Iván Higuera-Mendieta

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EDUCATION

Universidad de los Andes   Bogotá, Colombia
Bachelor of Sciences - Economics and Political Science (with thesis honors)   *Jul. 2008 – Mar 2015*
Minor in Philosophy

EXPERIENCE

Pre-doctoral Fellow   Feb 2019 - Present
University of Chicago - Economics Department [EPIC & Climate Impact Lab]   *Chicago, IL*
Supervisors: Steve Cicala and the Climate Impact Lab
- Build APIs to retrieve real-time energy demand and climate data for the USA
- Developed an R library to assimilate wind model forecasts and link them to remote sensed pollution data.
- Build and maintain a library to calculate the Climate Impact Lab's Social Cost of Carbon under different discount and valuation scenarios.
- Teach and create new coding curriculum for new research assistants at the Beckerman Friedman Institute and the Physical Sciences Department at the University of Chicago.

Data Scientist   Feb 2018 - Feb 2019
University of Chicago - Computer Science Department   *Chicago, IL*
Supervisor: Rayid Ghani (CMU)
- Support senior Data Scientists in projects related to homelessness, criminal justice, and algorithm fairness
- Developed a Python sub-module to assess Machine Learning modeling outcomes

Research Analyst   Nov 2015 – Nov 2017
Central Bank of Colombia   *Bogotá & Cartagena, Colombia*
- Research assistant in the Regional Economics Research Unit

AWARDS AND FELLOWSHIPS

International Sustainable Development Research Society
Best Paper Award: First Runner-up   2017

Data Science for Social Good Fellowship
Summer Fellowship - University of Chicago   2017

Ulpiano Ayala Prize - Universidad de los Andes
Best undergraduate thesis   2015

PUBLICATIONS & WORKING PAPERS

Rodolfa, K. T., Salomon, E., Haynes, L., **Higuera-Mendieta, I**, Larson, J., & Ghani, R. (2020). Case study: Predictive fairness to reduce misdemeanor recidivism through social service interventions. In *Proceedings of the 2020 conference on fairness, accountability, and transparency* (142–153). FAT* '20. doi:10.1145/3351095.3372863

Higuera-Mendieta, I, Farah, A., Song, Y., Franke, J. A., Moyer, E., & Nakamura, N. (2020). Arctic airmass displacement and reduced midlatitudes wintertime temperature variability under climate change. [*To be presented at the AGU 2020 Meeting*].

Bonilla-Mejía, L., & **Higuera-Mendieta, I.** (2019). Protected Areas under Weak Institutions: Evidence from Colombia. *World Development*, *122*. doi:10.1016/j.worlddev.2019.06.019

Bonilla, L., & **Higuera-Mendieta, I** (2017). Political alignment in the time of weak parties: Electoral advantages and Subnational transfers in Colombia. *Documentos de Trabajo sobre Economía Regional*, *260*.

Technical Skills

Languages: Python, R, C, SQL (Postgres), JavaScript, HTML/CSS
Developer Tools: Bash, Git, Docker, Singularity
Computing Tools: High-performance Computing, MPI, Amazon AWS, Spark