

# Marcos Fabian Covarrubias

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## Education

- 2022–Present**     **Ph.D. in Policy Analysis**, University of Maryland, USA. Advisor: Prof. Susan W. Parker.
- 2015–2017**     **M.A. in Economics**, Center for Research and Teaching in Economics (CIDE), Mexico City, Mexico. Thesis: *Impact evaluation of a critical economic event on child health production. Evidence from Mexico: 2002–2009* (Advisor: Prof. Fernanda Márquez-Padilla).
- 2011–2015**     **B.S. in Mathematical Engineering**, National Polytechnic Institute, Mexico City, Mexico.

## Work Experience

- 2025–Present**     **Research Assistant**, School of Public Health, University of Maryland. Spatial econometrics and data engineering: construction of georeferenced birth panels; raster extraction and aggregation of pollution and weather exposures; integration of administrative records with longitudinal microdata for causal inference.
- 2022–2024**     **Research Assistant**, School of Public Policy, University of Maryland. Causal and panel data analysis using large administrative and survey datasets; harmonization of health, demographic, and social program data; validation and replication workflows.
- 2020**             **Research Fellow**, Financial Stability Institute (BIS), Basel. Policy analysis on Big Tech in finance; comparative review of regulatory frameworks; co-development of the BIS FinTech Repository.
- 2017–2022**     **Head of Research and Implementation**, Association of Supervisors of Banks of the Americas (ASBA). Applied policy research and coordination of international regulatory initiatives; production of policy reports on supervision, fraud mitigation, and cross-border cooperation.

## Publications

### Policy Papers

- 2022**             Juan Carlos Crisanto, Johannes Ehrentraud, Marcos Fabian, and Amélie Monteil. *Big tech interdependencies a key policy blind spot*. **FSI Insights**, No. 44.
- 2022**             Marcos Fabian, Antonio Pineda. *General considerations for a cross-border memorandum of understanding between supervisory authorities*. **ASBA Publications**.

- 2021** Juan Carlos Crisanto, Johannes Ehrentraud, and Marcos Fabian. *Big techs in finance: regulatory approaches and policy options*. **FSI Briefs**, No. 12.
- 2021** Marcos Fabian, Antonio Pineda. *Core principles for the development of effective bank supervision capacity-building programs*. **ASBA Publications**.

### Working Papers

- 2025** Susan W. Parker and Marcos Fabian *Time Use, Mental Health, and Household Spending: The Effects of Caregiving on Social Mobility in Nuevo León*. CEEY Working Paper No. 10/2025, Centro de Estudios Espinosa Yglesias.
- 2025** Marcos Fabian. *Protecting maternal and infant health from drought: the role of social safety nets*. Preliminary draft for the American Society of Health Economists, June 2025.

### In progress

Michel Boudreaux, Maranna Yoder, Marcos Fabian, Evan Ellicott, Hao He. *Prenatal exposure to wildfire smoke and infant health: evidence from a nationwide analysis*.

## Conferences & Presentations

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|--|---|
| <b>12/2025</b> Cooling the Heat on Learning. XXII RIDGE Forum, Montevideo, Uruguay.        | <b>02/2020</b> Training needs of financial supervisory authorities in LAC. Atlanta Fed and ASBA meeting, Miami, FL. |
| <b>06/2025</b> Protecting maternal and infant health from drought. ASHEcon, Nashville, TN. | <b>08/2018</b> Financial regulation innovation gaps and opportunities. IDB-ASBA-FELABAN dialogue, Washington, DC.   |
| <b>08/2021</b> Big techs in finance. CLEIF, online.  |   |

## Awards and Fellowships

- 2025** Suzanne M. Bianchi Fellowship Research Grant – Maryland Population Research Center
- 2024** Summer Doctoral Research Fellowship – Institute for Public Leadership.
- 2016** Academic Excellence Scholarship – CIDE.
- 2012–2015** Fundación Telmex Fundación Politécnico Academic Excellence Scholarship.

## Technical Tools

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|---|---|
| <b>Statistical:</b> Stata; R; Python.   | <b>Computing:</b> Linux; HPC; Slurm; conda; module systems. |
| <b>Geospatial:</b> sf; terra; raster and vector workflows; spatial joins; zonal statistics. | <b>Version control:</b> Git; GitHub.                        |
| <b>Data Products:</b> CHIRPS; CHIRTS; ERA5; EPA CMAQ fused surfaces.                        | <b>Writing:</b> LaTeX; BibTeX; Beamer.                      |

## Languages

- English (fluent), Spanish (native).