

CURRICULUM VITAE

Personal Data:

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| <i>Name:</i> | David-Valentín Conesa Guillén. |
| <i>Place and Date of Birth:</i> | Valencia (Spain), Nov. 6th, 1968. |
| <i>e-mail:</i> | David.V.Conesa@uv.es |
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Current Status:

- Director of the Master in Biostatistics, Universitat de València.
- Associate Editor SORT (Statistics and Operations Research Transactions).
- Associate Editor TEST (International journal of statistics and probability, sponsored by the Spanish Society of Statistics and Operations Research).

Degrees (education background):

- (1985) First Certificate in English. University of Cambridge (UK).
- (1991) B.A. in Mathematics. Speciality on Statistics and Operations Research. Universitat de València (Spain).
- (2000) Ph. D. Universitat de València. Thesis title: “Inference and Prediction in bulk arrival and bulk service queues”. Advisor: Carmen Armero.

Employment background:

- (1993-2002) Assistant Lecturer (profesor asociado) at the Department of Statistics and Operations Research. Universitat de València.
- (2002-) Permanent Lecturer (profesor titular de universidad) at the Department of Statistics and Operations Research. Universitat de València.

Other positions held:

- Member on 30 Research Projects.
- Participant on 21 Contracts with firms and governmental institutions.
- Fall 1998: Visiting Scholar at Duke University (USA).
- Fall 2004: Visiting Lecturer at Lancaster University (UK).
- Spring 2010: Research Fellow in the research program Space-Time Analysis for Environmental Mapping, Epidemiology and Climate Change held at SAMSI (USA).

Interests:

- Bayesian Statistical Analysis of Queues, Inventories and Stochastic Processes in general,
- Analysis of waiting lists for transplants,
- Sensitivity analysis of efficiency and productivity indices,

- Bayesian Spatio-Temporal models for determining species distribution,
- Statistical methods for the early detection of epidemics.

Professional societies:

- President of the Spanish Region of the International Biometric Society (2014-2015).
- Vicepresident of the Spanish Region of the International Biometric Society (2013 and 2016).
- Member of the Executive Board of the Spanish Region of the International Biometric Society (since 2010).
- Member of the International Biometric Society Council (July 2013-June 2015).
- Member of Spanish Society of Statistics and Operations Research (since 1994).
- Member of International Society for Bayesian Analysis (since 1994).
- Member of International Biometric Society (since 1995).

Articles submitted:

- I. Paradinas, D. Conesa, A. López-Quílez, J. M. Bellido. Spatio-Temporal model structures with shared components for semi-continuous species distribution modelling.
- R. Vilela, D. Conesa, J.L. del Rio, A. López-Quílez, J. Portela, J.M. Bellido. Integrating fishing spatial patterns and strategies to improve High Seas fisheries management.
- J. Carbonell-Caballero, A. Amadoz, R. Alonso, M.R. Hidalgo, C. Çubuk, D. Conesa, A. López-Quílez, J. Dopazo. Reference genome assessment from a population scale perspective: an accurate profile of variability and noise.
- M.G. Pennino, I. Paradinas, J.B. Illian, F. Muñoz, J.M. Bellido, Antonio López-Quílez, D. Conesa. Accounting for preferential sampling in species distribution models.
- X. Barber, D. Conesa, A. López-Quílez, J. Morales. Multivariate Bioclimatic indices modelling: A coregionalised approach.
- M. Marco, A. López-Quílez, D. Conesa, E. Gracia, M. Lila. Spatio-temporal analysis of suicide-related emergency calls.
- F. Ródenas-Rigla, D. Conesa-Guillén, A. López-Quílez, J. Garcés-Ferrer. A binary classifier system for decision-making in the management of chronic patients.
- D. Conesa, P. Espinosa, A. Forte, E. Tortosa-Ausina. Un análisis de los procesos de localización geográfica de oficinas bancarias en España: 1999-2011

Articles accepted for publication:

- X. Barber, J. Morales, A. López-Quílez, D. Conesa, A. Martínez-Mayoral and A. Barber. Bayesian hierarchical models for analysing the spatial distribution of bioclimatic indices. *SORT, Statistics and Operations Research Transactions*, **in press**.
- I. Paradinas, M. G. Pennino, M. Marín, A. López-Quílez, J. M. Bellido, D. Conesa. Modelling spatially sampled proportion processes. *RevStat*, **in press**.

Articles published:

- J. Martínez-Minaya, D. Conesa, A. López-Quílez and A. Vicent (2017). “Response to the letter on “Climatic distribution of citrus black spot caused by *Phyllosticta citricarpa*. A historical analysis of disease spread in South Africa” by Fourie et al. (2017)”. *European Journal of Plant Pathology*, **148** 503–508.
- J. Martínez-Minaya, A. López-Quílez, D. Conesa, Jose Luis Mira y A. Vicent (2017). Un sistema predictivo para el control de la mancha foliar del caqui causada por la *Mycosphaella nawae*. *Phytoma España*, **276**, 20–23. (In Spanish).
- M. G. Pennino, J.M. Bellido, D. Conesa, M. Coll and E. Tortosa-Ausina (2017). The analysis of convergence in ecological indicators: an application to the Mediterranean fisheries. *Ecological Indicators*, **78**, 449–457.
- R. Gómez-Calvet, D. Conesa, A. Gómez-Calvet and Emili Tortosa-Ausina (2016). On the dynamics of the environmental performance in the European Union. *Computers and Operations Research*, **66**, 336–350.
- X. Barber, D. Conesa, S. Lladosa and A. López-Quílez (2016). Modelling the presence of disease under spatial misalignment using Bayesian latent Gaussian models. *Geospatial Health*, **11**: 469.
- A. Biggeri, D. Catelan, D. Conesa, and P. Vounatsou (2016). Spatio-temporal statistics: applications in epidemiology, veterinary medicine and ecology. *Geospatial Health*, **11**: 415.
- M. G. Pennino, D. Conesa, A. López-Quílez, F. Muñoz, A. Fernández and J. M. Bellido (2016). Fishery dependent and independent data lead to consistent estimations of essential habitats. *ICES Journal of Marine Science*, **73** (9), 2302–2310.
- I. Paradinas, M. Marín, M. G. Pennino, A. López-Quílez, D. Conesa, D. Barreda, M. González, J. M. Bellido (2016). Identifying the best fishing-suitable areas under the new European discard ban. *ICES Journal of Marine Science*, **73** (10), 2479–2487, **selected as Editor’s choice**.
- L. Alamá, D. Conesa, A. Forte, E. Tortosa-Ausina (2015). The geography of Spanish bank branches. *Journal of Applied Statistics*, **42**(4): 722–744.
- D. Conesa, M.A. Martínez-Beneito, R. Amorós and A. López-Quílez (2015). Bayesian Hierarchical Poisson Models with a hidden Markov structure for the detection of influenza epidemic outbreaks. *Statistical Methods in Medical Research*, **24**(2): 206–223.
- R. Amorós, D. Conesa, A. López-Quílez and M.A. Martínez-Beneito (2015). Statistical methods for detecting the onset of influenza outbreaks: a review. *RevStat*, **13**(1): 41–62.
- I. Paradinas, M. G. Pennino, F. Muñoz, D. Conesa, A. M. Fernández, A. López-Quílez, J. M. Bellido (2015). A Bayesian approach to identifying fish nurseries. *Marine Ecology Progress Series*, **528**: 245–255.
- J. Martínez-Minaya, A. Vicent, D. Conesa y A. López-Quílez (2015). Factores climáticos asociados con la mancha negra de los cítricos causada por *Phyllosticta citricarpa* en Sudáfrica. *Phytoma España*, **270**, 36–40. (In Spanish).

- J. Martínez-Minaya, D. Conesa, A. López-Quílez and A. Vicent (2015). Climatic distribution of citrus black spot caused by *Phyllosticta citricarpa*. A historical analysis of disease spread in South Africa. *European Journal of Plant Pathology*, **143**, 69–83.
- M. G. Pennino, F. Muñoz, D. Conesa, A. López-Quílez, J. M. Bellido (2014). Bayesian spatio-temporal discard model in a demersal trawl fishery. *Journal of Sea Research*, **90**: 44–53.
- R. Gómez-Calvet, D. Conesa, A. Gómez-Calvet and Emili Tortosa-Ausina (2014). Energy efficiency in the European Union: What can be learned from the joint application of directional distance functions and slacks-based measures? *Applied Energy*, **132**: 137–154.
- A. Martínez-Abraín, D. Conesa and A. Forte (2014). Subjectivism is an unavoidable feature of ecological statistics. *Animal Biodiversity and Conservation*, **37**(2): 141–143.
- D. Conesa and F. Pineda (2014). Entrevista a Alan Gelfand: “A la gente le resulta muy difícil entender las estadísticas”. *Mètode*, **83**: 93–97. (In Spanish).
- M. González-Warleta, S. Lladosa, J. A. Castro-Hermida, A. M. Martínez-Ibeas, D. Conesa, F. Muñoz, A. López-Quílez, Y. Manga-González, M. Mezo (2013). Bovine paramphistomosis in Galicia (Spain): Prevalence, intensity, aetiology and geospatial distribution of the infection. *Veterinary Parasitology*, **191**(3-4): 252-263.
- F. Muñoz, M. G. Pennino, D. Conesa, A. López-Quílez and J. M. Bellido (2013). Estimation and prediction of the spatial occurrence of fish species using Bayesian latent Gaussian models. *Stochastic Environmental Research and Risk Assessment*, **27**: 1171-1180.
- M. G. Pennino, F. Muñoz, D. Conesa, A. López-Quílez, J. M. Bellido. (2013) Modelling sensitive elasmobranch habitats. *Journal of Sea Research*, **83**: 209–218.
- E. Tortosa, C. Armero, D. Conesa and E. Grifell (2012). Bootstrapping profit change: An application to Spanish banks. *Computers and Operations Research*, **39**(8): 1857–1871.
- M^a. G. Pennino, J. M^a. Bellido, D. Conesa and A. López-Quílez (2011). Trophic indicators to measure the impact of fishing on an exploited ecosystem, *Animal Biodiversity and Conservation*, **34**(1): 123-131.
- C. Sánchez-Monzó, O. Vaamonde-Velazco, D. Conesa-Guillén, F. Gomar-Sancho (2010). Factores de riesgo en las fracturas de extremidad proximal de húmero. *Revista Española de Cirugía Osteoarticular*, **45**(244), 119–129. (In Spanish).
- D. Conesa, A. López-Quílez, M. A. Martínez-Beneito, M. T. Miralles and F. Verdejo (2009). FluDetWeb: an interactive web-based system for the early detection of the onset of influenza epidemics. *BMC Medical Informatics and Decision Making*, **9**: 36.
- E. Tortosa, E. Grifell, C. Armero and D. Conesa (2008). Sensitivity analysis of efficiency and Malmquist productivity indices: an application to Spanish saving banks. *European Journal of Operational Research*, **148**(3), 1062–1084.
- A. Martínez-Abraín, D. Conesa and D. Oro (2008). Herramientas estadísticas para resolver contrastes de hipótesis con contenido biológico: su uso en Ecología del siglo XXI. *Acta Zoológica Mexicana (nueva serie)*, **24**(2), 177–196. (In Spanish).
- M. A. Martínez-Beneito, D. Conesa, A. López-Quílez and A. López-Maside (2008).

Bayesian Markov switching models for the early detection of influenza epidemics. *Statistics in Medicine*, **27**(22), 4455–4468.

– A. Martínez-Abraín, D. Oro, J. Jiménez and D. Conesa (2008). The compromise between seabird enjoyment and disturbance: The role of observed and observers. *Environmental Conservation*, **35**(2), 104–108.

– C. Armero and D. Conesa (2006). Bayesian hierarchical models in manufacturing bulk queues. *Journal of Statistical Planning and Inference*, **136** (2), 335 – 354.

– J.J. Abellán, C. Armero, D. Conesa, J. Pérez-Panadés, O. Zurriaga, M.A. Martínez-Beneito, M.J. García-Blasco and H. Vanaclocha (2006). Analysis of the Renal Transplant Waiting List in the País Valencià. *Statistics in Medicine*, **25**(2), 345–358.

– O. Costa and D. Conesa (2006). Analysis of the behaviour of a post office. *Bulletin of the Spanish Statistical and Operations Research Society*, **22**(3), 18 – 23. (In Spanish).

– C. Armero and D. Conesa (2004). Statistical performance of a multiclass bulk production queueing system. *European Journal of Operational Research*, **158**, 649 – 661.

– D. Conesa, A. López and R. López (2004). ¿Tienen todos los titulados las mismas oportunidades en las convocatorias de becas de investigación? *Revista de la Facultat de Matemàtiques de la Universitat de València (Journal of the Faculty of Mathematics of the University of Valencia)*, **2** (1), 115 – 130. (In Spanish).

– J. J. Abellán, C. Armero, D. Conesa, J. Pérez-Panadés, M. A. Martínez-Beneito, Ó. Zurriaga, M.J. García-Blasco and H. Vanaclocha (2004). Predicting the behaviour of the renal transplant waiting list in the País Valencià (Spain) using simulation modeling, in R. G. Ingalls, M. D. Rossetti, J. S. Smith and B. A. Peters editors, *Proceedings of the 2004 Winter Simulation Conference*, pages 1969-1974.

– A. Martínez-Abraín, D. Oro, M.G. Forero and D. Conesa (2003). Temporal and spatial local population dynamics in a long-lived seabird. *Population Ecology*, **45**, 133 – 139.

– J. Pérez-Panadés, C. Armero, J.J. Abellán, D. Conesa, M.J. García, M.A. Martínez-Beneito, H. Vanaclocha and O. Zurriaga (2001). An application of queueing theory to the waiting list for renal transplants in the Comunitat Valenciana (Spain). *Bulletin of the Spanish Statistical and Operations Research Society*, **17**(3), 2 – 6. (In Spanish).

– C. Armero and D. Conesa (2000). Prediction in Markovian bulk arrival queues. *Queueing Systems*, **34**, 327 – 350.

– C. Armero and D. Conesa (1998). Inference and Prediction in bulk arrival queues and queues with service in stages. *Applied Stochastic Models and Data Analysis* **14**, 35 – 46.

Thesis supervision:

– Roberto Gómez-Calvet: Energy efficiency and environmental performance in the European Union. Completed in 2013. Jointly supervised with E. Tortosa-Ausina.

– Maria Grazia Pennino: *Implementing Ecosystem Approach to Fisheries Management: Advances and New tools*. Completed in 2013. Jointly supervised with A. López-Quílez

and J. M. Bellido.

- Raúl Vilela Pérez: *Análisis espacio-temporal de un programa de observadores pesqueros: El caso de la flota española en las aguas internacionales de la plataforma patagónica*. Completed in 2013. Jointly supervised with A. López-Quílez and J. M. Bellido.
- Vicent Sanchis Berenguer. *Factores determinantes de la salida a bolsa de una compañía. El caso español*. Completed in 2016. Jointly supervised with J. E. Farinós and F. Pardo.
- Iosu Paradinas Aranjuelo: *Species distribution modelling in fisheries science*. Completed in 2017. Jointly supervised with A. López-Quílez and J. M. Bellido.
- Rubén Amorós Salvador: *Bayesian temporal and spatio-temporal Markov switching models for the detection of influenza outbreaks*. To be completed in 2017. Jointly supervised with M.A. Martínez-Beneito.
- José Carbonell Caballero: *Diseño e implementación de modelos estadísticos en el análisis de datos genómicos en cáncer*. To be completed in 2019. Jointly supervised with A. López-Quílez.
- Joaquín Martínez Minaya. To be completed in 2019. Jointly supervised with A. Vicent.
- Blanca Sarzo Carles. To be completed in 2019. Jointly supervised with C. Armero.
- Marcial Marín Villora. To be completed in 2019. Jointly supervised with J. Monrós.

Undergraduate courses taught:

- Mathematics for Biological Science.
- Biostatistics for Biological Science.
- Design and analysis of experiments.
- Mathematical Statistics.
- Statistical Modelling.
- Supervisor of professional practices of students.

Graduate courses taught in Erasmus exchange (2012-2016):

- Bayesian Generalized Linear Models.
- Bayesian Statistics.
- Integrated Laplace Nested Approximation.

Graduate courses taught:

- Computation and programming with R.
- Generalized Linear Models.
- Generalized Additive Models.
- Supervisor of professional practices of graduate students.
- Advisor of Msc Thesis.