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**IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.**

<b>Fecha del CVA</b>	8-11-2024
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### Part A. DATOS PERSONALES

Nombre	Leandro		
Apellidos	Pardo Llorente		
Sexo (*)		Fecha de nacimiento (dd/mm/yyyy)	
DNI, NIE, pasaporte			
Dirección email	lpardo@ucm.es	URL Web	
Open Researcher and Contributor ID (ORCID) (*)	0000-0003-2005-8245		

\* datos obligatorios

#### A.1. Situación profesional actual

Puesto	Catedrático de Universidad		
Fecha inicio	15-01-1993		
Organismo/ Institución	Universidad Complutense de Madrid		
Departamento/ Centro	Facultad de Matemáticas (Departamento de Estadística e IO)		
País	España	Teléfono	696332996
Palabras clave	Minimum distance estimators, Wald-type tests, Rao-type tests, Robustness, Reliability, One-shot devices, Proportional Hazard, Step-stress models		

#### A.2. Situación profesional anterior (incluye interrupciones en la carrera investigadora, de acuerdo con el Art. 14. b) de la convocatoria, indicar meses totales)

Periodo	Puesto/ Institución/ País / Motivo interrupción
1976-1983	Profesor No Numerario (Universidad Complutense de Madrid)
1984-1992	Profesor Titular de Universidad (Universidad Complutense de Madrid)

(Incorporar todas las filas que sean necesarias)

#### A.3. Formación Académica

Grado/Master/Tesis	Universidad/Pais	Año
Licenciado (Matemáticas)	Complutense de Madrid	1976
Doctor (Matemáticas)	Complutense de Madrid	1980

(Incorporar todas las filas que sean necesarias)

### Parte B. RESUMEN DEL CV

Leandro Pardo is a Full Professor at the Department of Statistics and Operational Research, Faculty of Mathematical Sciences at Complutense University (UCM) of Madrid (Spain) since 1993. He held a Ph.D. degree in Mathematics from UCM in 1980. He has been actively involved in research work in diverse areas of Statistics and has made significant contributions to many topics on the basis of statistical information theory (Minimum phi-divergence estimators, test statistics based on phi-divergence measures, minimum density power divergence (DPD) estimators, Wald-type tests and Rao-type tests based on minimum DPD estimators, and so on). He has written the book: "Statistical Inference Based on Divergence measures" (Chapman & Hall /CRC), a book with more than 1050 citations in Google Scholar and an important reference in the area of Statistical Information Theory. At this moment he is finishing two new books. The first one jointly with professors A. Basu and A. Ghosh from the Indian Statistical Institute under the title "Statistical Inference based on the DPD: The Robustness Perspective" to be published in 2025 by Chapman & Hall /CRC and the second one jointly



with professors M. Jaenada and N. Balakrishnan under the title “Robust Statistical Inference for Step-Stress Models for Interval-Censored Data” to be published by Springer on January 2026. In 2004 he was elected “Distinguished Eugene Lukacs Professor” in the Bowling Green State University (Bowling Green, Ohio). As it can be seen in [https://en.wikipedia.org/wiki/Lukacs\\_Distinguished\\_Professor](https://en.wikipedia.org/wiki/Lukacs_Distinguished_Professor), this mention has been awarded to very important statisticians as S. Kotz, M. Ghosh, P. K. Sen, C. R. Rao, J. Berger, N. Balakrishnan, K. V. Mardia, P. J. Bickel or B. Efron. As can be seen in MathScinet, he is the author of more than 300 research papers. He has collaborations with 50 different researchers (24 foreign and 26 from Spain) in more than 46 refereed statistical journals such as Adv. Data Anal. Classif., Ann. Inst. Stat. Math., Appl. Math. Compt., Appl. Math. Lett., App. Mat., Aut. N. Z. J. Stat., Bernoulli, Biom. J., Biometrics, Commun. Stat. (Theory and Methods), Commun. Stat (Simul. Com.), Comput. Stat. Data Anal., Eur. J. Oper. Res., IEEE Trans. Man Cybern., IEEE Trans. Inf. Theory, IEEE Trans. Reliab., Inf. Sci., Inter. J. Bioestatistic, J. Appl. Stat., J. Compt. Appl. Math., J. Multi. Anal., J. Nonparam. Stat., J. Stat. Compt. Simul., J. Stat. Plann. Inference, J. Franklin Inst., J. Bus. Econ. Sta., Kybernetika, Kybernetes, Math. Methods Statist., Math. Comput. Simu., Methodology Compt. Appl. Probab., Metrika, Psychometrica, Qual. Reliab. Eng. Int., Shankya, Stat. Methodol., Stat. Pap., Stat. Comput., Stat. Probab. Lett., Stat. Neerl., Statistics, Stat. Sin., TEST, Theory Proba. Appl., Stat. Med., etc. He has given more than 70 invited talks in Spanish and foreign Universities and written more than 35 book chapters. He presented more than 100 papers in national and international conferences. He has an h index of 32 with 5803 citations in Academic Google. In Indice-h Matemáticas-Group DIH (<https://grupodih.info/matemat.html>) is among the top 20 Spanish Statisticians and in the area of Statistics and Probability (h-index, Web of Science, 21). • He has led 13 research national grants as well as some international grants since 1990. • He has obtained seven six-years research periods, the first one for 1976-1982 and the last one for 2012-2018. • He is the leader of the consolidated research group of UCM “Inferential Procedures based on divergences”. • He has written more than 9 academic books independently of the research book cited previously: Simulación (ISBN:84-86251-59-1), Decisiones Estratégicas (ISBN:84-86251-64- 8), Ejercicios y Problemas de Cálculo de Probabilidades (ISBN:84-86251-75-3), Programación Lineal Continua (ISBN 84-86251-74-5), Programación Lineal Entera (ISBN 84-87189-26-1), Curso Superior de Probabilidades (ISBN:84-86251-74-5), Teoría de la Probabilidad (ISBN 84-7738-516-5), Teoría de la Información Estadística (ISBN: 84-88895- 42-9), Robust Procedures for estimating and testing in the framework of Divergence measures (ISBN: 978-3-0365-1459-8). • He has been advisor of 10 PhD students. • He has been editor in chief for TEST and AE for Journal of Multivariate Analysis, Journal of Statistical Planning and Inference, TEST, Communications in Statistics (Theory and Methods), Communications in Statistics (Simulation and Computation) and Revista Matemática Complutense. • He has been scientific visitor in some Universities: McMaster University (Prof. Balakrishnan), Bowling Green University (Prof. Arjun Gupta), Ohio University (N.Cressie), Ioannina University (Prof. K. Zografos), Iowa State University (Prof. N. Cressie), Institute of Information Theory and Automation (Prof. I. Vajda), etc. • He has been Chair of the Department of Statistics and Operational Research. • He has been President of the Spanish Society of Statistics and Operations Research (SEIO). • In 2020 he received the Medal of SEIO.

### **Part C. LISTADO DE APORTACIONES MÁS RELEVANTES (Últimos 5 años)**

1. Felipe, A.; Jaenada, M.; Miranda, P.; Pardo, L. (2024). Model selection for independent not identically distributed observations based on Rényi's pseudodistances. *Journal of Computational and Applied Mathematics*, 440, (Applied Mathematics, 45/267, Q1).
2. Balakrishnan, N., Jaenada, M., and Pardo, L. (2024). Non-destructive one-shot device test under step-stress experiment with lognormal lifetime distribution. *Journal of Computational and Applied Mathematics*, 437, 115483. (Applied Mathematics, 45/267, Q1).
3. Balakrishnan N., Jaenada M. and Pardo L. (2024). Step-stress tests for interval-censored data under gamma lifetime distribution, *Quality Engineering*, 36(1), 3-20.
4. Balakrishnan N., Castilla E., Jaenada M. and Pardo L. (2023). Robust inference for nondestructive one-shot device testing under step-stress model with exponential lifetimes. *Quality and Reliability Engineering International*, 39(4), 1192-1222.
5. Castilla, E., Jaenada, M., and Pardo, L. (2022). Estimation and testing on independent not identically distributed observations based on Rényi's pseudodistances. *IEEE Transactions on Information Theory*, 68(7), 4588-4609.
6. Castilla, E., Jaenada, M., Martín, N., and Pardo, L. (2022). Comparing two dependent normal populations through Wald-type tests based on Rényi's pseudodistance estimators. *Statistics and Computing*, 32(6), 1- 34. Impact Factor: 2.809 (Statistics, Probability and Uncertainty, 38/168, Q1)
7. Basu, A., Ghosh, A., Martín, N., and Pardo, L. (2021). A robust generalization of the Rao test.



*Journal of Business & Economic Statistics*. 40(2), 868-879, JCR I.F.: 6.565 Statistics & Probability: 2/125 (Q1).

8. Castilla, E., Ghosh, A., Martín, N. & Pardo, L. (2021). Robust semiparametric inference for polytomous logistic regression with complex survey design. *Advances in Data Analysis and Classification*. 15, 701-734. (40/125, Statistics & Probability (Q2,T1)).
9. Balakrishnan, N., Castilla, E., Martín N. and Pardo, L. (2021). Divergence-based robust inference under proportional hazards model for one-shot device life-test. *IEEE transactions on Reliability*. 20, 4, 1355-1367. JCR I.F.: 4.244 Computer Science, Software Engineering: 13/108 (Q1, T1).
10. Balakrishnan, N., Castilla, E., Martín N. & Pardo, L. (2020). Robust inference for one-shot device testing data under Weibull lifetime model. *IEEE Transactions on Reliability*. 69(3), pp. 937-953. JCR I.F.: 3.177 Computer Science, Software Engineering: 17/108 (Q1,,T1).
11. Balakrishnan, N., Castilla, E., Martín N. and Pardo, L. (2020). Robust inference for one-shot device testing data under exponential lifetime model with multiple stresses. *Quality and Reliability Engineering International*. 36, 1916-1930. JCR I.F.: 2.885 Engineering, Multidisciplinary: 34/91 (Q2,T2)

## **C.2. Congresos (Últimos 5 años)**

1. Robust inference for high-dimensional logistic regression. (A. Ghosh, M. Jaenada and L. Pardo). 7th International Conference on Econometrics and Statistics (EcoSta 2024) Beijing Normal University, Pekín, China, Julio 2024. (Invited Talk)
2. Robust Estimation for Step-Stress Accelerated Life Tests Under Interval Censoring and Competing Risks. . (N. Balakrishnan, M. Jaenada, L. Pardo). 2024 Joint Research Conference On Statistics In Quality, Technology, And Industry. Waterloo, Canada, Junio 2024. (Invited Talk).
3. Robust estimation and testing for step-stress experiments under interval censoring (N. Balakrishnan, M. Jaenada, L.Pardo). Invited contribution. IMACS 21st World Congress, 11 - 15 September 2023, University La Sapienza, Roma, Italy. (Invited Talk).
4. On a New Family of Robust Estimators for the Parameters of the Log-logistic Distribution (A. Felipe, M. Jaenada, P. Miranda and L. Pardo). SMTDA 2024 and Demographics 2024. Tuesday 4-Friday 7 June 2024. Chania-Crete. Greece.
5. Robust methods for step-stress accelerated life testing with lognormal lifetime distribution under interval-censoring (N. Balakrishnan, M. Jaenada and L.Pardo). 12th International Conference on Mathematical Methods in Reliability (MMR2023), 2023.
6. Robust estimation for step-stress experiments with non-destructive one-shot devices under lognormal lifetimes (N. Balakrishnan, M. Jaenada, L.Pardo). 35th Panhellenic and 1st International Statistics Conference, Statistics in Health Sciences, 2023, Athens.
7. Robust methods for step-stress accelerated life testing with lognormal lifetime distribution under interval-censoring (N. Balakrishnan, M. Jaenada, L.Pardo). 12th International Conference on Mathematical Methods in Reliability (MMR2023), 2023.
8. Robust tests based on minimum Rényi pseudodistance estimators. (M. Jaenada, P. Miranda, L.Pardo) 7th Stochastic Modeling Techniques and Data Analysis International Conference and Demographics 2022 Workshop, 2022.
9. Minimum RP estimators for independent but not identically distributed observations (E. Castilla, M. Jaenada and L. Pardo). 19th Conference of the Applied Stochastic Models and Data Analysis International Society (ASMDA2021), Athens, Greece (Online), 1-4 June 2021.



- Organizer of various invited sessions at international conferences: 24th Meeting of Statisticians (2002, Prague, Czech Republic), 14th Prague Conference on Information Theory, Statistical Decision Functions and Random Process (2002, Prague, Czech Republic), International Conference in Robust Statistics ICORS (2012, Burlington, Vermont, USA), International Conference in Robust Statistics ICORS (2015, Kolkata, India), International Conference on Advances in Probability and Statistics-Theory and Applications: A Celebration of N. Balakrishnan's 30 years of Contribution to Statistics (2011, China), etc.
- Member of Scientific Committees of International Congresses: International Conference in Robust Statistics ICORS (2013, Saint Petersburg, Russia), International Conference on Advances in Probability and Statistics-Theory and Applications: A Celebration of N. Balakrishnan's 30 years of Contribution to Statistics (2011, Hong Kong, China), etc.

### **C.3. Proyectos o líneas de investigación en los que ha participado (Últimos 20 años)**

1. PID2021-124933NB-I00. (2022-2024). New robust procedures based on density power divergences for non-destructive one-shot devices testing under the step-stress model. IP Leandro Pardo and Pedro Miranda (I+D del Plan Nacional).
2. PGC2018-095194-B-I00. (2019-2021). Estimación y Contrastes de hipótesis para datos de alta dimensión basados en la divergencia de potencias de densidad. IP Leandro Pardo (I+D del Plan Nacional).
3. MTM2015-67057-P. (2016-2018) Estimación y Contrastes basados en Medidas de divergencia para la modelización de dispositivos de un solo uso. IP. Leandro Pardo (I+D del Plan Nacional).
4. MTM2012-33740. (2013- 2015). Empirical Likelihood and Some Generalized Tests of Hypotheses based on Phi-divergence Measures. IP: Leandro Pardo (I+D del Plan Nacional).
5. MTM2009-10072. (2010-2012). Statistical Inference based on Divergence Measures for Log-linear Models with Inequality Restrictions: Application for Clinical Trials. IP: Leandro Pardo. (I+D del Plan Nacional). (Llevaba la incorporación de un becario. Becaria, Raquel Mata (BES-2010-037885), que leyó su tesis en 2014).
6. HG2004-0012: Statistical Information Theory Methods in Bioinformatics. IP (Por España, L. Pardo y por Grecia, K. Zografos). Acción Integrada Hispano-Griega.2005-2006.
7. MTM2006-06872. (2006-2009). Estimadores "Ridge", "Pretest" y tipo James-Stein basados en Medidas de Divergencia en el modelo lineal generalizado con datos binarios o multinomiales. IP: Leandro Pardo (I+D del Plan Nacional). (Llevaba la incorporación de un becario. Becaria, Rosa Alonso (BES-2007-14901), que leyó su tesis en 2011).
8. SA 5-2-05, GRG 970442, 1054/97JARCH-SU1: Test based on Divergences Measures in General Populations. Dos IP: Leandro Pardo y Noel Cressie (Proyecto OTAN) 1998-1999.
9. .BFM2003-00892. (2003-2006). Nuevos Procedimientos de Estimación y Contraste en Modelos de Regresión Logística Basados en Medidas de Divergencia. IP: Leandro Pardo (I+D del Plan Nacional).
10. BFM2000-0800. (2000-2003.) Técnicas Inferenciales en Modelos Loglineales Basados en Medidas de Phi-divergencia. IP: Leandro Pardo (I+D del Plan Nacional).

- He sido IP, ininterrumpidamente, desde 1990.