

Luis Fernández Lafuerza

Banco de España, Alcalá 48, 28014 Madrid, Spain
luisg.fernandez[at]bde.es

WORK EXPERIENCE

- Economist, Banco de España, Financial Stability and Macroprudential Policy Department 2019 – Present
- Consultant, The World Bank, Development Research Group, Macroeconomics and Growth 2017 – 2019
- Research Associate, The University of Manchester, Department of Theoretical Physics 2013 – 2015

EDUCATION

- Master in Economics and Finance, CEMFI. 2015 – 2017
"Luis Ángel Rojo" Prize to the best student in the 2017 Class
- PhD in Physics, University of Balearic Islands and CSIC 2009 – 2012
- Master in Physics, University of Balearic Islands 2008 – 2009
- Bachelor in Physics, University of Zaragoza 2003 – 2008

COMPUTING SKILLS

C, Matlab, Stata, R, SLQ (basic).

LANGUAGES

Spanish (native), English (advanced)

ADDITIONAL EXPERIENCE

Presentations in over 15 international scientific conferences. Referee for the following Journals: Physical Review E, Physical Review Letters, PloS One, Europhysics Letters, Fluctuations and Noise Letters. Member of the commission for the elaboration of the Master in Complex Systems at the University of Balearic Islands.

PUBLICATIONS

- Estimating the cost of equity of financial institutions. L. Fernández Lafuerza and J. Mencía. Banco de España, Financial Stability Bulletin, 40, pp. 47-66 (2021).
- Recent developments in the cost of bank equity in Europe. L. Fernández Lafuerza and J. Mencía. Banco de España, Economic Bulletin 4/202, Analytical Article. (2020)
- Staged models for interdisciplinary research. L.F. Lafuerza, L. Dyson, B. Edmonds, A.J. McKane. Plos One 11(6): e0157261 (2016).
- The role of demographic stochasticity in a speciation model with sexual reproduction. L.F. Lafuerza, A.J. McKane. Phys. Rev. E 93, 0302121 (2016)
- Simulating non-Markovian stochastic processes. M. Bogu, L.F. Lafuerza, R. Toral, M.A. Serrano. Phys. Rev. E 90, 042108 (2014).
- On the role of heterogeneity in stochastic interacting-particle systems. L.F. Lafuerza, R. Toral. Scientific Reports 3, 1189 (2013).
- Stochastic description of delayed systems. L.F. Lafuerza, R. Toral. Phil. Trans. R. Soc. A 371 201204858 (2013).
- Exact solution of a stochastic protein dynamics model with delayed degradation. L.F. Lafuerza, R. Toral. Phys. Rev. E 84, 051121 (2011).

- Role of delay in the stochastic creation process. L.F. Lafuerza, R. Toral. Phys. Rev. E 84, 021128 (2011).
- Evolution of Surname Distribution under Gender-Equality Measures. L.F. Lafuerza, R. Toral. PloS one 6(4): e18105 (2011).
- Non-universal Results Induced by Diversity Distribution in Coupled Excitable Systems. L.F. Lafuerza, P. Colet, R. Toral. Physical Review Letters 105, 084101 (2010).
- On the Gaussian Approximation for Master Equations. L.F. Lafuerza, R. Toral. Journal of Statistical Physics 140: 917-933 (2010).
- Residential segregation and cultural dissemination: An Axelrod-Schelling model. C. Gracia-Lzaro, L.F. Lafuerza, L.M. Flora, Y. Moreno. Physical Review E 80, 046123 (2009).

Working Papers:

- Swept by the Tide? The International Comovement of Capital Flows. L. F. Lafuerza and L. Serven. Policy Research Working Paper, No. 8787. World Bank, Washington, DC (2019).
- The Network View: applications to international trade and bank exposures. L.F. Lafuerza, G. de Cadenas-Santiago. BBVA Research Working Paper (2017).