

# Javier Parada

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## EDUCATION

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- **University of California, Davis** Davis, CA  
*PhD in Agricultural and Resource Economics* 2011 – 2018
- **Centro de Investigación y Docencia Económicas** Mexico City, Mexico  
*MS in Economics* 2008 – 2010

## EXPERIENCE

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- **The World Bank Development Data Group (DECDG)** Washington, DC  
*Junior Data Scientist* 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 in 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 (see <https://datatopics.worldbank.org/sdgatlas/>).
    - 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** Washington, DC  
*Postdoctoral researcher* 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

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- **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

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**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

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**English:** Full Professional

**Spanish:** Native

**French:** Limited Working