

Brigitte Castaneda

Economist and Engineer




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EDUCATION



Universidad de Los Andes PhD candidate in Economics - 4.3/5.0	2025 <i>Bogota, Colombia</i>
Universidad de Los Andes M.Sc. in Economics - 4.5/5.0	2023 <i>Bogota, Colombia</i>
Udmurt State University M.Sc. in Economics - 4.5/5.0	2020 <i>Izhevsk, Russia</i>
Udmurt State University M.Sc. in Oil and Gas engineering - 4.8/5.0	2019 <i>Izhevsk, Russia</i>
Universidad de America B.S. in Petroleum Engineering - 3.8/5.0	2015 <i>Bogota, Colombia</i>

RESEARCH






Published Work

- Spreading Jam Across the National Toast: Royalties and Local Fiscal Capacities* with Andrés Álvarez and Marc Hofstetter - Serie Documentos CEDE, 2025-17. 
- A Global and Inclusive Just Transition: Challenges and Opportunities in Developing and Developed Countries' Labor Markets* with Luis F. Intriago, Raphael J. Heffron, and Minwoo Hyun - Environmental Defense Fund Economics Discussion Paper Series, EDF EDP 24-03, Aug 2024. 
- Preparando la Transición Energética Justa en las regiones: Análisis de Impactos Macroeconómicos* with Andrés Álvarez and Marc Hofstetter. 

Working Papers

- "Can we growth while reducing emissions? The role of energy mix."* with Hernando Zuleta 
- "Climate Policy and Structural Change: Evidence from Energy Transition in Latin America"* with Hernando Zuleta 
- "REDD+ projects in Afro-Colombian Communities: Impacts on Deforestation and Coca Crops"* with Carolina Castro, Santiago Herrera and Maria Alejandra Velez
- "How to make fossil fuel subsidy reform socially acceptable in Colombia: the role of information and compensatory policies"* with Farah Mohammadzadeh, Charlotte Bez, Leonard Missbach, Jan C. Steckel, Jorge Bonilla, Jorge Garcia. - Supported by EfD.
- "When the Oil Runs Low, Where Do Students Go? Evidence from Local Shocks in Colombia"* with Jaime Polanco

Conference Papers

- Equity index for educational scores standardization. *DS4A Final report.* 
- Synthetic NMR well logs using supervised machine learning algorithms. *ISBN978-5-91961-386-2* 
- Effect analysis of natural gas prices on the income of the Russian budget. *ISBN: 978-5-4312-0728* 
- ARIMA forecast to detect and avoid stuck pipe problems during drilling. *ISBN 978-5-4312-0708-2* 
- Application of FMEA methodology in well drilling. *ISBN: 978-5-4312-0641-2* 

TEACHING

Teaching Assistant:

Economics and Sustainability (graduate level)	2025 – I
Introductory Macroeconomics (undergraduate level)	2022 – II & 2023 – I
Microeconomics: Consumer and Producer Theory (undergraduate level)	2022 – II
Introductory Microeconomics (graduate level)	2022 – I
Elective in Oil and Gas Engineering	2021 – I

ACADEMIC POSITIONS

Universidad de los Andes Teaching Assistant of Economics	Since 01 2021 <i>Bogotá, Colombia</i>
Universidad de los Andes Academic Coordinator, Faculty of Mechanical Engineering	02 2020 – 01 2022 <i>Bogotá, Colombia</i>

WORK EXPERIENCE

Global Green Growth Institute GGGI Individual Consultant	10 2024 – actual <i>Bogotá, Colombia</i>
Centro Regional de Finanzas Sostenibles, Uniandes. Research Assistant	04 2022 – 04 2024 <i>Bogotá, Colombia</i>
Centro Regional de Estudios en Energia CREE Consultant	11 2023 – 12 2023 <i>Bogotá, Colombia</i>
Environmental Defense Fund Contractor, Doctoral, Temp - Just Transition	06 2023 – 09 2023 <i>Washington, USA</i>
World Bank Senior Data Scientist - Short Term Consultant	01 2023 – 03 2023 <i>Remote</i>
Universidad de los Andes. Academic Coordinator, Master program in Petroleum Engineering.	02 2020 – 01 2022 <i>Bogotá, Colombia</i>
Glocation S.A.S. (Google Partner). Data analyst, OCYT Project (Colombian Observatory of Science and Technology)	02 2021 – 04 2021 <i>Bogotá, Colombia</i>
Bistro Bank Internship, Entry-Level Data Scientist	02 2020 – 03 2020 <i>Ishevsk, Russia</i>
Udmurt State University Oil Field Internship, Engineering Training	09 2018 – 05 2019 <i>Ishevsk, Russia</i>
Smart Energy Council & PetroNews S.A.S. Co-founder	11 2014 – 12 2016 <i>Bogotá, Colombia</i>

ACHIEVEMENTS

Best Article Award – Doctoral Workshop, Universidad de los Andes	04/2024
Selected for SPAR6C Research Mentoring Program (GGGI)	12/2023
Survey funding from EfD – Fossil Fuel Subsidy Reform (Colombia)	11/2023
Honors – “Data Science for All” course, Ministry of Technology	08/2020
Excellence Scholarship – Russian Federation Government	08/2018
1st in Paper, 2nd in Poster – Oil and Gas Horizons XI	11/2019
Finalist – SPE Student Paper Contest (Russia/Caspian)	10/2019
Finalist – Russian “Student of the Year,” International Student category	11/2018

CONFERENCES AND PRESENTATIONS

- 2025** SETI Annual Workshop (Gothenburg, Sweden), LAERE Annual Meeting (Bogotá, Colombia), Bogotá Experimental Economics Conference (poster session, Colombia)
- 2024** Economics Seminar at Luleå University of Technology (Sweden), Mentoring Workshop at LACEA LAMES (Montevideo, Uruguay), CEDE Seminar at Universidad de los Andes (Bogotá, Colombia), EfD 18th Annual Meeting (Nairobi, Kenya), EAERE Conference (Belgium), SETI Sustainable Energy Transition Initiative Annual Workshop (online), AERE Summer Conference (Washington, D.C., USA)
- 2023** International Economic Association World Congress (Medellín, Colombia), 3-Minute Thesis Competition at Campus Iberus International Contest (Cartagena, Colombia), XVII Congress of the International Society for Ecological Economics (Santa Marta, Colombia)
- 2022** V Colloquium of Doctoral Students in Economics (Cali, Colombia)
- 2019** Finalist, SPE Student Paper Contest for the Russian and Caspian Region (Moscow, Russia), First Place in Paper Session "Smart Technologies" at Oil and Gas Horizons (Moscow, Russia), Finalist in the national contest "Student of the Year" in the category of International Student (Russia)

SKILLS/ LANGUAGES

Programming skills.

R, Python, QGIS, Matlab and Bigquery.

Languages

Russian, English and Spanish.

CERTIFICATIONS

- Research Mentorship Program for Implementing Article 6 of the Paris Agreement - *UNEP & GGGI* 
- Responsible Conduct of Research (RCR) in Social Sciences - *CityProgram* 
- Reproducible Research - *Universidad de los Andes* 
- Preparing the Public and Financial Sector for Climate Transition Risk - *CFS Uniandes & UKPACT*
- Data Science For All (DS4A) - *Correlation One & MinTIC* 
- Machine Learning - *Coursera* 
- Technology Entrepreneurship - *Stanford University* 