

# Francisco Javier Rodríguez Román

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**Employment**      **University of Cagliari**      June 2021-present  
*Post-doctoral Researcher, Department of Economics and Business*  
**University of Edinburgh**      October 2020-June 2021  
*Stipendiary Fellow, School of Economics*

**Education**      **Universidad Carlos III de Madrid**      June 2021  
*Ph.D in Economics*  
**Universidad Carlos III de Madrid**      September 2016  
*Master in Economic Analysis*  
**Barcelona Graduate School of Economics**      July 2013  
*Master in Economics and Finance*  
**Universidad de Costa Rica**      August 2012  
*B.A. in Economics*

## References

**Alessio Moro**      **Matthias Kredler** (Ph.D advisor)  
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**Fields**      Macroeconomics, Family Economics, Demographic Economics, Labor Economics.

**Working papers**      **The Sex Ratio, Marriage, and Bargaining: a Look at China** (submitted)  
*Nominated for best early-career paper at the 1st International Workshop on the Chinese Development Model (Barcelona, Spain, July 2022).*  
In this paper I develop a model of marriage, bargaining and time allocation to assess the quantitative importance of changes in the sex ratios on paid work, housework, leisure and assortative mating. I then calibrate the model with Chinese data, as the country has been experiencing a surge in boy births relative to girls' since the 1980s. I find that changes in the sex ratio explain around half of the changes in married women paid work and leisure time between 1990 and 2010. Moreover, I find that the effect of the sex ratio operated mainly through bargaining within the household, and very marginally via marital sorting. Moreover, low and medium skilled women are the ones that have seen the largest improvement in their bargaining position.

**Quantifying the Impact of Childcare Subsidies on Social Security** (joint with Lidia Cruces)  
Female labour force participation and fertility levels directly impact social security, especially when it relies on a pay-as-you-go scheme. In this paper, we quantify the

impact of childcare subsidisation policies on a PAYG social security system. We build an overlapping generations model in which women decide how many children to have, the allocation of childcare time among different alternatives and their labour force participation along their life cycle. We calibrate the model to Spanish data and use it to experiment with different childcare subsidisation policies. We find that childcare subsidies increase mother's labour force participation and fertility minimally. Therefore, they have a negative effect on the present value of social security budget balance.

**Work in progress** **Child subsidies, female labour force participation and fertility: from short to long-run** (with Lidia Cruces)  
**A Theory of Structural Change, Home Production and Leisure** (with Fenicia Cossu, Alessio Moro and Silvio Tunis)

**Presentations** **2022:** IX Workshop on Structural Transformation and Macroeconomic Dynamics (Cagliari, Italy), 1st International Workshop on the Chinese Development Model (Barcelona, Spain) **2021:** Macroeconomics Working Group at the European University Institute (online), 34th Annual Conference of the European Society for Population Economics (online), 2nd Brazilian Meeting in Family and Gender Economics (online), CRENoS Workshop (Asinara, Italy), 46th Symposium of the Spanish Economic Association (Barcelona, Spain). **2020:** Virtual Macro-Development-Trade-Environment Reading Group Workshop at Iowa State University (online). **2019:** XXIV Workshop on Dynamic Macroeconomics (Vigo, Spain), Macro Seminar at the University of Mannheim, 44th Symposium of the Spanish Economic Association (Alicante, Spain).

**Scholarships and awards** SAEe PhD grant 2019  
FPI Doctoral Scholarship (Spanish Ministry of Science) 2016-2020  
UC3M Economics Department scholarship 2014-2016  
Bolsa Inci (IMPA, Brazil) 2012  
Beca 10 Universidad de Costa Rica 2007

**Teaching experience** **As Course Organizer at The University of Edinburgh**  
International Economics Fall 2020  
  
**As TA at Universidad Carlos III de Madrid**  
Industrial Organization I: Theory and Regulation (graduate) Fall 2018  
Instructor: Matilde Machado  
Quantitative Microeconomics (undergraduate) Fall 2017 and 2018  
Instructors: Iliana Reggio and Ricardo Mora  
Principles of Economics (undergraduate) Spring 2017, Fall 2016 and 2018  
Instructors: Antonio Romero, Nicolas Motz and Asier Mariscal  
Dynamic Macroeconomics (undergraduate) Spring 2016, 2017 and 2018  
Instructor: Luisa Fuster  
International Trade (undergraduate) Fall 2017  
Instructor: Miguel Marinas

**Software and programming** Stata, Matlab, SPSS, Eviews, Python.

**Other** Refereeing: Journal of Population Economics, Economía (Journal of LACEA).  
Languages: Spanish (native), English (fluent), Italian (intermediate).  
Citizenship: Costa Rican.