

Favio Leiva

PhD Student · Graduate School of International Development · Nagoya University, Japan
leiva.cardenas.favio.sergio.w2@s.mail.nagoya-u.ac.jp | favioleiva.github.io | Nagoya, Japan

Peruvian economist specialising in spatial econometrics, natural resource economics, and regional development. Current research examines the causal effects of mining on convergence, inequality, and environmental degradation across Peruvian districts (2000-2024) using satellite remote sensing data, Bayesian Model Averaging, and machine-learning clustering. Affiliated Researcher at the Center for Mining and Sustainability Studies and the Center for China and Asia-Pacific Studies, Universidad del Pacífico.

Education

PhD in International Development (candidate) Apr 2024 - Mar 2027 (expected)

Graduate School of International Development (GSID), Nagoya University, Japan

Dissertation: “*Essays in Mining and Regional Development in Peru: Spatial Methods and Satellite Data*”

Supervisor: Prof. Carlos Méndez · Committees: Prof. Shimizutani, Prof. Someya · Passed D2 examination, Nov 2025.

Research Student, GSID Apr 2023 - Mar 2024

Nagoya University, Japan

Master of Arts in International Development Mar 2019

GSID, Nagoya University, Japan (MEXT Scholarship)

Thesis: “*Public Debt in Peru 1824-2016: Sustainable Development and Sustainable Finance*”

Research Student, GSID Apr 2016 - Mar 2017

Nagoya University, Japan (MEXT Scholarship)

Professional Degree in Economics Sep 2014

Universidad del Pacífico, Lima, Peru - Mention in Public Sector Management

Bachelor of Economics Feb 2014

Universidad del Pacífico, Lima, Peru

Research paper: “*Public Debt, Public Investment and Growth in Peru 1950-2011*”

Publications — Author & Co-author

Peer-reviewed Journal Articles

- Leiva, F. (2026). A two-sector model of resource depletion in Peruvian mining districts: a Bayesian Model Averaging calibration and 3D phase diagram analysis. **Resources Policy**, 114, 105863. [\[Link\]](#)
- Beltran, A., Cruz Saco, M.A., Leiva, F., & Koechlin, M. (2025). Trapped by tradition: Gender and occupational segregation in Peru. **Social Politics**, 1-30. [\[Link\]](#)
- Leiva Cárdenas, F. (2025). Guinea pig breeding, consumption, prices, and exports in Peru: What do the statistical sources say? **Journal of Business**, 16(1), 101-129. [\[Link\]](#)
- Leiva, F. (2023). Más de 100 años de historia comercial entre Perú y Japón. **Revista Política Internacional**, 134, 240-262. [\[Link\]](#)
- Alarco, G., Castillo, C., & Leiva, F. (2019). Desigualdad factorial, personal y de la riqueza en Perú, 1950-2016. **Revista Problemas del Desarrollo**, 50(197), 31-58. [\[Link\]](#)

Preprints & Working Papers

- Leiva Cárdenas, F. (2025). A two-sector model of resource depletion: A numerical analysis of the 3D phase diagram. **SSRN Electronic Journal**. doi:10.2139/ssrn.5508399

Book Chapters

- Leiva, F. (2024). Peru's debt to GDP ratio, wars and earthquakes: 1822-2022. In *Risks and Challenges for Public Debt Management: Inflation, Markets and Climate* (pp. 133-160). GSID, Nagoya University. [\[Link\]](#)
- Cruz Saco, M.A., Gil, M., & Leiva, F. (2023). Transición económica y trampa del ingreso medio en el Perú: un enfoque de largo plazo, 1876-2017. In Y. Zhang & R. Santa Gadea (Eds.), *En búsqueda de un camino para evitar la trampa del ingreso medio: los casos de China y Perú* (pp. 65-100). BUP, Lima. [\[Link\]](#)
- Cruz Saco, M.A., Gil, M., & Leiva, F. (2021). Transition and the middle-income trap in Peru: A long-term perspective since the late 19th century. In Y. Zhang & R. Santa Gadea (Eds.), *Finding a Way to Avoid the Middle-Income Trap: The Cases of China and Peru* (pp. 81-115). China Social Sciences Press, Beijing. [\[Link\]](#)

Books & Reports

- Alarco, G., Castillo, C., & Leiva, F. (2019). *Riqueza y desigualdad en el Perú: visión panorámica*. Oxfam, Lima. ISBN 978-612-47775-4-7. [\[Link\]](#)
- Cruz Saco, M.A., Seminario, B., Leiva, F., Moreno, C., & Zegarra, M.A. (2018). *El porvenir de la vejez en el Perú: demografía, empleo y ahorro*. Fondo Editorial, Universidad del Pacífico. ISBN 978-9972-57-399-6. [\[Link\]](#)
- Cruz Saco, M.A., Seminario, B., Leiva, F., Moreno, C., & Zegarra, M.A. (2018). *La desestructuración del sistema peruano de pensiones* (Documento de Investigación No. 10). Universidad del Pacífico. ISBN 978-9972-57-397-2. [\[Link\]](#)

Research Assistance (non-authorship contributions)

The following publications were produced with the support of my research assistance (data compilation, bibliographic research, and editing). I am not listed as author or co-author.

- Paus, E., Abugattás, L., & Cruz Saco, M.A. (2023). Global value chains in agriculture and the middle-income trap: A framework applied to Peru's boom. **The Journal of Development Studies**, 1-18. [\[Link\]](#)
- Alarco, G. (2016). Distribución factorial del ingreso y regímenes de crecimiento en América Latina, 1950-2012. **Revista Internacional del Trabajo**, 135(1), 79-103. [\[Link\]](#)
- Santa Gadea, R. (2020). *China and Asia-Pacific in the world economy: Trends and opportunities for Peru* (Working Paper No. 1). Center for China and Asia-Pacific Studies, Universidad del Pacífico. [\[Link\]](#)

Conferences & Presentations

- Leiva, F. *Monitoring Mining Investment and Labor in Peruvian Districts: Exploratory Spatial Analysis using Administrative Registers and Census Data*. **46th Annual Conference of the Japan Association for Latin American Studies (JALS)**. Japan. 2025.
- Leiva, F. *A Two-Sector Model of Resource Depletion: A Numerical Analysis of the 3D Phase Diagram*. **JASID-Tokai Conference for Young Researchers**. Japan. 2025.
- Leiva, F. *A Two-Sector Model of Resource Depletion: A Numerical Analysis of the 3D Phase Diagram*. Poster presentation. **36th JASID Annual Conference** (Japan Society for International Development). Hiroshima University, Japan. 2025.
- Leiva, F. *Peru's Debt to GDP Ratio, Wars and Earthquakes: 1822-2022*. **3rd Public Debt Management Conference - Risks and Challenges for Public Debt Management: Inflation, Markets and Climate**. Washington DC, USA. Oct 3-4, 2024. Paper published in conference proceedings. [\[Proceedings\]](#)
- **International Symposium “Enhancing Mutual Understanding between China and Latin America”** — Book launch and co-authored chapter presentation (IWEP-CASS / Universidad del Pacífico). 2021.
- **REDAP Bicentenario Conference** — “*Aportes para la Agenda de Relaciones del Perú con Asia-Pacífico en el siglo XXI*”. Editorial coordination and supervision of conference papers. Lima, Peru. 2021.

Professional Experience

Assistant to the Director — Center for China and Asia-Pacific Studies

Mar 2019 - Mar 2021

Universidad del Pacífico, Lima, Peru

- Coordinated academic delegations from CEIBS, ILAS-CASS, IWEP-CASS, Tsinghua University, and Korea University; organised public conferences and internal meetings with diplomatic delegations (Korea, Indonesia, Thailand, China, Australia).
- Co-authored Chapter 4 of book published with China Social Sciences Press (IWEP-CASS); launched at the International Symposium on China-Latin America relations.
- Compiled and edited the REDAP Bicentenario working paper; supervised practitioners on the final manuscript.
- Managed budget proposals, social media (LinkedIn, Facebook), and the centre's website.

Research Assistant to Prof. María Amparo Cruz Saco

Aug 2015 - Mar 2016

Universidad del Pacífico, Lima, Peru

- Contributed to literature review and data compilation on personal savings and labour in Peru since 1940; assisted in writing articles on social security from a historical cross-country perspective.
- Produced GIS maps from census data; designed a historical map of the Viceroyalty of Peru.

Consultant — Economic Initiatives

Dec 2013 - Jul 2015

terre des hommes-schweiz (tdh-ch), Lima, Peru

- Developed a strategic framework for a rural youth guinea pig enterprise, designing commercial strategies for major Peruvian supermarkets and hotels.
- Designed marketing videos, production plans, and demand projections for commercialisation to major Peruvian supermarkets and hotels.
- Prepared indicator baselines for an artistic circus programme for at-risk youth in Lima.

Research Assistant to Prof. Germán Alarco

Sep 2012 - Jul 2013

Graduate School, Universidad del Pacífico, Lima, Peru

- Supported research on factor income distribution in Latin America and petroleum project evaluation for Petroperú (upstream/downstream investment and risk benchmarking against major international oil & gas companies).

Pre-professional Intern — National Dept. for Monitoring & Evaluation

Jan 2012 - Apr 2012

National Center for Strategic Planning (CEPLAN), Lima, Peru

- Assisted in drafting and updating Peru's National Strategic Development Plan to 2021; compiled indicators for the Peru-Ecuador Binational Plan.

Teaching Experience

Spanish Teaching Assistant

Apr 2017 - Jan 2019

Nagoya University, Japan

English Instructor

Apr 2017 - Jan 2018

The English Salon in Nagakute, Japan

Mathematics Tutor — Mathematics II & Introduction to Mathematics

Jan 2010 - Aug 2011

Universidad del Pacífico, Lima, Peru

Technical Skills

Econometrics & Statistics	Spatial econometrics (LISA, Moran's I, spatial weight matrices), Bayesian Model Averaging, panel data, ML clustering, STATA, EViews
Programming	Python (<i>Data Analyst by DataCamp</i>), R (<i>Data Analyst by DataCamp</i>), Julia, REDATAM (cert. INEI/ENEI, Oct 2023), L ^A T _E X
GIS & Remote Sensing	ArcGIS (cert. UC Davis & UNI Peru), GeoDa, satellite data processing
Other software	MS Office (advanced), MS Project, Pro Tools, Adobe Illustrator / Photoshop / Premiere
Languages	Spanish (native), English (TOEFL 106 / C1), Japanese (basic)

Awards & Fellowships

- **MEXT Scholarship** (Japan Ministry of Education, Culture, Sports, Science & Technology) - Research Student & PhD Programme, Nagoya University. Mar 2023 - present.
- **MEXT Scholarship** (Japan Ministry of Education, Culture, Sports, Science & Technology) - Research Student & Master's Programme, Nagoya University. Apr 2016 - Mar 2019.

Affiliations

- Affiliated Researcher, Center for Mining and Sustainability Studies, Universidad del Pacífico (2023-present).
- Affiliated Researcher, Center for China and Asia-Pacific Studies, Universidad del Pacífico (2019-present).
- Student Representative, University Assembly and Board of Directors, Universidad del Pacífico (Jun 2011 - Jun 2012).

Online Presence

favioleiva.github.io | [Google Scholar](#) | [ResearchGate](#) | [ORCiD](#) | [LinkedIn](#)

Last updated: February 2026. References available upon request.