

# **Currículum Vitae – Vanesa Jordá**

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## **Higher Education**

- 2014 Ph.D in Economics. University of Cantabria.
- 2011 M.Sc. in Economics. University of the Basque Country, University of Cantabria, University of Oviedo.
- 2010 B.Sc. in Economics, University of Cantabria.

## **Academic positions**

- Associate Professor, Department of Economics, University of Cantabria, 2019 –.
- Assistant Professor, Department of Economics, University of Cantabria, 2014 – 2019.
- Doctoral Research Fellow, Department of Economics, University of Cantabria, 2011 – 2014.

## **Research visits**

- Helsinki Center of Economic Research (HECER), University of Helsinki, February-March, 2017.
- World Institute for Development Economics Research, United Nations University (UNU-WIDER), April-June, 2016.
- Herman Deeleck Centre for Social Policy, University of Antwerp, April-May, 2014; May, 2015.
- Department of Economics, University of Reading, February-May, 2013.

# Publications

## Journal articles

- 2021 Vanesa Jorda, Jose María Sarabia, and Markus Jäntti. Inequality measurement with grouped data: Parametric and nonparametric methods. *Journal of the Royal Statistical Society: Series A*, 2021.
- Emilio Gómez-Déniz, José María Sarabia, and Vanesa Jordá. Parametric Lorenz curves based on the beta system of distributions. *Communications in Statistics-Theory and Methods*, 2021.
- José María Sarabia, Vanesa Jordá, Faustino Prieto, and Montserrat Guillén. Multivariate classes of GB2 distributions with applications. *Mathematics*, 9(1):72, 2021.
- 2020 José María Sarabia and Vanesa Jorda. Lorenz surfaces based on the Sarmanov–Lee distribution with applications to multidimensional inequality in well-being. *Mathematics*, 8(11):2095, 2020.
- José María Sarabia, Faustino Prieto, Vanesa Jordá, and Stefan Sperlich. A note on combining machine learning with statistical modeling for financial data analysis. *Risks*, 8(2):32, 2020.
- 2019 José M. Alonso, Rhys Andrews, and Vanesa Jordá. Do neighbourhood renewal programs reduce crime rates? Evidence from england. *Journal of Urban Economics*, 110:51–69, 2019.
- Vanesa Jordá and Miguel Niño-Zarazúa. Global inequality: How large is the effect of top incomes? *World Development*, 123:104593, 2019.
- José María Sarabia, Vanesa Jordá, and Faustino Prieto. On a new Pareto-type distribution with applications in the study of income inequality and risk analysis. *Physica A: Statistical Mechanics and its Applications*, page 121277, 2019.
- Montserrat Guillen, José María Sarabia, Faustino Prieto, and Vanesa Jordá. Aggregation of dependent risks with heavy-tail distributions. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, 27(Supp01):77–88, 2019.
- 2018 Vanesa Jordá, Borja López-Noval, and José María Sarabia. Distributional dynamics of life satisfaction in Europe. *Journal of Happiness Studies*, 20(4):1015–1039, 2019.
- José María Sarabia, Emilio Gómez-Déniz, Faustino Prieto, and Vanesa Jordá. Aggregation of dependent risks in mixtures of exponential distributions and extensions. *ASTIN Bulletin: The Journal of the IAA*, 48(3):1079–1107, 2018.
- 2017 Vanesa Jordá and José M. Alonso. New estimates on educational attainment using a continuous approach (1970–2010). *World Development*, 90:281–293, 2017.

- José María Sarabia, Vanesa Jordá, and Carmen Trueba. The Lamé class of Lorenz curves. *Communications in Statistics-Theory and Methods*, 46(11):5311–5326, 2017.
- 2016 José María Sarabia, Vanesa Jordá, and Lorena Remuzgo. The Theil indices in parametric families of income distributions – a short review. *The Review of Income and Wealth*, 63(4):867–880, 2017.
- José María Sarabia, Emilio Gómez-Déniz, Faustino Prieto, and Vanesa Jordá. Risk aggregation in multivariate dependent Pareto distributions. *Insurance: Mathematics and Economics*, 71:154–163, 2016.
- 2015 Vanesa Jordá and José María Sarabia. International convergence in well-being indicators. *Social Indicators Research*, 120:1–27, 2015.
- José María Sarabia, Faustino Prieto, and Vanesa Jordá. About the hyperbolic Lorenz curve. *Economics Letters*, 136:42–45, 2015.
- 2014 Vanesa Jordá and José María Sarabia. Well-being distribution in the globalization era: 30 years of convergence. *Applied Research in Quality of Life*, pages 1–18, 2014.
- Vanesa Jordá, José María Sarabia, and Faustino Prieto. On the estimation of the global income distribution using a parsimonious approach. *Research on Economic Inequality*, 22:115–145, 2014.
- José María Sarabia and Vanesa Jordá. Explicit expressions of the Pietra index for the generalized function for the size distribution of income. *Physica A: Statistical Mechanics and its Applications*, 416:582–595, 2014.
- José María Sarabia, Faustino Prieto, and Vanesa Jordá. Bivariate beta-generated distributions with applications to well-being data. *Journal of Statistical Distributions and Applications*, 1(1):15, 2014.
- 2013 José María Sarabia, Faustino Prieto, Carmen Trueba, and Vanesa Jordá. About the modified Gaussian family of income distributions with applications to individual incomes. *Physica A: Statistical Mechanics and its Applications*, 392(6):1398–1408, 2013.

## Other articles

- 2014 Vanesa Jordá, Carmen Trueba, and Jose Maria Sarabia. Análisis multidimensional de la desigualdad en el marco del Desarrollo Humano. *Estudios de Economía Aplicada*, 32:765–788, 2014.
- José María Sarabia, Vanesa Jordá, and Carmen Trueba. Estimating the income distribution in Latin America using limited information. *International Advances in Economic Research*, 20(2):231–232, 2014.

## Book chapters

- 2014 José María Sarabia and Vanesa Jordá. Bivariate Lorenz curves based on the Sarmanov–Lee distribution. In *Topics in Statistical Simulation*, pages 447–455. Springer, 2014.
- 2013 Carmen Trueba, Vanesa Jordá, and José María Sarabia. Medidas de desigualdad multidimensional de entropía generalizada: una aplicación al estudio de la polarización en México. In *ANALES de Economía Aplicada 2013*. Delta Publicaciones, 2013. ISBN: 978-84-15581-72-7.
- 2012 Vanesa Jordá and José María Sarabia. La curva de Kuznets del desarrollo humano: algunas evidencias con datos de panel. In *ANALES de Economía Aplicada 2012*. Delta Publicaciones, 2012. ISBN: 978-84-15581-10-9.

## Research grants

Riesgos Dependientes: Modelización y Aplicaciones. Ministerio de Ciencia e Innovación, Government of Spain. PID2019-105986GB-C22. 2020 – 2023. Co-investigator. (38115€).

What works to mitigate and reduce relative (and absolute) inequality? A critical review. University of Copenhagen. 2019. Principal investigator. (10000 US\$).

Evolution of the global distribution of health indicators from 1950 to 2015. United Nations University - World Institute for Development Economics Research, 2016 – 2017. Principal investigator. (6000 US\$)

Parametric and semiparametric multivariate models of dependent risk: Specification, estimation and inference. Plan Estatal de I+D+I (Excelencia-Retos). Government of Spain. ECO2016-76203-C2-1-P. 2017 – 2019. Co-investigator. (52030€)

New methods for the empirical analysis of financial markets. Santander Financial Institute (SANFI). 2015 – 2016. Co-investigator. (200000€)

Parametric and semiparametric models of dependent risks. Proyectos I+D, Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia. Government of Spain. ECO2013-48326- C2-2-P. 2015 – 2017. Co-investigator. (49400€)

Gender inequality at the University of Cantabria. Annual report. University of Cantabria. 2015.(6000€)

Modeling dependent risks. Proyectos Puente 2014. University of Cantabria. 2014 – 2015. Co-investigator. (5625€)

Parametric and semiparametric models for the study of economic inequality: Specification, estimation and inference. Government of Spain. ECO2010-15455. 2010 – 2013. Co-investigator. (67034€)

## Statistical Software

*GB2Group*: Estimation of the Generalised Beta Distribution of the Second Kind from Grouped Data, R-Package.

*Educineq*: Compute and decompose inequality in education, R-Package.

## Conferences

### Conference presentations

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|------|---|
| 2019 | <p>Eighth Meeting of the Society for the Study of Economic Inequality (ECINEQ), Paris School of Economics, July 2019.</p> <p>Royal Economic Society (RES) Annual Conference 2019, the University of Warwick, April 2019.</p>  |
| 2018 | <p>35th International Association for Research in Income and Wealth (IARIW) General Conference, Copenhagen, August 2018.</p> <p>Sustainability and Development Conference, Michigan University, November 2018.</p> <p>7th Workshop on Risk Management and Insurance (RISK), Santander, April 2018.</p>  |
| 2017 | <p>Development in the Face of Global Inequalities, Institut Barcelona d'Estudis Internacionals (IBEI), May 2017.</p> <p>Seventh Meeting of the Society for the Study of Economic Inequality (ECINEQ) , The Graduate Center, City University of New York, New York City, July 2017.</p> <p>32nd Annual Congress of the European Economic Association, Lisbon, August 2017.</p> |
| 2016 | <p>APPAM International Conference, Inequalities: Addressing the Growing Challenge for Policymakers Worldwide. London School of Economics, June 2016.</p> <p>23rd Public Economics Meeting, Universidad de Vigo, February 2016.</p>  |
| 2015 | <p>Sixth Meeting of the Society for the Study of Economic Inequality (ECINEQ). Luxembourg, July 2015.</p> <p>Insurance: Mathematics and Economics (IME). University of Liverpool, June 2015.</p> <p>XXII Public Economics Meeting. Santander, January 2015.</p> <p>X Winter School on Inequality and Social Welfare, Alba di Canazei, January 2015.</p>                       |
| 2014 | <p>XI Foro Internacional sobre Evaluación de la Calidad en la Investigación y la Educación Superior. Bilbao, July 2014.</p> <p>XXI Encuentro Internacional de Profesores Universitarios de Matemáticas en Economía y Empresa (ASEPUMA). Málaga, July 2014.</p> <p>XV Iberian-Italian Congress of Financial and Actuarial Mathematics. Sevilla, October 2014.</p>              |

- VI conference of the Spanish-Portuguese Association of Resource and Environmental Economics (AERNA). Gerona, September 2014.
- International Conference on Advances in Management, Economics and Social Science. Rome, June 2014.
- XXI Public Economics Meeting. Gerona, January 2014.
- 2013 Workshop on Economics of Energy Efficiency. Reus, December 2013.
- XXXIX International Conference on Regional Science. Oviedo, November 2013.
- International Conference on Statistical Distributions and Applications. Mt Pleasant, October 2013.
- Fifth Meeting of the Society for the Study of Economic Inequality (ECINEQ). Bari, July 2013.
- International Conference on Applied Economics (ICOAE). Instambul, June 2013.
- 7th International Workshop on Simulation. Rimini, May 2013.
- XXVII International Conference of Applied Economics. Zaragoza, July 2013.
- XV World Economic Meeting. Santander, June 2013.
- 75th International Atlantic Economic Meeting. Vienna, April 2013.
- XX Meeting of Public Economics. Sevilla, January 2013.
- 2012 10th International Conference on ordered Statistical Data and Their Applications. Murcia, May 2012
- International Conference on Regional Science. Bilbao, November 2012.
- 2011 XXV International Conference of Applied Economics. Santander, June 2011.
- XIII World Economic Meeting. San Sebastián, May 2011.

## **Invited seminars**

Centre d'Estudis Demogràfics, Universidad Autónoma de Barcelona. Barcelona, April 2018.

World Institute for Development Economics Research, United Nations University (UNU-WIDER). Helsinki, June 2016.

Department of Economics, University of Cantabria. Santander, February 2016.

Herman Deeleck Centre for Social Policy, University of Antwerp. Antwerp, April 2015.

Herman Deeleck Centre for Social Policy, University of Antwerp. Antwerp, May 2014.

Department of Economics, University of Reading. Reading, May 2013.

## **Conference organization**

Member of the Scientific Advisory Board of ASEPUMA 2019. Santander, June 2019.

Co-Organizer of the 7th Workshop on Risk Management and Insurance. Santander, April, 2018.

Co-Organizer of COMSOTEC 2015, Society for the Study of Socioeconomic Complex Systems. Santander, October 2015.

Co-Organizer of the XV World Economic Meeting, World Economic Society. Santander, June 2013, Santander.

## **Refereeing**

Annals of Regional Science, Acta Oeconomica, Bulletin of Economic Research, Econometrics, Econometrics and Statistics, European Journal of Development Research, German Socioeconomic Review, International Tax and Public Finance, Journal of Economic Inequality, Journal of Economic Surveys, Journal of Income Distribution, Journal of Happiness Studies, Journal of Probability and Statistics, Iberoamerican Journal of Development Studies, International Tax and Public Finance, Review of Income and Wealth, Social Indicators Research, Sustainability, Research on Economic Inequality, World Development.



## Teaching

Quantitative Methods in Economics, MSc Methods and Tools of Economic Analysis (2015, 2016, 2017, 2018, 2019, 2020).

Multivariate Analysis, BSc Economics (2015, 2016, 2017, 2018, 2019).

Mathematics for Economists, BSc Economics (2015, 2016, 2017).

Statistics I, BSc Economics (2014).

Statistics I, BSc Business Administration (2015).

Quantitative Methods in Economics and Business, BSc Economics (2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020).

Statistics II, BSc Business Administration (2013, 2016, 2017, 2018, 2019, 2020).

Statistics II, BSc Economics (2013, 2015).

Statistics, BSc Tourism Management (2019).

## Short courses

Quantitative Methods in Finance, Master in Finance and Financial Markets (2014, 2015, 2017).

Advanced Statistics with R (2018, 2019, 2020)

Basic Statistics with R (2016, 2017, 2018, 2019, 2020)

Elementary Statistics with R (2016, 2017, 2018, 2019, 2020)

## Teaching Publications

José María Sarabia, Sarabia, Faustino Prieto, and Vanesa Jordá. *Prácticas de Estadística con R*. Piramide, 2018. ISBN: 978-84-368-3873-2

José María Sarabia, Faustino Prieto, and Vanesa Jordá. *Apuntes de Estadística II*. Ediciones TGD, 2016. ISBN: 978-84-368-3211-2

José María Sarabia, Sarabia, Carmen Trueba, Lorena Remuzgo, Vanesa Jordá, and Faustino Prieto. *Problemas Resueltos de Estadística para las Ciencias Sociales*. Piramide, 2014. ISBN: 978-84-368-3211-2

## **Teaching innovation projects**

Teaching innovation project UC-OPEN COURSE WARE 2014.

“Teaching Innovation Certificate” certified by the University of Cantabria.

“Virtual Teaching Certificate” certified by the University of Cantabria.

## **Academic supervision activity**

Master thesis supervision of Joanna Bashford Fernández, ‘A new look at local employment multipliers: preliminary evidence from Spain’.

## **Honors**

Best paper presented at the 35th IARIW General Conference, awarded by the International Association for Research in Income and Wealth. August 2018.

Best PhD dissertation in social sciences, awarded by the Social Council of the University of Cantabria. March 2017.

Best PhD dissertation in social sciences at the University of Cantabria, awarded by the University of Cantabria. January 2017.

National postgraduate scholarship (competitive 4-year scholarship). From December 2011 to November 2014 - Ministry of Education. Government of Spain.

Postgraduate scholarship of the University of Cantabria. From May to November 2011 - University of Cantabria, Santander (Spain).

Visiting fellowship grant. October 2012 - Ministry of Education. Government of Spain.

Research scholarship at the University of Cantabria. Topic:“Economic Development in Latin America”, From October 2009 to July 2010.