

EMILY MILLER

EXPERIENCE

BILL & MELINDA GATES FOUNDATION

Data Scientist | Sep 2017 – present

Seattle, WA

- Build interactive visualizations that inform high level strategy decisions.
- Shape conversations around use cases of data science in agricultural development. Communicate data limitations and paths forward.

METIS

Data Science Fellow | Apr – Jun 2017

San Francisco, CA

- Built a neural net to identify damaged buildings in the Philippines after Typhoon Haiyan using satellite imagery. Created density maps of damage to illustrate priority areas for relief efforts and enable better targeting.
- Designed an NLP model to distill topics from press briefings from Obama's presidency. Built a timeline of salient topics in plotly.
- Built an animated d3 visualization to illustrate droughts and floods in India. Designed a time series model to predict future rainfall.

STANFORD CENTER FOR INTERNATIONAL DEVELOPMENT

Senior Research Assistant | Sep 2015 – Apr 2017

Palo Alto, CA

- Analyzed national household survey data on agricultural debt and conducted field interviews with farmers during two months in India.
- Cleaned panel survey data and ran regressions for a publication on water management in Kenya.
- Authored 21 website articles that distilled econometric research into key policy takeaways.

THE BROOKINGS INSTITUTION

Research Assistant | Nov 2013 – Aug 2015

Washington, DC

- Created data visualizations for a co-authored policy brief on inter-American relations. Compiled data to illustrate trends over six decades.
- Provided detailed, substantive edits on all research pieces.
- Hired and supervised three interns. Oversaw research for an award-winning book on Brazilian foreign policy.

UNITED NATIONS ECONOMIC COMMISSION FOR LATIN AMERICA AND THE CARIBBEAN

Graduate Intern | Jun – Aug 2012

Buenos Aires, Argentina

- Researched and wrote a paper on economic, urban, and structural determinants of employment creation in Argentina.
- Designed two econometric models to test theories of employment.

Data scientist passionate about international development and using data for social good.

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EDUCATION

The New School | 2013

MA International Development

Cumulative GPA: 3.95/4.0

Washington University in St. Louis | 2011

BA Latin American Studies, Spanish and Macroeconomics
Summa cum laude

SKILLS

Python	Regression
STATA	Classification
d3	Time Series
HTML	NLP
CSS	sklearn
JavaScript	pandas
SQL	numpy
AWS	geopandas
MongoDB	shapely
SARIMAX	keras

Fluent in Spanish
Conversational in Portuguese