Orlando Joaqui Barandica

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About me

• I am a current candidate for Ph.D. in Engineering with an emphasis in Industrial Engineering at the Universidad del Valle. Statistician and Master in Applied Economics. Member of the GIFINC research group (Quantitative Finance Research Group) of the Faculty of Industrial Engineering of the Universidad del Valle. My research topic is asset and liability management oriented to the banking sector and the energy sector. I am an assistant professor at the School of Statistics and Industrial Engineering at the Universidad del Valle. I have directed various research projects and courses in statistics, data visualization, econometrics and quantitative finance at the Pontificia Universidad Javeriana de Cali, Universidad ICESI, Universidad San Buenaventura Cali, Universidad del Tolima and the Faculty of Economics at Universidad del Valle. My current research interests include asset and liability management, quantitative finance, applied econometrics, applied statistics (time series, multivariate analysis, spatial data), and data visualization.. More info: www.joaquibarandica.com

Education

PhD(C) in Industrial Engineering (Current)

Cali, Colombia

Universidad del Valle

2020 - Current

· Research: Topics in asset and liability management

• Advisors: Diego F. Manotas - Jorge M. Uribe

MSc Applied Economics Cali, Colombia

Universidad del Valle 2015 - 2017

· Research: Effect of the world interest rate on the equity markets of emerging economies

· Advisors: Jorge M. Uribe

BSc Statistics Cali, Colombia

Universidad del Valle 2008 - 2014

· Research: Modeling the effect of climatological factors on the productivity of rice cultivation in some producing areas of Colombia with information from historical series

· Partner: Oscar W. Orozco

· Advisors: David Arango - Javier Olaya

COMPLEMENTARY COURSES

Jun. 2018 Big Data (Text Mining): (Cali, Colombia)

Pontificia Universidad Javeriana de Cali

May 2017 Introduction to Mixed Generalized Linear Models: (Cali, Colombia)

Colombian Society of Statistics

Apr. 2016 **Data Mining**: (Cali, Colombia)

Colombian Society of Statistics

Work Experience

Universidad del Valle Cali, Colombia

ASSISTANT PROFESSOR

2016 - Current

· School of Statistics

ASSISTANT PROFESSOR

ASSISTANT PROFESSOR

- · School of Industrial Engineering
- Department of Economics (2020)

Pontificia Universidad Javeriana de Cali

Cali, Colombia

2016 - Current

2021

• Department of Accounting and Finance

- · Department of Economics
- Department of Natural Sciences and Mathematics (2016 2019)

Universidad del Tolima Ibagué, Colombia

· Department of Economics and Finance

ORLANDO JOAQUI BARANDICA · CURRICULUM VITAE

SEPTIEMBRE, 2022

Universidad ICESI Cali, Colombia ASSISTANT PROFESSOR 2016 - 2019 • Department of Mathematics and Statistics **Universidad San Buenaventura Cali** Cali, Colombia ASSISTANT PROFESSOR 2019 • Department of Economics Universidad Santiago de Cali Cali, Colombia 2018

ASSISTANT PROFESSOR

• Education Faculty

CIAT - The International Center for Tropical Agriculture

Palmira, Colombia

VISITING RESEARCH

2014

• Program cassava breeding

Teaching experience _____

UNIVERSIDAD DEL VALLE

2016 S2	Econometrics (School of Statistics)
2018 S2	Econometrics (School of Statistics)
2019 S2	Econometrics (School of Statistics)
2020 S1	Time series and forecast (School of Statistics - Postgraduate)
2020 S1	Analysis of social and economic data in R (Department of Economics)
2020 S1	Multivariate analysis and data mining (School of Statistics / Short course)
2020 S2	Statistical methods (School of Statistics)
2020 S2	Data processing (School of Statistics)
2021 S1	Statistical methods (School of Statistics)
2021 S1	Data processing (School of Statistics)
2021 S2	Statistical methods (School of Statistics)
2021 S2	Statistical fundamentals (School of Statistics)
2021 S2	Analytics applied to finance (School of Industrial Engineering - Posgraduate
2022 S1	Data management (School of Industrial Engineering)
2022 S1	Data processing (School of Statistics)
2022 S1	Applied statistics I (School of Statistics)

PONTIFICIA UNIVERSIDAD JAVERIANA DE CALI

2022 S1 **Probability and statistics** (School of Statistics)

2016 S1	Descriptive statistics (Department of Natural Sciences and Mathematics)
2016 S2	Statistics I (Department of Natural Sciences and Mathematics)
2017 S1	Statistics I (Department of Natural Sciences and Mathematics)
2017 S2	Statistics I (Department of Natural Sciences and Mathematics)
2018 S1	Statistics I (Department of Natural Sciences and Mathematics)
2018 S1	Quantitative methods for finance (Department of Accounting and Finance)
2018 S2	Statistics I (Department of Natural Sciences and Mathematics)
2019 S1	Statistics I (Department of Natural Sciences and Mathematics)
2019 S1	Quantitative methods for finance (Department of Accounting and Finance)
2019 S2	Statistics I (Department of Natural Sciences and Mathematics)
2019 S2	Quantitative methods for finance (Department of Accounting and Finance)
2020 S1	Mathematics and statistics for economic sciences (Department of Economics - Posgraduate
2020 S2	Mathematics and statistics for economic sciences (Department of Economics - Posgraduate
2021 S1	Quantitative methods for finance (Department of Accounting and Finance)
2021 S2	Mathematics and statistics for economic sciences (Department of Economics - Posgraduate
2021 S2	Quantitative methods applied to social policy (Department of Economics - Posgraduate)
2022 S1	Quantitative methods for finance (Department of Accounting and Finance)

UNIVERSIDAD ICESI

2016 S2 Probability theory (Department of Mathematics and Statistics)
2017 S1 Probability theory (Department of Mathematics and Statistics)
2017 S2 Probability theory (Department of Mathematics and Statistics)
2017 S2 Statistical inference (Department of Mathematics and Statistics)
2017 S2 Regression and Sampling (Department of Mathematics and Statistics)
2018 S1 Probability theory (Department of Mathematics and Statistics)
2018 S1 Statistical inference (Department of Mathematics and Statistics)
2018 S1 Regression and Sampling (Department of Mathematics and Statistics)
2018 S2 Regression and Sampling (Department of Mathematics and Statistics)
2018 S2 Regression and Sampling (Department of Mathematics and Statistics)
2019 S1 Statistical inference (Department of Mathematics and Statistics)

2019 S1 Regression and Sampling (Department of Mathematics and Statistics)

Universidad San Buenaventura Cali

- 2019 S1 **Econometrics I** (Department of Economics)
- 2019 S1 Econometrics II (Department of Economics)

Universidad del Tolima

- 2021 S2 Data Visualization in R (Department of Economics and Finance / Short course)
- 2021 S2 **Reports in Rmarkdown** (Department of Economics and Finance / Short course)

Universidad Santiago de Cali

2018 S2 **Techniques and data analysis** (Education Faculty / Short course)

Presentations

- Jun. 2022 Global liquidity and the profitability of energy firms. (with Manotas-Duque, Diego F., Uribe, Jorge M.). ICEE 2022 Energy and Environment: Bringing together Economics and Engineering.

 (Porto, Portugal).
- Distributed lag non-linear models (DLNM) of the effect of macroeconomic factors on the MSCI

 Nov. 2021 Colombia index of market capitalization in the stock market during the period 2001 to 2020. (with Osorio, B., Ramirez, C.). Workshop on Advances in Statistical Methods.

 (Colombia).
- Sept. 2021 Commonality, macroeconomic factors and banking profitability. (with Manotas-Duque, Diego F., Uribe, Jorge M.). IFABS 2021.

(Oxford, UK - (virtual)).

Nov. 2020 **Assets Liability Management: Un análisis bibliométrico y modelación de temas**. (with -). Semana de la Ingeniería - Universidad del Valle.

(Cali, Colombia).

- Social Responsibility and Financial Performance in violent setttings: A study of Colombian Family
- May 2019 **Firms**. (with González, A., Rodriguez, Y., Maldonado, S., Pérez, M.). 15th Annual Family Enterprise Research Conference FERC.

(The University of Vermont, USA.).

- Nov. 2018 Análisis de la dinámica de reputación corporativa, responsabilidad social y gobierno de empresa utilizando statis. (with Ochoa, A.). Il Simposio de Biotecnología Industrial. ISSN: 2665-1548 (Palmira, Colombia).
- Divulgación de información de RSC: Un análisis de la dinámica de reputación corporativa,

 Nov. 2018 responsabilidad social y gobierno de empresa utilizando statis. (with Ochoa, A.). Il Congreso Colombiano de Estadística. ISSN: 2665-2048

(Cali, Colombia).

Factores determinantes de la aplicación de los niveles de la GRI en la divulgación de información
Oct. 2016 sobre responsabilidad social empresarial (RSE) para los años 2011 a 2015. (with Maldonado, S., Gaitán, C., Acosta, A.). International Finance Conference - IFC. ISBN 978-956-362-941-5
(Viña del Mar, Chile).

Publications

ARTICLES

Commonality, macroeconomic factors and banking profitability. (with Manotas-Duque, Diego F., Uribe, Jorge M.). The North American Journal of Economics and Finance. 62: 101714 2022

https://doi.org/10.1016/j.najef.2022.101714

Assets Liability Management: A bibliometric analysis and topic modeling. (with Manotas-Duque, Diego F.). *Entramado*. 18 (2): e-8242 2022

https://doi.org/10.18041/1900-3803/entramado.1.8242

Mind the Gap! Socioeconomic Determinants of the Stunting Urban-Rural Gap for Children in

Colombia. (with Cárdenas, E., Osorio, A., Pico, S.). Child Indicators Research. : 2022

https://doi.org/10.1007/s12187-021-09880-7

Elección del tipo de transporte en la clase trabajadora de Colombia: un análisis por regiones. (with

Rodriguez-Barco, D.). Libre Empresa. 16 (2): 65-79 2019

https://doi.org/10.18041/1657-2815/libreempresa.2019v16n2.6608

Cassava Breeding I: The Value of Breeding Value. (with Ceballos, H., Pérez, J., Lenis J., Morante, N., Calle,

F., Pino, L., Hershey, C.). Frontiers in Plant Science. 7: 1227 2016

https:doi.org/10.3389/fpls.2016.01227

Cassava Breeding II: Phenotypic Correlations through the Different Stages of Selection. (with Pérez, J..,

2016 Lenis, J., Calle, F., Morante, N., Pino, L., Hershey, C., Ceballos, H.). Frontiers in Plant Science. 7: 1649 https:doi.org/10.3389/fpls.2016.01649

CHAPTER OF THE BOOK

Resultados componente cuantitativo: acciones, conocimientos, actitudes y prácticas preventivas

frente al VIH. (with Canaval, G., Valencia, C., Muñoz, E., Tovar, R., Triviño, Z. Chantre, S., Chamorro, M.).

Tramas, sexualidades y prevención del VIH en jóvenes universitarios de Cali. Ed. Sello Editorial Javeriano.

ISBN: 78-958-5119-18-5

WORKING PAPER

2019

Commonality, macroeconomic factors and banking profitability. (with Manotas-Duque, Diego F., Uribe,

2021 Jorge M.). IREA - Universitat de Barcelona.

https://www.ub.edu/irea/working_papers/2021/202113.pdf

Directed degree projects

Master's Analysis of the financial performance of companies in the electricity sector in Latin America: a thesis comparison at the level of emerging and developed markets in Colombia

Student(s): Muñoz, L. (Universidad del Valle - Master of Industrial Engineering, Developing)

Undergraduate thesis

Non-linear modeling (DLNM) of the effect of macroeconomic factors on the MSCI Colombia index of market capitalization in the stock market for the period 2001 to 2020

Student(s): Osorio, B. and Ramírez, C. (Universidad del Valle - Undergraduate in Statistics, Developing)

Under-

graduate Modeling of the effect of the price of natural gas on the price of Electricity: Germany in times of crisis thesis

Student(s): Hernandez, W. and Ramirez, G. (Universidad del Valle - Undergraduate in Statistics, Developing)

Under-

graduate Spatio-temporal analysis of the productivity conditions of the departments of Colombia

Student(s): Cobo, N. and Gaviria, C. (Universidad del Valle - Undergraduate in Statistics, Developing)

Refereeing

JOURNALS

Journal Desarrollo y Sociedad

Universidad de los Andes

Journal Entramados

Universidad Libre de Cali

EVALUATION COMMITTEE

Master's Valuation of liabilities under solvency II for mutual funds thesis Student(s): Torres, A. (Pontificia Universidad Javeriana de Cali - Master of Finance, 2022) Under-Creation of a package in the statistical software R for a non-parametric Bayesian hypothesis test for graduate paired samples thesis Student(s): Ortiz, K. and Sandoval, K. (Universidad del Valle - Undergraduate in Statistics, 2022) Under-Multivariate analysis of data for the evaluation of the dynamics of monetary poverty in Colombia by graduate departments during the period 2012-2020 thesis Student(s): Plaza, A. (Universidad del Valle - Undergraduate in Statistics, 2022) Under-Modeling of the price of the offer of housing for sale in the city of Cali, considering variables of the graduate asset and covariates of its environment thesis Student(s): Quinto, K. and Barrios, S. (Universidad del Valle - Undergraduate in Statistics, 2021) Undergraduate Study on long memory on the volatility of the COLCAP index in the period 2008-2018 Student(s): Sandoval, K. (Universidad del Valle - Undergraduate in Statistics, 2021) Under-Combination of the analysis of mixed clusters and MCA with missing data for the study of lifestyles of graduate young university students thesis Student(s): Ortega, L. (Universidad del Valle - Undergraduate in Statistics, 2019)

Software

Language R, Python