




JAIME POLANCO-JIMENEZ

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Research Interests

Development Economics, Economics of Education and Natural Resource Economics

Education

Universidad Pontificia Javeriana, Bogotá, Colombia Jul 2020 – Jul 2024 *Ph.D. in Economics (Expected)*

Udmurt State University, Izhevsk, Russia Sep 2018 – Jul 2020 *Master of Economics*

Relevant Coursework: Econometrics, Time Series Analysis, Financial Econometrics

Udmurt State University, Izhevsk, Russia Sep 2018 – Jul 2020 *Master in Oil and Gas Engineering*

University of America, Bogota, Colombia 2016 *Bachelor in Oil and Gas Engineering*

Technical Skills

Languages: Spanish (Native), Russian, English

Programming Languages: Python, R, SQL, \LaTeX

Libraries Tools: Pandas, NumPy, NLP, Scikit-Learn, TensorFlow, GCP, Docker, Git, Linux

Methodologies: Causal inference, Econometrics, Machine Learning, Statistical Modeling

Experience

Servinformacion, Bogotá, Colombia Oct 2022 – Present *Data Scientist*

- Create a chatbot framework (servibots), that allows creating a custom knowledge base in less than three minutes.
- Deployed custom ML models on GCP for production, including on Google Earth Engine
- Built data pipelines with Dataflow, BigQuery, Cloud Functions, and other GCP tools
- Developed models using TensorFlow, Scikit-Learn, PyTorch, and other libraries

Secretaría de Salud de Bogotá, Bogotá, Colombia Oct 2020 – Aug 2022 *Data Scientist*

- Implemented data infrastructure for cleaning and analyzing public health data
- Supported development of the Unified Health Information System

Projects

Predicting Hospital Readmissions | *Python, Pandas, Tensorflow* Mar 2021 – May 2021

- Built classification models to predict likelihood of readmission using patient data

Papers in Progress

- Road to the Future: Identifying Impacts of Roads on Education in Colombia
- Black Gold and Dull Minds: The Impact of Oil Exploration Announcements on Education in Colombia

Publications

- Analysis of the oil price impact on the Colombian and Russian revenues [[Website](#)]
- An econometrics forecasting model of monthly short term oil price [[Website](#)]
- Synthetic NMR logs using supervised machine learning algorithms [[Website](#)]

Scholarships and Grants

Russian Government Grant, Udmurt State University, Sep 2018

Doctoral Scholarship, Pontificia Javeriana University, Jul 2020