December 1, 2017

Universidad del Rosario)
Faculty of Economics
Bogotá, Colombia

I am writing to apply for Professor position at the Universidad del Rosario.

I am an economist with a strong interest in macroeconometric issues. The research topics that I have recently worked on include i) Applied time series econometrics; ii) Effects of oil price shocks on macroeconomic variables in the euro area and its main countries and iii) Analysis and forecasts of macroeconomic variables (especially in the euro area and Spain). The findings of these research have served as a basis for papers that have been accepted for publication in peer-reviewed journals.

I have worked for twelve years as a Research Analyst at University Carlos III de Madrid, applying different time series techniques in the analysis and forecasts of macroeconomic variables, including Bottom-Up procedures in hierarchical structures. In such capacity, I was in charge of designing and implementing econometric models, as well as of writing periodical reports in Spanish and English.

As you can see on my resume, I have received a bachelor's and master degrees in economics from the Universidad Nacional de Colombia, and doctorate degree in economics from the Universidad de Salamanca. My thesis work contributes to better understand the effects of oil price changes on consumer and industrial prices in the euro area and its main economies. It shows the relevance of assuming oil prices as an exogenous variable, supporting the use of ARIMA models, transfer functions and restricted vector autoregressive models. This methodology allows us to forecast oil price under different scenarios and to assess the risk of deflation. Furthermore, the resulting analysis shows that the effect of oil price changes on inflation does not come from higher industrial costs but rather depend on the reaction of consumers.

Based on my previous research, I am currently working in two issues: (i) investigating the (negative) time-varying relationship between oil price changes and exchange rates in the euro area, and (ii) evaluating the sensitivity of inflation in the 19 euro area members to alternative scenarios about future oil price and the consequences of the common monetary policy on inflation convergence and price competitiveness.

In short, I enjoy to investigate with data, in particular, describe data through models, using econometric techniques (ARIMA, transfer function, VAR, Smoothing, Bayesian analysis, etc.) and **R** programming language. I consider that the final step should be twofold: (i) prepare clear and affordable presentations of the results and (ii) submit the results to peer-reviewed journals.

I have attached for your review my resume and three published papers (chapters of my thesis work). I look forward to hearing from you at your earliest convenience.

Sincerely,

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