# Orlando Joaqui Barandica

PHD. STUDENT

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## Education

### PhD student 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

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
*2016 - Current*

- Department of Statistics
- Department of Economics (2020)

### Pontificia Universidad Javeriana de Cali
*Cali, Colombia*

ASSISTANT PROFESSOR
*2016 - Current*

- Department of Accounting and Finance
- Department of Economics (2020)
- Department of Natural Sciences and Mathematics (2016 - 2019)

### 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

### CIAT - The International Center for Tropical Agriculture
*Palmira, Colombia*

VISITING RESEARCH
*2014*

- Program cassava breeding

# Teaching experience

## Universidad del Valle

2016 S2   **Econometrics** (Department of Statistics)

2018 S2   **Econometrics** (Department of Statistics)

2019 S2   **Econometrics** (Department of Statistics)

2020 S1   **Time series and forecast** (Department of Statistics)

2020 S1   **Analysis of social and economic data in R** (Department of Economics)

2020 S1   **Multivariate analysis and data mining** (Department of Statistics)

2020 S2   **Statistical methods** (Department of Statistics)

2020 S2   **Data processing** (Department of Statistics)

2021 S1   **Statistical methods** (Department of Statistics)

2021 S1   **Data processing** (Department of Statistics)

## Pontificia Universidad Javeriana de Cali

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)

2020 S2   **Mathematics and Statistics for Economic Sciences** (Department of Economics)

2021 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   **Statistical inference** (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)

# Publications

## Articles

| 2019 | **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 |
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| 2016 | **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 | **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 |
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## CHAPTER OF THE BOOK

| 2019 | **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 |
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# Presentations

| Nov. 2020 | **Assets Liability Management: Un análisis bibliométrico y modelación de temas**. (*with - ). Semana de la Ingeniería - Universidad del Valle*. (Cali, Colombia). |
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| May 2019 | **Social Responsibility and Financial Performance in violent setttings: A study of Colombian Family 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.). II Simposio de Biotecnología Industrial*. ISSN: 2665-1548 (Palmira, Colombia). |
| Nov. 2018 | **Divulgación de información de RSC: Un análisis de la dinámica de reputación corporativa, responsabilidad social y gobierno de empresa utilizando statis**. (*with Ochoa, A.). II Congreso Colombiano de Estadística*. ISSN: 2665-2048 (Cali, Colombia). |
| Oct. 2016 | **Factores determinantes de la aplicación de los niveles de la GRI en la divulgación de información 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). |

# Refereeing

## JOURNALS

| Journal | **Desarrollo y Sociedad** Universidad de los Andes |
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| Journal | **Entramados** Universidad Libre de Cali |

## EVALUATION COMMITTEE

| Under-graduate thesis | **Study on long memory on the volatility of the COLCAP index in the period 2008-2018** Student(s): Sandoval, K. (Universidad del Valle, 2021) |
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| Under-graduate thesis | **Combination of the analysis of mixed clusters and MCA with missing data for the study of lifestyles of young university students** Student(s): Ortega, L. (Universidad del Valle, 2019) |

# Software

| Language | R, Python |
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