Javier Parada

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EDUCATION

University of California, Davis
PhD in Agricultural and Resource Economics
Davis, CA
2011 – 2018

Centro de Investigación y Docencia Económicas
MS in Economics
Mexico City, Mexico
2008 – 2010

EXPERIENCE

The World Bank Development Data Group (DECDG)
Junior Data Scientist
Washington, DC
May 2021 – Present

- **World Development Indicators (WDI)**: Manage the curation, maintenance, update, and documentation of World Bank's Environmental portfolio in the WDI, which includes:

  - Food, agriculture, fish production, land cover, and deforestation indicators by country, with updates automated as new data becomes available using FAO's FAOSTAT API.

  - Greenhouse gas emissions by country, gas, and sector, updated each year from the Climate Watch's historical emissions database.

  - Energy and electricity production and consumption indicators by country, per capita, and by fuel source.

  - Biodiversity protection indicators related to the establishment of land and marine protected areas, updated each year in synchrony with the World Database on Protected Areas (WDPA).

  - Calculation of global, national, and sub-national sea-level rise vulnerability indicators including percentage of land and population within 5 meters above sea level using digital elevation models.

  - Other indicators that monitor progress towards the Sustainable Development Goals (SDG 6 on water, SDG 7 on energy, SDG 13 on climate change, SDG 14 on oceans, and SDG 15 on life on forests).

  - For all of these, communicate indicator's current methodology and changes in a shared repository, especially concerning handling of missing data and outliers, and the creation of aggregates and other derived indicators.

- **Atlas of Sustainable Development Goals 2023**: Develop interactive website that inspires to discover and visualize progress towards achieving the SDGs (forthcoming).

  - Develop storylines and visuals as co-author for the stories related to SDG 7 and SDG 14.

- **Cross-support activities**: Maps, charts, and other dashboards for several teams, including requests for Country Climate and Development Reports (CCDRs) (see http://hdl.handle.net/10986/38217).

The World Bank
Postdoctoral researcher
Washington, DC
July 2020 – April 2021

- **Fellowship Program in Forced Displacement**: Sponsored by the DFID-UNHCR-World Bank program "Building the Evidence on Forced Displacement: A Multi-Stakeholder Partnership".

  - Use of detailed georeferenced panel data to study land cover dynamics into and out of cropland in the Middle East as a result of conflict.

OTHER RECENT PROJECTS

- **Sovereign ESG Data Portal**: Cross-support on data management tasks for https://esgdata.worldbank.org/.
- **Land Matters: Can Better Governance and Management of Scarcity Prevent a Looming Crisis in the Middle East and North Africa?**: Contributed land use change analysis and maps to flagship report (see http://hdl.handle.net/10986/38384).

TECHNICAL SKILLS

Languages: Python, Stata, R, Tableau, Git, Matlab, R Shiny
Libraries: pandas, geopandas, scikit-learn, numpy, matplotlib, pyplot, seaborn, leaflet, geemap
GIS Tools: QGIS, Google Earth Engine

LANGUAGES

English: Full Professional
Spanish: Native
French: Limited Working