Daniel Parra

Researcher

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Research profile website

Corporate profile website

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Qualities



Professional Activities



Research Interests

Macroeconomics, Climate Change, Applied and Financial econometrics.

Education

2016-2018 M.Sc. in Economics (Summa Cum Laude)

Universidad Nacional de Colombia

Thesis with honors distinction: Monetary Policy transmission in

Colombia: TVP-VAR approach (in Spanish)

2009-2014 M.Sc. in Applied Mathematics (Cum Laude)

Universidad Nacional de Colombia

Thesis: Estimating the exchange rate peso-dollar volatility using a

stochastic volatility model (in Spanish)

2003-2008 B.A. in Economics Colombia

Universidad Nacional de Colombia

2000-2003 Technologist in Data Systematization Colombia

Universidad Distrital Francisco José de Caldas

Work Experience

2018-current Researcher

Central Bank of Colombia

Colombia

Colombia

Monetary Policy and Economic Information Division

• Provide intellectual leadership by bringing new ideas into policy discussions and contributing to setting the agenda.

- Interpretation and analysis of quantitative and qualitative results of different research projects.
- · Develop econometric applications for forecasting in R Shiny.

2022 Visiting researcher

Geneva Graduate Institute (IHEID)

Bilateral Assistance and Capacity Building for Central Banks.

- Develop a research work under the supervision of Luca Benati: "Estimating the Output Gap After COVID: An Application to Colombia"
- Participate in external trainings in Study Center Gerzensee: Course "Bayesian Methods for Empirical Macroeconomics" with professor Gary Koop.

2016-2018 Lead Economist Advisor

Central Bank of Colombia

Monetary Policy and Economic Information Division

- Advise the Governor and the Board of Directors on topics related to Monetary Policy and Colombian GDP perspectives.
- Support the preparation of policy papers and presentations for the Governor and the Board of Directors.

2014-2016 Senior Economist

Central Bank of Colombia

Economic Studies Division

- In charge of one of the most important models for making monetary policy decisions (Mechanisms Transmission Model).
- Provide technical assistance in the field of monetary policy planning and evaluation and formulation of strategies (scenarios).
- Member of the inter-institutional committee on issues of national accounts and economic measurement between the Colombian Ministry of Finance, the Colombian National Institute of Statistics (DANE) and the Central Bank.

2012-2014 Specialized Economist

Central Bank of Colombia

Economic Studies Division

- Develop quarterly reports on Colombian inflation and GDP outlook.
- · Develop econometric tools and its assessment.
- · Set up, calibrate and maintain the econometric models for inflation and GDP forecast.

Awards and Recognitions

Top 28% Latin America Research IDEAS RePEc ranking

(2016-17) Scholarship in graduated studies in exchange for teaching activities, Universidad Nacional de Colombia

(2010) Employee award of Economic Studies Division Central Bank of Colombia (Banco de la República)

Programming Skills

Matlab

Eviews

RATS

Stata

C++

Python

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Other IT Skills

Microsoft Office

LaTeX

Bloomberg

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

2008-2012 Economist **Economic Studies Division**

Central Bank of Colombia

- · Analyze economic factors to determine relationships between international and regional trends and the Colombian economy.
- Monitor regional events to identify emerging economic trends and issues.
- Develop quarterly reports on international financial markets.

Teaching Experience

Lecturer

Universidad de los Andes

2021-current Microeconometrics

Universidad Nacional de Colombia

2020 Topics in Econometrics II 2019 Financial Econometrics 2017 Financial Econometrics 2016 **Econometrics II** 2011-2012 Topics in Econometrics I

2009-2011 Financial Econometrics

Universidad de la Sabana

2021 Programming for economist in R

2012-2016 Macroeconometrics

Teaching assistant

Universidad del Rosario

2011 Financial Risk Econometric Modelling

professor: Luis Fernando Melo

2009 Topics in Econometrics

professor: Luis Fernando Melo

2008 Financial Econometrics

professor: Luis Fernando Melo

Universidad de los Andes

2008 International Finance

professor: Ricardo Bernal

Peer Reviewed Publications

Extreme weather events and high Colombian food prices: A non-2022

stationary extreme value approach.

With Melo, L.F. and Orozco, C. Agricultural Economics, International Association of Agricultural Economists, vol. 53(1), pages 21-40,

November.

2020 Nonlinear relationship between the weather phenomenon El Niño and

Colombian food prices.

With Abril, D.S. and Melo, L.F. Australian Journal of Agricultural and

Resource Economics, 64(4), 1059-1086.

2018 An Exploration of t Money Demand in Colombia: A Non-Linear Ap-

proach (in Spanish)

With Ordoñez, D., Melo, L.F. Revista de Economía del Rosario, 21(1),

Impacts of weather anomalies on food prices in Colombia (in Span-2016

ish)

With Abril, D.S. and Melo, L.F. Ensayos sobre Política Económica,

34(80), 146-158.

2016 Impact of Holy Week on the Industrial Production Indexes by Sector

in Colombia (in Spanish)

With Abril, D.S. and Melo, L.F. Revista de Economía del Rosario, 19(1),

59-84.

2014 Relationship between financial system systemic risk and the real sec-

tor: A FAVAR approach (in Spanish)

With Cabrera, W.A. and Melo, L.F. Ensayos sobre Política Económica,

32(75), 1-22. (indexed in Scopus, Elsevier)

2014 Forecasts in a less volatile economy: the Colombian case (in Spanish)

With Cajiao, S. and Melo, L.F. Coyuntura Económica. Vol. XLIV, No. 2,

pp. 35-59. Fedesarrollo.

Referee Activities

Estudios de Economía

Revista Cuadernos de Economía

Revista Desarrollo y Sociedad

Revista de Economía Institucional

Revista de Economía del Caribe

Revista Ensayos Economía

Academic Referees

Prof. Luis Fernando Melo

Professor

Universidad de los Andes

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Senior Econometrician

Banco de la República

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Prof. Munir Jalil

Associate Professor of economics

Universidad Nacional de Colombia

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Executive Director-Chief Economist Andean Region at BTG Pactual

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Chapters in Books

2013

2019

| 2016 | Chapter 10 in book: Equitable, competitive and sustainable develop- |
|------|---|
| | ment of the agricultural sector in Colombia. (in Spanish) |
| | Editors: Cano, C.G., Iregui, A.M., Ramírez, M.T. and Tribín, A.M. |
| | Banco de Desarrollo de América Latina and Banco de la República. |
| 2015 | Chapter 17 in book: Monetary policy and financial stability in open |
| | small economies (in Spanish) |
| | |

Editors: Gómez, J.E. and Ojeda, J.N. Banco de la República. Chapters 1 and 2 in book: Capital flows, external shocks and policy responses in emerging countries. (in Spanish)

Editors: Rincón, H. and Velasco, A.M. Banco de la República.

Conference Presentations

| | and Colombian Food Prices |
|------|---|
| | Conference on Climate Change and its Impact in the Financial System |
| | Mexico City, Mexico, 5th and 5th December |
| 2019 | Nonlinear Relationship between the Weather Phenomenon El Niño |
| | and Colombian Food Prices |
| | XXIV Meeting of the Central Bank Researchers Network |
| | Madrid, Spain. 30th and 31th October |

Do the different types of capital flows respond to the same fundamen-2013 tals and in the same degree? Recent evidence for emerging markets Fourth BIS Consultative Council for the Americas Research Confer-

ence: Financial stability, macroprudential policy and exchange rates. Santiago, Chile. 25th and 26th April

Nonlinear Relationship between the Weather Phenomenon El Niño

2013-2016 Economic Seminars, Banco de la República, 8th April 2016 and 10th July 2013

Working papers

| 2023 | Estimating the Output Gap After COVID: An Application to Colombia |
|------|---|
| | With Granados, C. IHEID Working Papers 04-2023, Economics Sec- |
| | tion, The Graduate Institute of International Studies. |
| 2016 | Sectoral Production Indices Heterogeneity in the Colombian Manu- |
| | |

facturing Industry (in Spanish) With Abril, D.S., Melo, L.F. Borradores de Economía, 888, Banco de la República.

Do the different types of capital flows respond to the same fundamen-2012 tals and in the same degree? Recent evidence for emerging markets (in Spanish) With Arias, F., Garrido, D. and Rincón, H.

Borradores de Economía, 717, Banco de la República (English ver-

2012-current A list of other working papers can be found in my ideas repec profile

Certifications and courses

2022 Advanced Courses for Doctoral Students and Faculty Members 2022 Gerzensee, Switzerland

• Bayesian Methods for Empirical Macroeconomics Professors: Gary Koop.

2019 Global Initiative Program of the Bank of Korea Academy Seoul. Korea

 Forecast combination and methods of forecast evaluation Professors: Barbara Rossi.

2012 Centre for Central Banking Studies, Bank of England London, UK

 Applied Bayesian econometrics for central bankers Professors: Andrew Blake and Haroon Mumtaz.

2010-21 International Summer School in the Universidad de los Andes and the Universidad del Rosario Bogotá, Colombia

Introduction to Data Science (2021)
Professors: Jorge Gallego and Fernanda Sobrino

 Econometrics and Machine Learning: The new research frontiers in applied economy (2019)

Professors: Roberto Rigobon and Alvaro Riascos

• Topics on Liquidity in Macro Finance(2014) Professors: Pierre-Olivier Weill and Saki Bigio

International Economics(2010)
Professors: Roberto Rigobon and Rodrigo Suescún

2009-20 Short Courses in Banco de la República Bogotá,Colombia

Nowcasting and Measurement of Economic Activity (2020)
Professor: Boragan Aruoba

• Empirical Macroeconomics (2020) Professor: Christiane Baumeister

Macroeconomic forecasting and nowcasting with mixed frequency and large datasets

Professor: Massimiliano Marcellino

• Financial Frictions and the Macroeconomics(2012)

Professor: Lawrence Christiano

 Methods for applied macroeconomic research(2011) Professor: Fabio Canova

• The ABC of RBCs models: An introduction to dynamic macroeconomic models(2009) Professor: George McCandless

2012 International Monetary Fund (IMF)

Use of DSGE Models in the Process of Policy Formulation professors: Ruy Lama and Juan Pablo Medina.