

**Part A. PERSONAL INFORMATION**

<b>CVA date</b>	2/04/2025
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First and Family name	M. Dolores Jiménez Gamero		
Social Security, Passport, ID number		age	
Researcher numbers	Researcher ID	K-2305-2014	
	Orcid code	0000-0002-8823-3292	
	Scopus Author ID	6602294886	

**A.1. Current position**

Name of University/Institution	Universidad de Sevilla		
Department	Dpto. de Estadística e Investigación Operativa		
Address	Avda. Reina Mercedes s.n, 41012 Sevilla, Spain		
Phone number		E-mail	
Current position	Full professor	From	22/11/2018
UNESCO nomenclature	1209.03, 1209.06, 1209.13		
Keywords	Bootstrap, goodness-of-fit tests, specification tests, homogeneity tests, influence análisis, calculus with fuzzy numbers		

**A.2. Education**

Degree	University	Year
BSc in Mathematics	Universidad de Sevilla	1989
PhD in Mathematics	Universidad de Sevilla	1994

**A.3. JCR articles, h Index, thesis supervised**

- Positive evaluation of six-years research from the National Committee for the Assessment of the Research Action (CNEAI): 4, last one 2016-2021
- Supervised thesis: 3
- Cites: 1399 (source Scopus), 1942 (source Google scholar)
- Average number of cites per year from 2017: 104.6 (source Scopus), 141.6 (source Google scholar)
- JCR index journal articles: 101
- JCR index journal articles 2020-: 25
- h index: 18 (source Scopus), 22 (source Google scholar)
- hi10 index: 36 (source Scopus), 47 (source Google scholar)
- The publications of the last years focus mainly on various testing problems (goodness-of-fit, homogeneity of populations) in the setting where small samples of a large number of populations are available, and on solving certain goodness-of-fit problems.

**Part B. CV SUMMARY** (*maximum 3500 characters, including spaces*)

I am a member of the Dpto. de Estadística e Investigación Operativa of the Universidad de Sevilla (US) since October-1989; in March-1996 I became a Profesor Titular de Escuela Universitaria; in February-2000 I became a Profesor Titular de Universidad (Associate Professor); in November-2018 I became a Catedrática de Universidad (Full Professor).

In November-1994 I got the PhD degree in Mathematics at the US. I started to publish in journals indexed in JCR in 1998, and since then I publish regularly. The articles are co-authored by professors from my department, from other Spanish universities and foreign universities. My lines of research are: bootstrap method, on which my doctoral thesis was based, goodness of fit, homogeneity of populations, specification tests, influence analysis

and calculus with fuzzy numbers On calculus for fuzzy data I co-advised, together with Professor M.A. Rojas-Medar (U. Tarapacá, Chile), the doctoral thesis of Y. Chalco-Cano (U. Tarapacá, Chile), defended in 2004, with whom I have published 9 articles, 7 of them in T1; on goodness of fit I supervised the doctoral thesis of F. Novoa Muñoz (U. Bío-Bío, Chile), defended in 2013, from which emanated 2 papers; on contrasts in nonparametric regression models I have supervised the doctoral thesis of G.I. Rivas Martínez (U. Nacional de Paraguay), defended in 2017, from which we published three articles. I have also published several book chapters.

I have participated (as a speaker and in the organization) in numerous national congresses and international conferences, where I have given 3 plenary conferences, organized 16 sessions and I have participated by invitation on more than 30 occasions. I have given various seminars both in Spanish (U. Vigo, U. Atónoma de Barcelona, U. Carlos III) and foreign universities (U. Buenos Aires, U. catholique de Louvain, U. Concepción, U. Antofagasta, U. Southampton, U Lorraine).

My research activity has been favored by my participation in 14 competitive research projects, one of them as chief investigator.

In addition to the theoretical contributions mentioned above, I have collaborated in works of Medicine, as a statistical advisor, published in specialized journals. I have participated in contracts with companies and public administrations. I have taught various subjects (from undergraduate / graduate studies in Computer Science, Mathematics, Biology and Statistics). I have directed final degree projects and I have been tutor of internships in companies. I have participated in several teaching innovation projects at my university. Since I obtained my PhD degree, I have taught in doctoral / master's courses in the US, both aimed at mathematics students (theoretical), as well as others aimed at chemists, biologists, etc. (applied). I have also taught master's degrees at the universities: Pablo de Olavide (Spain), of Antofagasta (Chile) and of Buenos Aires (Argentina).

I have been Secretary of the Faculty of Mathematics of the US from March-2000 to July-2001.

## **Part C. RELEVANT MERITS**

### **C.1. Publications: selected papers 2020-**

- Batsidis, B. Milosevic, M.D. Jiménez-Gamero (2025) Goodness-of-fit tests for Generalized Poisson distributions. *Statistics* 59(2), 276–304.  
<https://doi.org/10.1080/02331888.2024.2433167>
- MD M.D. Jiménez-Gamero, JC Pardo-Fernández (2024) Estimating the shape functions. *Statistical Papers* 65, 1575–1611.  
<https://doi.org/10.1007/s00362-023-01456-7>
- S.G. Meintanis, B. Milosevic, M.D. Jiménez-Gamero (2024) Goodness-of-fit tests based on the mincharacteristic function *Comput. Statist. Data Anal.*, vol. 197, September 2024, 107988.  
<https://doi.org/10.1016/j.csda.2024.107988>
- M.V. Alba-Fernández, M.D. Jiménez-Gamero, F. Jiménez-Jiménez (2024) Testing for proportions when data are classified into a large number of groups. *Mathematics and Computers in Simulation*, vol. 223, September 2024, pp 588–600.  
<https://doi.org/10.1016/j.matcom.2024.04.019>
- M.D. Jiménez-Gamero, J. de-Uña-Alvarez (2024) Testing Poissonity of a large number of populations. *Test* 33:81–105.  
<https://doi.org/10.1007/s11749-023-00883-w>
- F Chen, M.D. Jiménez-Gamero, S Meintanis, L Zhu (2022) A general Monte Carlo method for multivariate goodness-of-fit testing with special emphasis on elliptical families. *Comput. Statist. Data Anal.*, vol. 175, November 2022, 107548  
<https://doi.org/10.1016/j.csda.2022.107548>

- M.D. Jiménez-Gamero, Cousido-Rocha, M, Alba-Fernández, MV, Jiménez-Jiménez, F. (2022) Testing the equality of a large number of populations. *Test* 31, 1-21.  
<http://doi.org/10.1007/s11749-021-00769-9>
- N. Henze, M.D. Jiménez-Gamero (2021) A test for Gaussianity in Hilbert spaces via the empirical characteristic functional. *Scandinavian Journal of Statistics*, 48, 406-428.  
<http://doi.org/10.1111/sjos.12470>
- M.D. Jiménez-Gamero, A.M. Franco-Pereira, AM (2021) Testing the equality of a large number of means of functional data. *Journal of Multivariate Analysis* 185, 104778.  
<https://doi.org/10.1016/j.jmva.2021.104778>
- M.D. Jiménez-Gamero, Alba-Fernández, MV (2021) A test for the geometric distribution based on linear regression of order statistics. *Mathematics and Computers in Simulation*, 186, 103-123.  
<https://doi.org/10.1016/j.matcom.2020.08.023>
- M.D. Jiménez-Gamero, Sangyeol Lee, Simos G. Meintanis (2020) Goodness-of-Fit Tests for parametric specification of GARCH models. *Test* 29, 682-703.  
<https://doi.org/10.1007/s11749-019-00676-0>
- MD Jiménez-Gamero, P Puig (2020) A non-parametric method of estimation of the population size in capture-recapture experiments. *Biometrical Journal* 62,970--988.  
<https://doi.org/10.1002/bimj.201900185>

## **C.2. Research projects 2020-**

- Title: Nuevos avances metodológicos y computacionales en estadística no-paramétrica y semiparamétrica.  
Reference: MTM2017-89422-P  
Funded by: Ministerio de Economía, Industria y Competitividad  
Chief investigator: Jacobo de Uña Álvarez (Universidad de Vigo)  
Dates: 2018-2020
- Title: Data Science: from mathematical modeling to mathematical optimization  
Reference: P18-FR-2269  
Funded by: Junta de Andalucía  
Chief investigator: Emilio Carrizosa Priego (Universidad de Sevilla)  
Dates: 2020-2022
- Title: Nuevos avances metodológicos y computacionales en estadística no-paramétrica y semiparamétrica.  
Reference: PID2020-118101GB-I00  
Funded by: Ministerio de Ciencia e Innovación  
Chief investigator: Jacobo de Uña Álvarez (Universidad de Vigo)  
Dates: 2021-2023
- Title: Mathematical Optimization in Data Science: Towards Interpretability in Classification, Regression and Dimensionality Reduction  
Reference: US-1381178  
Funded by: Junta de Andalucía  
Chief Investigator: Emilio Carrizosa Priego  
Dates: from 07/2022 to 12/2022
- Title: Mathematical optimization and statistics for explainable and fair machine  
Reference: PID2022-137818OB-I00  
Funded by: Ministerio de Ciencia e Innovación  
Chief Investigator: Emilio Carrizosa Priego  
Dates: from 09/2023 to 08/2027
- Title: Nuevos avances metodológicos y computacionales en estadística no-paramétrica y semiparamétrica.  
Reference: PID2023-148811NB-I00  
Funded by: Ministerio de Ciencia e Innovación  
Chief investigator: Jacobo de Uña Álvarez (Universidad de Vigo)  
Dates: from 09/2024 to 08/2027
- Title: Influencia social y calidad de la información: Nuevos retos en las finanzas digitales

Funded by: UJA, FEDER

Chief investigator: Jiménez Jiménez, F.; Alba Fernández, M.V.

Dates: from 09/2024 to 08/2026

### C.3. Contracts 2020-

- Title: Análisis contrafactual en el cártel lácteo  
Reference: 4027/1076  
Funded by: qosilTconsulting, S.L.  
Chief investigator: M Dolores Jiménez Gamero (Universidad de Sevilla)  
Dates: 11/2020- 6/2021

### C.6. Others

- **Reviewer.** I have been referee of several journals: Advances and Applications in Statistics, Alea-Latin American Journal of Probability and Mathematical Statistics, Annals of Statistics, Biometrics, Brazilian Journal of Probability and Statistics, Communications in Statistics -- Theory and Methods, Communications in Statistics -- Simulation and Computation, Computational Statistics and Data Analysis, Computers and Mathematics with Applications, Electronic Journal of Statistics, Estadística Española, Fuzzy Sets and Systems, Hacettepe Journal of Mathematics and Statistics, IEEE Access, Information Sciences, Journal of Applied Statistics, Journal of Business & Economic Statistics, Journal of Computational and Applied Mathematics, Journal of Function Spaces, Journal of Interdisciplinary Information Sciences, Journal of Multivariate Analysis, Journal of Nonparametric Statistics, Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference, Journal of the American Statistical Association, Journal of the Korean Statistical Society, Lifetime Data Analysis, Lithuanian Mathematical Journal, Mathematics and Computers in Simulation, Metrika, REVSTAT, Sankhya, Scandinavian Journal of Statistics, Symmetry, Sort, South African Statistical Journal, Statistical Papers, Statistics, Statistics and Probability Letters, Test.
- I am an **Associate Editor** of the journal *Test* from 2021.
- I have been a **member of the Scientific Committee** of the following **Conferences** 2020-
  - Computational and Methodological Statistics (CMStatistics) 2021, 18-20 Dec, London
  - 6th Workshop on Goodness-of-Fit, Change-point and related problems, Kruger National Park, South Africa, 25 – 29 August 2023.
- **Evaluator of research projects** from 2020-
  - ANECA (Spain) in 2022
  - FONDCyT (Argentina) 2021