LUAN BORELLI

EDUCATION

PhD in Economics, UC Berkeley *2025 – Today*
Berkeley Fellow

Master's in Economics, FGV/EPGE *2022 – 2024*
Title: *Semialgebraic Identification under Polynomial Moment Restrictions.* **Advisor:** Marcelo J. Moreira.
Committee: Whitney Newey (MIT), Mahrad Sharifvaghefi (Pitt), Marcelo Sant'Anna (EPGE).

Bachelor's in Economics, Ibmec Business School *2017 – 2020*
Ibmec Undergraduate Thesis Award 2020
Ibmec Education Stars Merit Scholarship 2020

ACADEMIC POSITIONS

Research Assistant, FGV/EPGE & University of Pittsburgh, 2023–2025. Research assistant for professors Marcelo J. Moreira (EPGE), Mahrad Sharifvaghefi (Pitt), and Whitney Newey (MIT) on a predoctoral research project related to the computation of Continuously Updating GMM Estimators (CUE), jointly funded by the University of Pittsburgh and FGV/EPGE.

Research Assistant, Institute for Applied Economic Research (Ipea), 2019–2022. Initially, as part of the Ipeadata project, I led the development of the `IpeadataPy` package, designed to query, visualize, and extract data and metadata from the Ipeadata database directly via Python code. `IpeadataPy` has since accumulated over 210,000 downloads and remains actively maintained by me. Later, at the Directorate of Macroeconomic Studies and Policies (DIMAC), I focused on applied econometric and macroeconomic research, resulting in the publication of three peer-reviewed papers in Brazilian academic journals.

WORK IN PROGRESS

Automatic Identification under Polynomial Moment Restrictions, joint with Guilherme Exel, and Marcelo J. Moreira.
Optimal Identifying Instrument Learning, joint with Guilherme Exel, and Marcelo J. Moreira.
Global Optimization for CUE, joint with Guilherme Exel, Marcelo J. Moreira, Whitney K. Newey, and Mahrad Sharifvaghefi.
Global Optimization for Nonlinear CUE, joint with Guilherme Exel, Marcelo J. Moreira, and Mahrad Sharifvaghefi.

PUBLICATIONS

PEER–REVIEWED

[EN] *Forecasting Brazilian GDP under Fiscal Foresight with a Noncausal Fiscal VAR*. Brazilian Review of Econometrics. 2023.
[EN] *The Macroeconomics of Epidemics: Interstate Heterogeneity in Brazil*. EconomiA. 2021.
[PT] *Lack of Coordination Between Federal and State Levels in Combatting COVID-19 in Brazil*. Cadernos ENAP. 2021.

BOOK REVIEWS

[PT] *Do Macroeconomic Laws Exist?* Valor Econômico. 2022. A review of *The Methodology of Empirical Macroeconomics*.

MEDIA IMPACT

[EN] *Interstate Heterogeneity and Combatting COVID-19 in Brazil*. CEPR VoxEU Column. 2020.
[PT] *The Fight Against COVID-19 Must Consider the Unique Characteristics of Each State*. Ipea Press. 2020.
[PT] *Study Finds Lack of Coordination During COVID-19 Affected Nation's Health and Economy*. O Globo. 2021.

TEACHING EXPERIENCE

Graduate TA. Statistics II (2024, 2023). Assisted Professor Marcelo J. Moreira by grading exams and leading TA sessions.
Undergraduate TA. Linear Algebra (2020), Econometrics I (2020, 2019), Calculus III (2018), Microeconomics II (2018).

SCHOLARSHIPS, FELLOWSHIPS, AND RESEARCH GRANTS

University of California, Berkeley 2025–2026. Berkeley Fellowship for Graduate Study. $ 45,000.00.

University of Pittsburgh. 2024–2025. Research grant for a predoctoral research assistantship. R$ 25,200.00/year.

FGV/EPGE. 2024–2025. Research grant for a predoctoral research assistantship. R$ 25,200.00/year.

FGV/EPGE. 2022, 2025. Cash bonus for peer–reviewed publication, FGV/EPGE. R$ 15,000.00.

CAPES/CNPq. 2022–2024. CAPES/CNPq scholarship. Master's program in Economics, FGV/EPGE. R$ 25,200.00/year.

ENAP. 2020. Project *"Implications of the Lack of Coordination Between Federal and State Levels in Managing COVID-19 Pandemic Response Policies in Brazil"* (in Portuguese) awarded with a research grant by the National School of Public Administration (ENAP). Ranked 5th out of 228 research projects submitted. R$ 15,000.00.

CONFERENCES AND ACADEMIC SERVICES

Econometrics in Rio. 2024. Organizing committee. Host to professors Alberto Abadie (MIT), Andrei Zeleneev (UCL), Mahrad Sharifvaghefi (Pitt), Michael Leung (UCSC), Jessie Li (UCSC), and Whitney Newey (MIT).

International Congress of Mathematicians. 2018. Support team. Volunteer selected through a recruitment process (IMU).