

CURRICULUM VITAE
JUAN FELIPE HERRERA SARMIENTO

Contact Information

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Education

2023-current Student, MSc ESS, Università Bocconi. Current GPA: 28.64/30
2016-2020 Student, BSc Economics, Universidad Nacional de Colombia (UNAL)
GPA: 4.5/5. 2nd out of 74 graduates. Thesis supervisor: Andrés Uscátegui Russi
2015 High School (Gimnasio Oxford School, Colombia). Final grade: 100/100 1st of the class

Awards and Scholarships

2022 Colfuturo Funding & Talent Seedbed
2021 Automatic admission scholarship for postgraduate degrees (top 5% of GPAs in the career at Universidad Nacional de Colombia)
2020 Scholarship MIT course Leading Digital Transformation – Banco Santander
2019-2020 Tuition scholarship for performance in national economics academic contests
2015 Best national state test performance (ICFES) in high school

Work Experience

2023-2024 Consultor at Agence Française de Développement: Modelling economic policies for energy transition using a SFC model.
2022-2023 Macroeconomic modeler at Ministry of Finance (Colombia): Developing and using new Keynesian models for policy analysis and forecasting (Training with IMF-ICD team).
2021-2023 Research Assistant at Bocconi University (Part-time): Support in analysis, coding, estimation, and document writing on applied microeconomics (support with R&R Journal of Political Economy paper).
2021 Economic Advisor at Republic Senate (Colombia)
2020 Internship at Ministry of Finance (Colombia) in Macroeconomic models' team (DGPM).
2018-2020 Undergraduate Teaching Assistant (Macroeconomics, Microeconomics, Dynamic Modeling and Static Modeling), Universidad Nacional de Colombia

Languages

Spanish: Native language. English: fluent (IELTS 8.0). Italian: Basic.

Computer Skills

Softwares: Matlab (proficient), STATA (proficient), MS Office (proficient), R-studio (intermediate)
Programming languages: Dynare & IRIS (Matlab toolbox; proficient), LaTeX (proficient), R (intermediate), Python (fair), Julia (fair)

Publications

2024 Castañeda, F., Herrera, J.F., Osorio, F. & Rivera, S. (2024) Seller's Inflation in Colombia. *Notas Macroeconómicas*. Ministerio de Hacienda y Crédito Público. No 2.

- 2021 Angarita, G., Hartmann-Cortés, K. & Herrera, J.F. (2021) The 'privatization' of the public Action of Unconstitutionality. *Revista Derecho del Estado*, Universidad Externado de Colombia. No 50, 203-259.
- [Forthcoming] Andrade J., Herrera J.F., Godin, A. & Yilmaz, D. (book's chapter) Modelling low-carbon transitions in Colombia: assessing macro-financial opportunities and risks - Application of the GEMMES Model. *Agence Française de Développement*.

Relevant collaborations

- 2023 Finance Ministry and Public Credit, (2023) Medium-Term Fiscal Framework.
Tasks: Macroeconomic central and risk scenarios using semi-structural models. Tax reform simulation using a DSGE (TANK) model.
- 2022 Finance Ministry and Public Credit, (2022) Medium-Term Fiscal Framework.
Tasks: Macroeconomic risk scenarios simulations using a DSGE (TANK) model. Potential GDP forecast and decomposition.

Extra Curricular Activities

- 2023-current Member of Bocconi Students Quant Society
- 2023 +Colombia volunteer.
- 2021-2022 Volunteer in Border, Peace, Territory and Country Observatory. UNAL Orinoquía.
- 2020-2023 Member of the Macroeconomic Analysis Division (DAMAC-UACE). UNAL Bogotá.
- 2019-2020 Co-founder and director of "Applied and Theoretical Mathematical Modeling in Economics" students' association.

Other Skills and Interests

Sports activities: Football, Archery. Hobbies: Horse riding, Farming, and Videogames.