# Orlando Joaqui Barandica

#### PHD. STUDENT

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# About me

• I am a current student of the Doctorate 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 a professor at the Faculty of Statistics 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 student in Industrial Engineering (Current)

Cali, Colombia 2020 - Current

Universidad del Valle

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**

May 2021 Machine Learning with R: (on-line, Chile)

Dataidea - www.dataidea.org

May 2021 Dashboard with Shiny in R: (on-line, Chile)

Dataidea - www.dataidea.org

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

School of Statistics

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

#### Pontificia Universidad Javeriana de Cali

Cali, Colombia

2016 - Current

2016 - Current

Assistant Professor

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

Universidad del Tolima Ibagué, Colombia ASSISTANT PROFESSOR 2021 · Department of Economics and Finance **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 ASSISTANT PROFESSOR 2018 · 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) PONTIFICIA UNIVERSIDAD JAVERIANA DE CALI

2016 S1	<b>Descriptive Statistics</b> (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	<b>Quantitative Methods for Finance</b> (Department of Accounting and Finance)
2019 S2	Statistics I (Department of Natural Sciences and Mathematics)
2019 S2	<b>Quantitative Methods for Finance</b> (Department of Accounting and Finance)
2020 S1	<b>Mathematics and Statistics for Economic Sciences</b> (Department of Economics - Posgraduate)
2020 S2	<b>Mathematics and Statistics for Economic Sciences</b> (Department of Economics - Posgraduate)
2021 S1	<b>Quantitative Methods for Finance</b> (Department of Accounting and Finance)
2021 S2	<b>Mathematics and Statistics for Economic Sciences</b> (Department of Economics - Posgraduate)
2021 S2	<b>Quantitative methods applied to social policy</b> (Department of Economics - Posgraduate)

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 S2 Regression and Sampling (Department of Mathematics and Statistics)
2018 S2 Regression and Sampling (Department of Mathematics and Statistics)
2018 S2 Statistical inference (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\_

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)

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

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.,

Lenis, J., Calle, F., Morante, N., Pino, L., Hershey, C., Ceballos, H.). Frontiers in Plant Science. 7: 1649 2016

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,

Jorge M.). IREA - Universitat de Barcelona.

https://www.ub.edu/irea/working\_papers/2021/202113.pdf

# Refereeing

#### **JOURNALS**

Journal Desarrollo y Sociedad

Universidad de los Andes

Journal Entramados

Universidad Libre de Cali

#### **EVALUATION COMMITTEE**

Under-

graduate thesis

Modeling of the price of the offer of housing for sale in the city of Cali, considering variables of the

asset and covariates of its environment

Student(s): Quinto, K. and Barrios, S. (Universidad del Valle, 2021)

Under-

graduate Study on long memory on the volatility of the COLCAP index in the period 2008-2018

thesis Student(s): Sandoval, K. (Universidad del Valle, 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, 2019)

# Software

Language R, Python