</sup> 2007.
- (22) “50 years after the Rome Treaty. State and Prospects of the European Defence”, Roma, November 15<sup>th</sup> 2007.
- (23) “Theory and Practice in the Analysis of Longitudinal Data”, Universiteit Hasselt, Hasselt, Belgium, October 6<sup>th</sup> - 14<sup>th</sup> 2005.
- (24) “Course on Generalized Latent Variable Models in the Social Sciences”, SAMSI, Fall 2004.
- (25) “An overview of Latent Variables Models in the Social Sciences”, graduate course, SAMSI, September 2004.
- (26) “An introduction to e-learning: WebCT”, 2004.
- (27) “Masters Course on Energy Management”, IIR, Madrid (Spain), February, 25–26, 2003.
- (28) “Internet-based Multi-Criteria Decision Support”, as part of the Towards Electronic Democracy European program, May 22<sup>th</sup> - 24<sup>th</sup>, 2003. Madrid.
- (29) “Auctions on Electric Markets”, II Meeting of the Game Theory Spanish Group, Madrid, April 26-27, 2002.
- (30) “Microstrategy 7, Server and Web”, Madrid, September 17-18, 2001.
- (31) “Microstrategy 7, Data Modeling and Agent”, Madrid, September 10-14, 2001.
- (32) “EMA’01: Statistics in genetics”, Cadiz (Spain), Nov. 2001.
- (33) “EMA’01: An experimental approach for data analysis”, Cadiz (Spain), Nov. 2001.
- (34) “ECAS 2001: Bayesian Statistics and Financial Econometrics”, Lugano, Switzerland, October 7-13, 2001.
- (35) “Reasoning under Partial Knowledge 2001”, Foligno (Italy), Summer School, Aug. 27 – Sep. 6, 2001.
- (36) “Survival analysis and reliability”, graduate course at Università degli Studi di Pavia (Italy).2001.
- (37) “II International Workshop Distributed Statistical Computing (DSC 2001)”, Vienna, March, 15–17, 2001.
- (38) “IDA Spring School 2001, European School on Intelligent Data Analysis”, Palermo, March, 26–30 2001. A-ranked according to ERA.
- (39) “Second Workshop on Bayesian Inference in Stochastic Processes”, Varenna (Italy), May 31 – June 2, 2001.
- (40) “Communications and information network in current corporations”, Masters course at Carlos III University, April 2000.
- (41) “Stock exchange and other financial markets”, Madrid Stock Exchange, May 1997.
- (42) “Marketing Strategies in present-day companies”, Complutense of Madrid University (C.E.S.S.J. Ramón Carande) December 1994.

#### 14. PROFESSIONAL ACTIVITIES

At companies:

- (1) Transbra, Co., Decision Systems Advisor. Main activity: developed a system to optimize schedules of public transportation. Specifically, buses located by GPS. (1999 - Oct. 2000).
- (2) Martín, Co., at running economics analysis department (1998-1999). Activities: Data analysis, running economics analysis.
- (3) Lecturer at Centro de Estudios Pozuelo de Alarcón of the subjects: Statistics, Accounting, Economics and Mathematics (1997-1998).
- (4) GRUPO RUIZ, Co., at finance department, (1996). Activities: Cash-management, Balance analysis, Risk measurements.

#### 15. OTHER MERITS

- Advanced knowledge in:
  - Programming paradigms: Structured (C,Python,Pascal), Object Oriented (C++,Java,ADA95), Visual (VBasic,Visual C++, Borland C++) and Functional.
  - Accounting packages.
  - Network management.
  - Relational Data Bases: Oracle, Informix, MySQL.
  - DSS MicroStrategy: Data Warehouse.
  - Operating Systems: UNIX, Linux, Windows, Mac-OS.
  - Statistical Software: WQSB, R, S-plus, SPSS, MINITAB, GAUSS, WinBugs.
- Languages: Spanish (native speaker), English, Italian.

Madrid, November 7, 2018