

NICOLÁS RONDEROS PULIDO

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RESEARCH INTERESTS

Theoretical and applied econometrics; time series analysis; macroeconomics; applied finance; economics of education and health.

EDUCATION

Pontificia Universidad Javeriana

B.A. in Economics (2009–2014)

M.A. in Economics (2014–2016)

PhD in Economics (2019–2024)

ACADEMIC APPOINTMENTS

Colegio de Estudios Superiores de Administración (CESA, 2015 -Present)

Adjunct Professor. Undergraduate courses in Macroeconomics and Introduction to Economics.

Universidad Santo Tomás (2017 - 2025)

Teaching and Research Faculty. Courses taught at undergraduate and graduate levels: Econometrics I & II, Financial Econometrics, Microeconometrics, Statistics, Economic Engineering, Economic Outlook, Macroeconomics, Advanced Microeconomics, and Introduction to Economics. Faculty Research Lead and Coordinator of the Student Research Journal.

Pontificia Universidad Javeriana (2015 – Present)

Adjunct Professor. Courses taught at undergraduate, master's, and doctoral levels: Time Series Analysis, Probability, Econometrics, Statistics and Introduction to Economics.

PROFESSIONAL EXPERIENCE

EViews (2013 - Present)

Econometric Add-in Developer. Design and programming of advanced statistical and econometric routines at the research frontier.

Econometría Consultores (2015 - 2017)

Economic Analyst. Development of macroeconomic forecasts and consulting on a wide range of economic topics.

CERAC (2014)

Research Assistant.

BBVA Research (2013)

Intern. BBVA Research Colombia, Economic Research Department.

Independent Consultant (2014 – Present)

Development of consulting projects for public and private institutions.

PUBLICATIONS

- i. Ronderos, N. (2025). *The Modified Instrumental Variable (MIV) for Endogenous Instrumental Variables*. Journal of Statistical Theory and Applications, 24(4), 861-914.
- ii. Quintero, J., Ronderos Pulido, N., Logan, J., Ant, T., Bruce, J., & Carrasquilla, G. (2020). *Effectiveness of an intervention for Aedes aegypti control scaled-up under an inter-sectoral approach in a Colombian city hyper-endemic for dengue virus*. Plos one, 15(4), e0230486.
- iii. Ronderos, N., Poveda, A. C., & Carvajal, J. E. M. (2020). *Corruption and institutions: An analysis for the Colombian case*. Heliyon, 6(9), e04874.
- iv. Martínez, C. I. P., Poveda, A. C., & Ronderos, N. (2019). *An Analysis for New Institutionality in Science, Technology and Innovation in Colombia Using a Structural Vector Autoregression Model*. European Research Studies, 22(2), 218-228.
- v. Poveda, A. C., Carvajal, J. E. M., & Pulido, N. R. (2019). *Relations between economic development, violence and corruption: A nonparametric approach with DEA and data panel*. Heliyon, 5(4), e01496
- vi. Ronderos, N. (2018). *Variaciones previsibles del ingreso y su efecto sobre el consumo. Un análisis para la economía colombiana*. Revista CIFE: Lecturas de Economía Social, 20(33), 17-37.

WORKING PAPERS

- i. Ronderos, N (2025) "Fragmentation of Educational Trajectories among Rural Youth: An Aggregate Approach in Times of COVID-19" (submitted)
- ii. Salamanca, O. & Ronderos, N. (2024) "The Link between Oil Production and Sexually Transmitted Diseases: The Mediating Role of Prostitution in Colombia" (submitted)
- iii. Ronderos, N. (2024). *Estructura demográfica y su dependencia en los efectos de los choques estructurales del precio del petróleo: una estimación para la Unión Europea* Universidad Javeriana-Bogotá. (submitted)
- iv. Ronderos, N. (2024). *La influencia de la economía subterránea sobre el crecimiento económico: una relación a través del mercado laboral informal y el mercado de la cocaína en Colombia*. Universidad Javeriana-Bogotá. (submitted)
- v. Torres, E & Ronderos, N. (2021) "Las trampas de pobreza en Colombia, un enfoque marcoeconómico" (submitted)

COMPLETED RESEARCH

- i. Sandoval, S., & Ronderos, N (2017). *Alertas tempranas de burbujas de precios: una aplicación al mercado accionario colombiano.*
- ii. Ronderos, N. R. (2016). *Una visión unificada del contagio en mercados financieros: un enfoque causal en el dominio de la frecuencia* (No. 015127). Universidad Javeriana-Bogotá.
- iii. Ronderos, N & Suárez, J (2013). "Tasa de interés natural en Colombia". Observatorio económico. BBVA Research.

CERTIFIED SOFTWARE

- i. Ronderos, N. (2023) "*Non-invertible MA(q) simulator*" Software certificado. DNDA. EViews Add-in.
- ii. Ronderos, N. (2022) "*Cross spectral analysis*" Software certificado. DNDA. EViews Add-in.
- iii. Ronderos, N. (2020) "*Canova Hansen Tests*" Software certificado. DNDA. EViews Add-in.
- iv. Ronderos, N. (2019). "*MGARCH tests*" Software certificado. DNDA. EViews Add-in.
- v. Ronderos, N. (2018). "*Spectral Granger Causality*" Software certificado. DNDA. EViews Add-in.
- vi. Ronderos, N. (2017). "*HEGY seasonal unit root test*" Software certificado. DNDA. EViews Add-in.
- vii. Ronderos, N. (2015). "*STAR models*" Software certificado. DNDA. EViews Add-in.
- viii. Ronderos, N. (2014). "*Spectral Analysis*" Software certificado. DNDA. EViews Add-in.
- ix. Ronderos, N. (2013). "*Periodogram*" Software certificado. DNDA. EViews Add-in.
- x. Ronderos, N. (2013). "*Group X12*" Software certificado. DNDA. EViews Add-in.

SOFTWARE

Eviews, STATA, Jmulti, Gretl, R, Python, Html, RATS, Excel, Word, Lyx and Latex.

LANGUAGES

English: *fluent*.

Spanish: *native*

ACADEMIC EVENTS

- i. 2021 – National Colloquium of Doctoral Students in Economics, Universidad del Norte (Uninorte): *The Modified Instrumental Variable (MIV) for Endogenous Instrumental Variables*.
- ii. 2021 – Doctoral Colloquia in Economics (Research Network), Barranquilla and Cali: *The Modified Instrumental Variable (MIV)*.
- iii. 2022 – Doctoral Colloquia in Economics, Cali, Colombia: *The Influence of the Underground Economy on Economic Growth*.
- iv. 2023 – IV Doctoral Colloquium in Economics, National University of Colombia, Medellín: *The Modified Instrumental Variable (MIV)*.
- v. 2025 – IV Quantitative Methods Network (AFADECO), Universidad del Atlántico, Barranquilla: *Fragmentation of Educational Trajectories among Rural Youth*.
- vi. 2025 – VII International Conference on Development and Territory, Universidad de La Salle: *The Influence of the Underground Economy on Economic Growth*.
- vii. 2025 – International Symposium on Sustainable and Equitable Health, IETS – Universidad Santo Tomás: *The Link between Oil Production and Sexually Transmitted Diseases* (with O. Salamanca).

REFERENCES

Álvaro Montenegro García. *Ph.D. in economics, New York University* Tel: (+57) 3208320 Ext. 5145

Juana Téllez. *Ph.D in Economics, Queen Mary University*, Tel: (+57) 3471600 Ext. 114