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# Favio Leiva

PhD Student · Graduate School of International Development · Nagoya University, Japan  
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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

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**PhD, International Development** Mar 2027 (exp.)

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

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

**Research Student, GSID** Apr 2023 - Mar 2024

*Nagoya University, Japan*

**M.A., 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

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### 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, 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). CSSP, 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, UP. 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. [\[Link\]](#)

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## 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. [\[Link\]](#)
- Santa Gadea, R. (2021). La economía china en la globalización: tendencias y oportunidades para el Perú. In A. Beltrán, C. Sanborn, & G. Yamada (Eds.), *En búsqueda de un desarrollo integral: 20 ensayos en torno al Perú del Bicentenario* (pp. 168-198). Centro de Investigación de la Universidad del Pacífico. [\[Link\]](#)
- 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. [\[Link\]](#)
- Alarco, G. (2016). Distribución factorial del ingreso y regímenes de crecimiento en América Latina, 1950-2012. **Revista Internacional del Trabajo**, 135(1), 79-103. [\[Link\]](#)
- Alarco, G. (2014a). Wage share and economic growth in Latin America, 1950-2011. **ECLAC Review**, 113, 43-60. [\[Link\]](#)
- Alarco, G. (2014b). Real salaries, the balance of payments and the potential product in Latin America, 1980-2011. **Problemas del Desarrollo. Revista Latinoamericana de Economía**, 179(75), 65-90. [\[Link\]](#)

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## 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.

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## 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

<b>Econometrics &amp; Statistics</b>	Spatial econometrics (LISA, Moran's I, spatial weight matrices), Bayesian Model Averaging, panel data, ML clustering, STATA, EViews
<b>Programming</b>	Python ( <i>Data Analyst by DataCamp</i> ), R ( <i>Data Analyst by DataCamp</i> ), Julia, REDATAM (cert. INEI/ENEI, Oct 2023), L <sup>A</sup> T <sub>E</sub> X
<b>GIS &amp; Remote Sensing</b>	ArcGIS (cert. UC Davis & UNI Peru), QGIS, GeoDa, satellite data processing in Google Earth Engine.
<b>Other software</b>	MS Office (advanced), MS Project, Pro Tools, Adobe Illustrator / Photoshop / Premiere
<b>Languages</b>	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](https://favioleiva.github.io) | [Google Scholar](#) | [ResearchGate](#) | [ORCiD](#) | [LinkedIn](#)

*Last updated: February 2026. References available upon request.*