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Education

- Ph.D. in Economics, Universidade de Vigo, Sept 1993. Supervisor: Prof Inés Macho.
- B.Sc. in Economics, Universidade Santiago de Compostela, 1987.

Academic Positions, Appointments and Awards

- Visiting Profesor at Universidad Autónoma de Barcelona, Universidad Carlos III de Madrid and ITAM (Mx)
- Spanish Research System. 5 Sexenios: 1991-1996, 1997-2002, 2003-2008 , 2009-2014 and 1995-2005 (R&D).

Submitted

- *Policy Distortions and Aggregate Productivity with Endogenous Establishment-Level Productivity* with M. Mendes-Tavares and D. Restuccia, NBER Working Paper No. 23339 Issued in April 2017, Revised in February 2019

Published Papers

Q1, Q2 , Q3 and Q4 JCR Impact Factor

52. Input controls and overcapitalization: a general equilibrium analysis of the Spanish Mediterranean Sea fisheries, with J. Sempere, R. Prellezo and L. Taboada-Antelo. *Fisheries Research* Volume 228, August 2020, 105559 [2019 Impact Factor: 2.147. Q2 (18/53), Fisheries]

51. Firing Costs, Misallocation, and Aggregate Productivity (with D. Restuccia and M. M.Tavares). *Journal of Economic Dynamics and Control* 68, 60-81 (2019) [2019 Impact Factor: 1.204. Q3 (214/373), Economics]

50. A bayesian estimation of the economic effects of the Common Fisheries Policy on the Galician Fleet: a dynamic stochastic general equilibrium approach, (with E. Colla-de-Robertis, F.J. García-Cutrín, M. J. Gutiérrez and R.Prellezo). *Ocean and Coastal Management* 167, 137-144 (2019) [2019 Impact Factor: 2.482. Q2 (33/94), Water Resources]

49. (Blue) growth accounting in European Union small scale fleets, (with J. Guillen and R.Prellezo). *Marine Policy* 100, 200-206 (2019) [2019 Impact Factor: 3.228. **Q1** (7/95), International Relations]

48. Mitigating unwanted catches in the Southern Iberian Hake Stock fisheries: Improving fishing technology vs market control policies (with F.J. García and M.J. Gutiérrez). *Scientia Marina* 82S1, 63-74 (2018) [2018 Impact Factor: 1.252. Q3 (68/108), Marine and Freshwater biology]

47. Integrated ecological–economic fisheries models—Evaluation, review and challenges for implementation (with Nielsen J.R., Thunberg, E., Holland D., Schmidt J.O., Bastardie F., Andersen J.L., Bartelings H., Bertignac M., Bethke E., Buckworth R., Carpenter G., Deng R., Dichmont C., Doering R., Esteban A., Frost H., Fulton E.A., García D., Gasche L., Gascuel D., Gourguet S., Groeneveld R.A., Guillen J., Guyader O., Hamon K., Hoff A., Horbowy J., Kaplan I.C., Lehuta S., Little, R., Lleonart J., Macher C., Mackinson, S., Mahevas S., Marchal, P. , Mato-Amboage R., Mapstone B., Maynou F., Merzéréaud M., Palacz A., Pascoe, S., Paulrud A., Prellezo R., Punt A., Quaas M., Ravn-Jonsen L., Sanchez S., Simons S., Thébaud O., Tomczak M., Ulrich C., Van Dijk D. , Vermard Y., Voss R., Waldo S). *Fish and Fisheries* 19, 1-19 (2018) [2017 Impact Factor: 6.999. **Q1** (2/50), Fisheries]

46. Endogenous Fishing Mortalities: a State-Space Bioeconomic Model (with F. J. García-Cutrín, M. J. Gutiérrez and E. Jardim). *ICES Journal of Marine Science* 74 (9), 2437–2447 (2017) [2017 Impact Factor: 2.906. **Q1** (7/50), Fisheries]

45. The Productivity Cost of Sovereign Default: Evidence from the European Debt Crisis (with J. Alonso-Ortiz and E. Colla). *Economic Theory* 64(4), 611–633 (2017) [2017 Impact Factor: 1.108. Q3 (178/353), Economics]

44. ITQs, Firm Dynamics and Wealth Distribution: Does full tradability increase inequality? (with J. Sempere). *Environmental and Resource Economics* 68(2), 249-273 (2017) [2017 Impact Factor: 1.961. **Q1** (84/353), Economics]

43. The social cost of fishery subsidy reforms, (with F. J. García-Cutrín, R. Prellezo and J. Sempere). *Marine Policy* 83, 236–246 (2017) [2017 Impact Factor: 2.109. **Q1** (18/85), International Relations]

42. A dynamic economic equilibrium model for the economic assessment of the fishery stock-rebuilding policies (with R. Prellezo, J. Sempere and L.T. Antelo). *Marine Policy* 81, 185–195 (2017) [2017 Impact Factor: 2.109. **Q1** (18/86), International Relations]

41. Bioeconomic multi-stock reference points as a tool for overcoming the drawbacks of the landing obligation (with D. García, R. Prellezo, P. Sampedro, J. Castro, S. Cerviño, J García-Cutrín and M. J. Gutiérrez). *ICES Journal of Marine Science* 74(2), 511–524 (2017) [2017 Impact Factor: 2.906. **Q1** (7/50), Fisheries]

40. To shape or to be shaped: engaging stakeholders in the fisheries management advice (with P. Sampedro, R. Prellezo, D. García, S. Cerviño, J. Torralba, J. Touza, J. García-Cutrín and M.J. Gutiérrez). *ICES Journal of Marine Science* 74(2), 487–498. IJMS Editor's Choice (2017) [2017 Impact Factor: 2.906. **Q1** (7/50), Fisheries]

39. Fishers' perceptions and the economic impact of the EU discards policy on small-scale fisheries in Galicia (NW Spain) (with S. Villasante, C. Pita, G.J. Pierce, C. Pazos Guimeráns, J. García Rodrigues, M. Antelo, J. García Cutrín, L. C. Hastie, R. Sumaila and M. Coll). *Ecological Economics* 130: 130-138 (2016) [2016 Impact Factor: 2.965. **Q1** (28/347), Economics]

38. To land or not to land: How stakeholders perceive the zero discard policy in European small-scale fisheries? (with S. Villasante, G.J. Pierce, C. Pita, C. Pazos Guimeráns, J. García Rodrigues, M. Antelo, J. García Cutrín, L. C. Hastie, R. Sumaila and M. Coll). *Marine Policy* 71: 166–174 (2016) [2016 Impact Factor: 2.235. **Q1** (13/86), International Relations]

37. On the Benefits of Including Age-structure in Harvest Control Rules (with R. Mato-Amboage). *Environmental and Resource Economics* 64(4): 619-641 (2016) [2016 Impact Factor: 1.582. Q2 (94/347), Economics]

36. Reconciling yield stability with international fisheries agencies precautionary preferences: the role of non constant discount factors in age structured models, (with F. J. García-Cutrín, M. J. Gutiérrez and J. Touza). *Fisheries Research* 173(3): 282–293 (2016) [2016 Impact Factor: 2.185. **Q1** (11/50), Fisheries]

35. Pulse Fishing and stock uncertainty (with L. Nøstbakken and M. Perez). *Environmental and Resource Economics*, 59(2): 257-274 (2014) [2014 Impact Factor: 1.426. **Q1** (76/333), Economics]

34. Economic Effects of Global Warming under Stock Growth Uncertainty: The European Sardine Fishery (with M.J. Gutiérrez and S. Villasante). *Regional Environmental Change*, 14 (1): 195-205 (2014) [2014 Impact Factor: 2.628. **Q1** (23/93), Environmental Studies]

33. The dynamics of an animal-vegetation system: sheep farming (with A. Skonhoft). *Natural Resource Modeling* 27(1): 80-103 (2014) [2014 Impact Factor: 1.196. Q2 (43/99), Mathematics, Interdisciplinaty applications]

32. Eficiencia y equilibrio en un modelo de formación de derechos de propiedad (with P. Pujolas and J. Sempere). *El Trimestre Económico*, vol LXXXI(3), n^{a} 323, julio-septimebre: 579-593 (2014) [2014 Impact Factor: 0.130. Q4 (319/333), Economics]

31. Self-Fulfilling Crises with Default and Devaluation (with E.L. Giménez and F.X. Lores). *Economic Theory*, 53(3): 499-535 (2013) [2013 Impact Factor: 1.814. **Q1** (57/333), Economics]

30. Selectivity, Pulse and endogenous life span in Beverthon Hold models (with M. J. Gutiérrez and L. T. Antelo). *Environmental and Resource Economics*, 54(1):139–154 (2013) [2013 Impact Factor: 1.703. **Q1** (65/333), Economics]

29. Credible Enforcement Policies under illegal fishing: Does ITQs induce to reduce the gap between approved and proposal TACs? (with S. Villasante and R. Trelles). *AMBIO: A Journal of the Human Environment*, 42(8): 1047-1056 (2013) [2013 Impact Factor: 2.973. **Q1** (51/216), Environmental Science]

28. Endogenous fisheries management in a stochastic model: Why do fishery agencies use TACs along with fishing periods? (with M. J. Gutiérrez). *Environmental and Resource Economics*, 53(1): 25-59 (2012) [2012 Impact Factor: 1.795. **Q1** (59/333), Economics]

27. "log MSY" and optimal HCR: new tools for the implementation of the CFP (with M. J. Gutiérrez, S. Cerviño and L.T. Antelo). *Ocean and Coastal Management*, 70: 48-53 (2012) [2012 Impact Factor: 1.597. Q2 (33/80), Water Resources]

26. The Common Fisheries Policy: an enforcement problem (with S. Villasante and S. Cerviño). *Marine Policy*, 36(6): 1309–1314 (2012) [2012 Impact Factor: 2.230. **Q1** (5/83), International Relations]

25. Pulse vs. Optimal Stationary Fishing: The Northern Stock of hake (with M. J. Gutiérrez and L. T. Antelo). *Fisheries Research* 121-122: 51-62 (2012) [2012 Impact Factor: 1.695. Q2 (17/50), Fisheries]

24. Reference points based on dynamic optimization: a versatile algorithm for mixed-fishery management with bio-economic age-structured models (with S. Cerviño and M. J. Gutiérrez). *ICES Journal of Marine Science*, 69(4): 660–669 (2012) [2012 Impact Factor: 2.277. **Q1** (7/50), Fisheries]

23. Policy Distortions and Aggregate Productivity: The Role of idiosyncratic shocks (with P. Pujolas). *The B.E. Journal of Macroeconomics*: Vol. 11: Iss 1(Topics), Article 35. (2011) [2011 Impact Factor: 0.321. Q4 (259/321), Economics]

22. A model of fishing periods applied to the European sardine fishery (with M. D. Garza and M. M. Varela). *Fisheries Research*, 109(1): 16-24 (2011) [2011 Impact Factor: 1.586. Q2 (18/50), Fisheries]

21. Lessons from the Long-Term Management Plan for Northern Hake stock: Could the economic assessment have accepted it? (with M. J. Gutiérrez). *ICES Journal of Marine Science*, 68(9): 1937-1941 (2011) [2011 Impact Factor: 2.007. **Q1** (12/50), Fisheries]

20. Gestión de Pesquerías: críticas y alternativas (with M. J. Gutiérrez, S. Cerviño and L. T. Antelo). *Matematicalia*, Volumen 7, núm. 3 (2011)

19. An endogenous bio-economic optimization algorithm to evaluate recovery plans: an application to southern hake (with M. J. Gutiérrez and S. Cerviño). *ICES Journal of Marine Science*, 67(9): 1957-1962 (2010) [2010 Impact Factor: 1.808. **Q1** (10/46), Fisheries]

18. The Evaluation of Fisheries Management: A Dynamic Stochastic Approach (with M. J. Gutiérrez). *Moneda y Crédito*, 228: 113-133, (2009)

17. Demografía, educación, cambio estructural y convergencia: Galicia España 2000-2050 (with F. X. Lores). *Revista de Economía Aplicada*, 43, Vol. XV (Invierno):123-144 (2007) [2009 Impact Factor: 0.125. Q4 (234/247), Economics]

16. Why Fertility and Female Participation Rates are Positively Correlated across OECD countries? (with L. Fuster). *International Economic Review*, 47(4): 1187-1222 (2006) [2006 Impact Factor: 1.031. Q2 (51/175), Economics]

15. The Role of Agriculture in Aggregate Business Cycles (with D. Restuccia). *Review of Economic Dynamics*, 9(3): 455-483, (2006) [2006 Impact Factor: 0.835. Q2 (71/175), Economics]

14. The Optimality of the Common Fisheries Policy: the Northern Stock of Hake (with M. J. Gutiérrez). *Spanish Economic Review*, 8(1): 1-21, (2006) [2010 Impact Factor: 1.143. Q2 (90/305), Economics]

13. La reforma del Principio de Estabilidad Relativa en la Política Pesquera Común: el caso del caladero norte de merluza (with M. J. Gutiérrez). *Revista de Economía Aplicada*, 36, Vol. XII (Invierno): 113-146, (2004)

12. La investigación española en economía. 1995-1999 (with G. Bergantiños and P. Palome). *Investigaciones Económicas* Vol XXVI (2): 373-392, (2002)

11. Seeking θ's Desperately: Estimating the Distribution of Consumers Types under Increasing Block Rates (with F. Castro and P. Delicado). *Journal of Regulatory Economics*, 22(1): 29-58, (2002) [2002 Impact Factor: 0.648. Q2 (67/166), Economics]

10. A Note on the Optimal Structure of Production (with M. A. de Frutos). *Journal of Economic Theory*, 89(2): 234-246, (1999) [1999 Impact Factor: 0.778. Q2 (45/165), Economics]

9. Capital humano y crecimiento económico. Evidencia empírica y situación española en relación a la OCDE (with A. de la Fuente). *Moneda y Crédito*, 203: 43-84, (1996)

8. Good Morning Maastricht: Déficit, debeda pública e programa de converxencia. *Revista Gallega de Economía*, 5: 229-236 (1996)

7. Ciclos, crecimiento y convergencia de la economía gallega (with A. Meixide y M. Pousa). *Papeles de Economía Española*, Vol. Eco. de las CC.AA (16): 17-32, (1996)

6. An Optimal Pooling Nonlinear Tariff. *Revista Española de Economía*, Vol. monográfico de regulación: 23-39 (1995)

5. Regulación e Información Asimétrica (with L. Bru). *Cuadernos Económicos del I.C.E.*, 57: 1-28, (1994)

4. Selección adversa: una introducción al diseño de mecanismos. *Estudios de Economía*, 20: 253-301. (1993)

3. Investigación en economía pesquera: el estado de la cuestión en España (with M. M. Varela, C. Pazo y J. Suris). *Revista de Estudios Agrosociales*, 150: 9-99, (1989)

2. Concentración y heterogeneidad en la demanda: el caso del marisqueo en Galicia (with M. M. Varela, C. Pazo y J. Suris). *Revista de Estudios Agrosociales*, 149: 9-49, (1989)

1. Análisis Estructural de la flota (with M. M. Varela y J. Suris). *Información Comercial Española*, (Enero-Febrero): 36-54, (1988)

Master Thesis

- *Mato Amboage, Rosa "Management Strategy Evaluation in Age-structured Fishery Models".* (joint with Caterina Calsamiglia), International Doctorate in Economic Analysys (IDEA), UAB (2014)
- *Sánchez Llamas, Eduardo "A Comparision Between Stock Assessment Methods and Assessment of Management Scenarios: A Practical Study Case for European Hake in GSA's 12-16 and Calculation of Reference Points in Decreasing Trend Populations".* (joint with Miguel Bernal), Gestión Pesquera Sostenible, UA (2017)

(Selected) Technical Reports

- Edited by Ernesto Jardim & Finlay Scott (ed) *Scientific, Technical and Economic Committee for Fisheries. Multiannual plan for demersal fisheries in the Western Mediterranean (STECF- 16-21)*
- E. Jardim and I Mosqueira (ed) *Scientific, Technical and Economic Committee for Fisheries. Multi-annual management plans SWW and NWW (STECF-15-08)*
- J. R. Nielsen and J. Schmidt (ed) *Report of the Study Group on Integration of Economics, Stock Assessment and Fisheries Management SGIMM, (2013)*
- John Simmonds, Santiago Cerviño, Jose Maria Da Rocha M. Paz Sampedro and Cristina Silva (Ed) *Scientific, Technical and Economic Committee for Fisheries. Impact Assessment of multi-annual plans for Southern hake, angler fish and Nephrops (STECF-11-06)*
- Jardim E. & Hölker F. (ed) *Scientific, Technical and Economic Committee for Fisheries. Report of Working Group on balance between resources and their exploitation (SGBRE). Northern hake long-term management plan impact assessment (SGBRE-07-05).*
- Jardim E. & Hölker F. (ed) *Scientific, Technical and Economic Committee for Fisheries. Report of Working Group on balance between resources and their exploitation (SGBRE). Northern hake long-term management plans (SGBRE-07-03).*

(Selected) Funded Research Projects

- REFORCE: Resilience mechanisms for risk adapted forest management under climate change. PCIN-2017-054 and FP7 ERA-NET Sumforest. 01/05/2017-30/04/2020.
- MINOUW: Science, Technology, and Society Initiative to Minimize Unwanted Catches in European Fisheries. European Commission. 01/03/2015-28/02/2019. (H2020-SFS-2014-2, number 634495)
- MYFISH: Maximising Yield of fisheries while balancing Ecosystem, Economic and Social concerns, European Commission. 01/03/2012-28/02/2016. (MYFISH, FP7-KBBE-2011-5, number 289257)
- Avances en la gestión sostenible de recursos naturales basada en modelos bioeconómicos, Spanish Ministry of Economy and Competitiveness 2016/2020 (ECO2016-78819-R)
- Grupos de Referencia Competitiva, Xunta de Galicia 2015/2018 (GRC 2015/14)

Journal Refereeing

American Economic Review, American Economic Journal: Macroeconomics, Canadian Journal of Economics, Computational Economics, Journal of Economic Dynamics and Control, Ecological Modelling, Economic Modelling, Environmental and Resource Economics, Environmental Modelling & Software, Fisheries Research, ICES Journal of Marine Sciences, Latin American Economic Review, Marine Ecology Progress Series, Marine Resource Economics, Natural Resource Modeling, Ocean and Coastal Management, Population Studies, Review of Economic Dynamics, SERIES, Trimestre Económico.