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ACADEMIC QUALIFICATIONS

Ph.D. in Economics, The London School of Economics, University of London, UK (1998)
MSc. in Monetary Economics, Centro de Estudios Monetarios y Financieros (CEMFI), Spain (1993)
Licenciado en Ciencias Económicas, Universidad Complutense de Madrid, Spain. (1991)

ACADEMIC APPOINTMENTS

Since Jan 2008	Associate Professor at Universidad Carlos III de Madrid
Oct 1997/Dec 2007	Assistant Professor at Universidad Carlos III de Madrid
Jan 1997/Sep 1997	Assistant Professor at Universitat Pompeu Fabra, Barcelona.

FIELDS OF INTERESTS

Applied Econometrics, Segregation.

PUBLICATIONS

h index: 15 ([Google Scholar](#))

21. “mutualinf: An R Package for Computing and Decomposing the Mutual Information Index of Segregation”, 2023, (with Rafael Fuentealba-Chaura, Daniel Guinea-Martin and Julio Rojas-Mora), *The R Journal*, (<https://journal.r-project.org/articles/RJ-2023-047/>) JCR Impact Factor: 1.673 (Q2 Statistics & Probability).
20. “The Role of Mothers on Female Labour Force Participation: An approach using historical parish records”, 2023, (with Jesus Carro and Matilde P. Machado), *Empirical Economics*, ([uc3m wp](#)), JCR Impact Factor: 2.647 (Q2 Economics).
 - <https://doi.org/10.1007/s00181-023-02370-5>
19. “Computing decomposable multigroup indices of segregation”, 2022, (with Daniel Guinea-Martin), *Stata Journal*, 22, Number 3, pp. 521–556 ([uc3m wp](#)) JCR Impact Factor: 4.451 (Q1 Statistics & Probability, Q1 Social Sciences, Mathematical Methods).
 - <https://doi.org/10.1177/1536867X221124471>
18. “On the use of social networking services and the ability to socialize : evidence from Chinese children aged 10 to 15”, 2022, (with Yunrong Li), *Applied Economics*. Online print: 54:49, 5639-5654 ([uc3m wp](#)) 2021 JCR Impact Factor: 1.880 (Q2 Economics).
 - <https://doi.org/10.1080/00036846.2022.2042466>

17. “The evolution of gender segregation over the life course”, 2018, (with Daniel Guinea-Martin and Javier Ruiz-Castillo), *American Sociological Review*, 83(5):983-1019 ([uc3m wp](#)) JCR Impact Factor: 9.654 (Q1 Sociology).
 - <https://doi.org/10.1177/0003122418794503>
16. “Dual employment protection and (lack of) on-the-job training: PIAAC Evidence for Spain and other European countries”, 2017, (with Antonio Cabrales y Juan José Dolado), 2017, *SERIES*, 8:345-371, JCR Impact Factor: 0.833 (Q3 Economics).
 - <https://doi.org/10.1007/s13209-017-0166-9>
15. “Alternative Diff-in-Diffs Estimators with Several Pre-treatment Periods”, 2016, (with Iliana Reggio), *Econometric Reviews*, 38(5):465-486, ([uc3m wp](#)). JCR Impact Factor: 1.817 (Q1 Economics).
 - <https://doi.org/10.1080/07474938.2017.1348683>
14. “Re-assessing the impact of the grandparent’s income on the infant mortality rate : an evaluation of the Old Age Allowance program in Nepal”, 2016, (with Yunrong Li), *World Development*, 87:333-348. ([uc3m wp](#)) JCR Impact Factor: 3.905 (Q1 Economics).
 - <https://doi.org/10.1016/j.worlddev.2016.07.002>
13. “didq: A command for treatment effect estimation under alternative assumptions”, 2015, (with Iliana Reggio), *The Stata Journal*, 15(3):796-808. ([uc3m wp](#)) JCR Impact Factor: 2.158 (Q1 Statistics & Probability).
 - <https://doi.org/10.1177/1536867X1501500312>
12. “The joint effect of ethnicity and gender on occupational segregation. An approach based on the Mutual Information Index”, 2015, (with Daniel Guinea-Martin and Javier Ruiz-Castillo), *Social Science Research*, 49:167-178. ([uc3m wp](#)) JCR Impact Factor: 1.770 (Q1 Sociology).
 - <https://doi.org/10.1016/j.ssresearch.2014.08.007>
11. “Can We Infer Hospital Quality from Medical Graduates' Residency Choices?”, 2012, (with Matilde P. Machado and Antonio Romero-Medina), *Journal of the European Economic Association*, 10(6):1400–1424. JCR Impact Factor: 3.356 (Q1 Economics).
 - <https://doi.org/10.1111/j.1542-4774.2012.01087.x>
10. “Entropy-Based Segregation Indices”, 2011, (with Ruiz-Castillo), *Sociological Methodology* 41(1):159-194. ([post-print](#)) JCR Impact Factor: 3.167 (Q1 Sociology).
 - <https://doi.org/10.1111/j.1467-9531.2011.01237.x>
9. “Productivity and International Competitiveness in the European Union and the United States”, 2010, (with V. Eldon Ball, Jean-Pierre Butault and Carlos San-Juan), *Agricultural Economics*. ([post-print](#)) JCR Impact Factor: 1.329 (Q1 Agricultural Economics & Policy).
 - <https://doi.org/10.1111/j.1574-0862.2010.00476.x>
8. “The Invariance Properties of the Mutual Information Index of Multigroup Segregation”,

- 2009, (with Javier Ruiz-Castillo), *Research on Economic Inequality*, 17:33-53.
- [http://dx.doi.org/10.1108/S1049-2585\(2009\)0000017005](http://dx.doi.org/10.1108/S1049-2585(2009)0000017005)
7. “A Nonparametric Decomposition of the Mexican American Wage Gap”, 2008, *Journal of Applied Econometrics*, 23(4):463-485. ([uc3m wp](#)) JCR Impact Factor: 1.648 (Q1 Economics).
 - <https://doi.org/10.1002/jae.1006>
 6. “Una valoración de la enseñanza superior a partir de los salarios esperados y los salarios sombra de los estudiantes universitarios”, 2007, (with César Alonso-Borrego and Antonio Romero-Medina), *Cuadernos Económicos de ICE*, 74:11-38. ([post-print](#))
 5. “An Algorithm to Reduce the Occupational Space in Gender Segregation Studies”, 2005, (with Neus Herranz and Javier Ruiz-Castillo), *Journal of Applied Econometrics*, 20(1): 25-37. JCR Impact Factor: 1.319 (Q1).
 - <https://doi.org/10.1002/jae.829>
 4. “External Factors in Emerging Market Recoveries: An Empirical Investigation”, 2005, (with Georges Siotis), *European Economic Review*, 49(3): 683-702. JCR Impact Factor: 1.169 (Q1 Economics).
 - [https://doi.org/10.1016/S0014-2921\(03\)00065-5](https://doi.org/10.1016/S0014-2921(03)00065-5)
 3. “Geographical Specialization in Spanish Agriculture Before and After Integration in the European Union”, 2004, (with Carlos San-Juan), *Regional Science and Urban Economics*, 34(3): 309-320. JCR Impact Factor: 0.742 (Q2 Economics).
 - [https://doi.org/10.1016/S0166-0462\(03\)00042-5](https://doi.org/10.1016/S0166-0462(03)00042-5)
 2. “Gender Segregation by Occupations in the Public and the Private Sector. The Case of Spain”, 2004, (with Javier Ruiz-Castillo), *Investigaciones Económicas*, 28(3): 399-428. 2007 JCR Impact Factor: 0.08 (Q4 Economics).
 - [Open access at Redalyc](#)
 1. “Additively decomposable segregation indexes. The case of gender segregation by occupations and human capital levels in Spain”, 2003, (with Javier Ruiz-Castillo), *Journal of Economic Inequality*, 1: 147-179. 2010 JCR Impact Factor: 0.641 (Q2 Economics).
 - <https://doi.org/10.1023/A:1026198429377>

Other Publications

- “La segregación de género en España. Un estudio de la situación laboral en perspectiva comparada (2006-2018)”, 2020, (with Daniel Guinea-Martín) in J.J. González Rodríguez (ed.) *Cambio social en la España del siglo XXI*, Alianza Editorial.
- “Segregation: Empirical findings”, 2018, (with Jackes Silber) in D’Ambrosio, C. (editor) *Handbook of Research on Economic and Social Well-being*, Edward Elgar Publishing.

- “Dualidad laboral y déficit de formación ocupacional: Evidencia sobre España con datos de PIAAC”, 2013, (with Antonio Cabrales y Juan José Dolado) in *Programa internacional para la evaluación de las competencias de la población adulta*, Volumen II, Ministerio de Educación.
- “Agricultural Competitiveness”, 2010, (with V. Eldon Ball, Jean-Pierre Butault, and Carlos San-Juan), in Ball, Fanfani, Gutierrez (Eds.) in *The Economic Impact of Public Support to Agriculture*, Studies in Productivity and Efficiency, Vol. 7.
- “Studies investigating economic, agricultural-economic and demographic factors influencing land use dynamics”, 2009, (with Carlos San-Juan) in Romero, Belmonte, Alonso, López (coord.). in *Advances in studies on desertification*. Murcia : Universidad de Murcia, EDITUM. ([e-file](#))
- “Farmers income distribution and subsidies: product discrimination in direct payment policies for continental and mediterranean agriculture”, 2004, (with Carlos San-Juan), in Poppe and Krijgsman (eds.), *Income issues in Farm Households and the role of the FADN*. LEI. The Hague.
- “Product Concentration and Farm Specialization in Spain After Implementation of the Common Agricultural Policy and its Reform”, 2004, (with Carlos San-Juan), in Poppe and Krijgsman (eds.), *New Roads for Farm Accounting and FADN*. LEI. The Hague.
- “The representativeness of the Spanish RICA Survey”, 2003, (with Carlos San-Juan and Eusebio de la Torre) in Poppe, Povellato, and Krijgsman (eds.), *European Farmers and the Growing of Data*. LEI. The Hague.
- “Efectos en la Oferta de las Regulaciones de Mercados Un analisis por CCAA de la concentracion y segregacion productiva”, 2002, (with Carlos San-Juan), in Lamo de Espinosa (ed) *Visión del futuro de la agricultura española*. MAPYA.
- “Comportamiento Estratégico en las Admisiones Universitarias El Caso Español”, 2000, (with Antonio Romero-Medina) in *Jóvenes Economistas en Andalucía*. Facultad de CC.EE de la Universidad de Málaga.

SEMINARS AND CONFERENCES

- Spanish Stata Users Group meeting, Madrid, Spain. 2022. “Computing decomposable multigroup indices of segregation”
- Spanish Stata Users Group meeting, Madrid, Spain. 2019. “crtrees: an implementation of Classification And Regression Trees (CART) & Random Forests in Stata”
- 43rd Simposio de la Asociación Española de Economía-Spanish Economic Association, 2018. “Does Limiting Internet Use Among Adolescents Affect their Offline Social Relations?” (with Yunrong Li)
- IZA Brown Bag Seminar 2018. “Are online and offline social interactions among adolescents complements or substitutes?” (with Yunrong Li)
- Spanish Stata Users Group meeting, Madrid, Spain. 2017. “Complementarity analysis in multinomial models: The gentzkow command”
- Spanish Stata Users Group meeting, Madrid, Spain. 2015. “aries: an implementation of CART in Stata”
- First Annual Conference of the International Association for Applied Econometrics, London, UK, 2014. “Treatment Effect Identification Using Alternative Parallel Assumptions” (with I. Reggio)
- Spanish Stata Users Group meeting, Madrid, Spain. 2013. “Implementing the mutual information index in Stata”
- Research seminar, Institut für Volkswirtschaftslehre, University of Graz. July 2013. “Treatment Effect Identification Using Alternative Parallel Assumptions” (with I. Reggio)
- Research seminars and Conferences in Economics and Econometrics, Dept of Economics, University of Geneva. September 2012. “A Simple Regression Model for the Policy Effect Identification Using Alternative Diff-in-Diff Assumptions” (with Reggio)
- Econometrics Seminar, Dept Fundamentos de Análisis Económico, Universidad de Alicante. May 2012. “The onset social science research of female labor market participation and the role of the mothers” (with Machado and Carro)
- XXXV Simposio de la Asociación Española de Economía (SAEe), Madrid 2010. “The Onset of Female Labor Market Participation and the Role of Intergenerational Human Capital Transmission” (with Machado and Carro)
- PET10 Annual Conference of the Association of Public Economic Theorists, Istanbul, Turkey, 2010, “The statistical properties of the mutual information index of multi-group segregation” (with Ruiz-Castillo)
- XXXIV Simposio de la Asociación Española de Economía (SAEe), Valencia 2009. “The statistical properties of the mutual information index of multi-group segregation” (with Ruiz-Castillo)
- New frontiers in the field of segregation measurement and analysis, Suiza, 2007, “The statistical properties of the mutual information index of multi-group segregation” (with Ruiz-Castillo)
- XXI Jornadas de Economía Industrial, Bilbao, 2005, “Can we measure hospital quality from physicians' choices?” (with Machado and Romero-Medina)
- 42nd Annual Meeting of the Western Regional Science Association Tucson, USA, 2003, “A Farm-Level Study on the Effects of Transport Infrastructure Improvements on Agricultural Output” (with Holl)
- 4th IRSA International Conference, Bali, Indonesia, 2002. “A Farm-Level Study on the Effects of Transport Infrastructure Improvements on Agricultural Output” (with Holl)
- IV Encuentro de Economía Aplicada, Spain, 2001. “Geographical Specialization in Spanish Agriculture Before and After Integration in the EU” (with San-Juan)
- World Congress of the Econometrics Society, Seattle, USA, 2000. “External Factors in Emerging Market Recoveries An Empirical Investigation” (with Siotis).

- Latin-American Congress of the Econometrics Society, Cancún, Mexico, 1999. “A Nonparametric Decomposition of the Mexican American Average Wage Gap”.
- German Labor Market Conference, Berlin, 1999, Discussant.
- XII Simposio de Moneda y Crédito, Madrid, Spain, 1999, “Retos de la Unión Económica y Monetaria un gigante con pies de barro” (with Siotis).

RESEARCH GRANTS, SCHOLARSHIPS AND INTERNSHIPS

Research Grants

- 2021: “Teen childbearing in Latin America: the mother-daughter link”. CAF Development Bank of Latin-America. Project head: Matilde P. Machado.
- 2020-2023: “Procesos de exclusion social: segregacion de genero y politica sanitaria”. Spanish Ministry of Science and Innovation. Project head: Ricardo Mora.
- 2016-2018: “Individual decisions and economic and social development: Empirical applications to family economics, labour economics, and industrial organization”. Spanish Ministry of Science and Innovation. Project head: Raquel Carrasco.
- 2013-2015: “Individual decisions and economic and social development: Empirical applications to family economics, labour economics, and industrial organization”. Spanish Ministry of Science and Innovation. Project head: Raquel Carrasco.
- 2010-2012: “Individual decisions and economic and social development: Empirical applications to family economics, labour economics, and industrial organization”. Spanish Ministry of Science and Innovation. Project head: Raquel Carrasco.
- 2006-2009 “Dynamic models, regimes and institutions. Applications to managerial behaviour, labour economics and growth theory.” Spanish Ministry of Education. Project head: César Alonso.
- 2007-2009 “The onset of female labor market participation and the role of intergenerational human capital transmission,” Funding Institution: Fundación Ramón Areces. Project head: Ricardo Mora.
- 2005-2006 “Determinantes de la Elección de carreras universitarias en el Comunidad de Madrid”, Funding Institution: Comunidad de Madrid. Project head: Ricardo Mora.
- 2004-2006, “Medición de la calidad relativa de hospitales mediante las elecciones de las plazas de médicos internos residentes (MIR).” Funding Institution: Fundación Ramón Areces. Project head: Matilde P. Machado.
- 2001-2003, “Modelos dinámicos, regímenes e instituciones. Aplicaciones al mercado de trabajo y organización industrial”, Funding Institution: Spanish Ministry of Education. Project head: César Alonso.
- 2000-2004, “Efectos de la liberalización del comercio mundial y de los cambios en la Política Agraria Común”, Funding Institution: Spanish Ministry of Agriculture. Project head: Carlos San-Juan.
- 2000-2003, “Comportamiento estratégico en la preinscripción universitaria en la Comunidad de Madrid”, Funding Institution: Comunidad de Madrid. Project Head: Ricardo Mora.
- 1997-1999, “Discriminación salarial y segmentación ocupacional de la mujer en España”, Funding Institution: Spanish Ministry of Labor. Project head: Ricardo Mora.

OTHER PROFESSIONAL ACTIVITIES

Anonymous Refereeing:

The Review of Economic Studies, International Economic Review, Journal of Applied Econometrics, Labour Economics, Journal of Economic Inequality, Journal of Economic Geography, Sociological Methodology, PLOS ONE, American Journal of Education, Review of Income and Wealth, Review of International Economics, Research on Economic Inequality, Stata Journal, International Game Theory Review, Social Indicators Research, Social Science Research, Regional studies, regional science, Sociological Methods & Research, Eastern Economic Journal, Contemporary Economic Policy, SERIEs, Investigaciones Económicas, Spanish Economic Review.

Supervised Thesis: *Nieves Valdés (2009), Yunrong Li (2014), Bing Xu (2017), Federico Curci (2019), Ursula Mattioli (2019)*

Scholarships & Internships

- 1993-1996, Postgraduate Studies at London School of Economics. Funding: Bank of Spain
- Sep 1991/Jul 1993, Postgraduate Studies on Monetary Economics at Centro de Estudios Monetarios y Financieros (CEMFI, Madrid). Funding: CEMFI
- Jul 1992/Aug 1992, Internship at Servicio de Estudios. Bank of Spain, Madrid.

Departmental Services

- *Assistant Director* for Undergraduate Teaching. (2009-2011 and 2014-2017)
- *Informatics Officer* (1999-2001).
- *International Student Program Coordinator* (1997-1999).

Organizations of Meetings and seminars

- Co-Organizer of the Econometrics and Applied Economics Workshop (2006-2009).
- Spanish Stata Users Group meeting, Madrid, Spain. 2015, 2017