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FIELDS OF INTERESTS: Macroeconomics, Economic Growth, Productivity, Energy, Environment and Climate Change.

AFFILIATION

Banco Central de Chile, Economic Studies Area.

Senior Economist at Economic Analysis Department, March 2024 – Present.

EDUCATION

University of Chicago, M.P.P. concentration Energy, Environment and Economics, 2019.

Pontificia Universidad Católica de Chile, M.A. Macroeconomics, 2010.

Universidad Católica Boliviana, B.S. Economics, 2005.

PAST WORK EXPERIENCE

Senior Economist, Energy, Environment and Economics department at Centro Latinoamericano de Políticas Económicas y Sociales (CLAPES UC), *Pontificia Universidad Católica de Chile*, 2020 -2023.

Research Consultant, *The World Bank*, 2022.

Research Consultant, *Inter-American Development Bank*, 2021.

Research Consultant, *Conservancy Strategy Fund*, 2021.

Manager of Economic Studies, *Ministry of Finance – Government of Chile*, 2018 – 2020.

Research Assistant, Prof. Koichiro Ito, *University of Chicago*, 2017 – 2019.

Research Assistant, Prof. Ariel Kalil, *University of Chicago*, 2018 – 2019.

Research Assistant, Prof. Luis Martinez, *University of Chicago*, 2017 – 2018.

Coordinador de Estudios, *Ministry of Finance – Government of Chile*, 2019 – 2020.

Senior Economist Associate, Centro Latinoamericano de Políticas Económicas y Sociales (CLAPES UC), *Pontificia Universidad Católica de Chile*, 2014 -2017.

Economic Advisor, *Ministry of Finance – Government of Chile*, 2012 – 2014.

Adjunct Assistant Professor & Academic Coordinator, Master of Applied Macroeconomics Program, *Pontificia Universidad Católica de Chile*, 2010 -2012.

Research Assistant, Prof. Juan Eduardo Coeymans, *Pontificia Universidad Católica de Chile*, 2008 – 2009.

Economic Policy Analyst, Unidad de Análisis de Políticas Económicas y Sociales (UDAPE),
Ministry of Economic Planning and Development – Government of Bolivia. 2005 – 2008.

PUBLICATIONS

- [9] **“Acceso a datos: beneficios y desafíos para el funcionamiento económico del mercado eléctrico.”**, 2025, Revista de Derecho Administrativo UC.
- [8] **“Forest Fires in Chile: Evaluation Of The Economic And Environmental Impact On Natural Capital”**, 2024, International Journal of Biological and Nature Science, 4, 2-15 (with Isidora Lara and Joaquin Vial).
- [7] **“The Investment Effects of Market Integration: Evidence from Renewable Energy Expansion in Chile”**, 2023, Econometrica, Volume 91, issue 5 (with Koichiro Ito and Mar Reguant).
- [6] **“Weather and wine quality in Chile’s Casablanca Valley”**, 2023, Journal of Wine Research, Volume 34, issue 2 (with Ventura Charlin, Arturo Cifuentes y Felipe Larraín).
- [5] **“Bolivia's Net Zero path: Investment needs, challenges, and opportunities”**, 2022, Frontiers in Climate, Volume 4, (with Alfonso Malky y Lykke E. Andersen).
- [4] **“Economic impact of Bolivia's NDC mitigation measures”**, 2022, Revista Latinoamericana de Desarrollo Económico, issue 37 (with Alfonso Malky Harb, Sergio Bobka, Juan Carlos Torrico, Marek Antosiewicz, Carla Mendizábal y Sophía Espinoza).
- [3] **“Territorial data for pandemic management: the case of COVID-19 in Bolivia”**, 2020, Revista Latinoamericana de Desarrollo Económico, issue 34, (with José Acuña y Lykke Andersen).
- [2] **“Copper mining productivity: lessons from Chile”**, 2018, Journal of Policy Modeling 40 (1), 182-193 (with Hernán de Solminihac and Rodrigo Cerda).
- [1] **“The Impact of a Carbon Tax on the Chilean Electricity Generation Sector”**, 2015, Energies, 8(4), 2674-2700, with (C. Benavides, M. Diaz, R. Fuentes, G. García, R. Palma Behnke and C. Ravizza).

POLICY REPORTS

- [7] **“Recuadro I.2: Perspectivas De Inversión En Grandes Proyectos”**, 2025, Informe de Política Monetaria – Recuadro: Perspectivas de inversión en grandes proyectos - junio 2025 (with A. Claro, L. Gonzales, F. Kegevic y D. Vivanco).
- [6] **“Recuadro I.1: Costo De Electricidad Y Traspaso A Precios De Firmas”**, 2024, Informe de Política Monetaria – Recuadro: impacto en la inflación del descongelamiento de las tarifas eléctricas - junio 2024 (with Sebastián Andalaft, Sofía Bauducco, Luis Gonzales, Gustavo González, David Kohn, Dagoberto Quevedo y José Elías Rishmaw).
- [5] **“Planning Climate Action in Cities and Regions: Towards Carbon Neutral and Resilient Territories in the face of Climate Change”**, 2023, Inter-American Development Bank (with Kayla Rakes, Carlos Urriola-Cuevas, Andrés Pica-Téllez, Gonzalo Pérez,

Matias Sime, Sandra Briceño, Vladimir Figueroa, Jordan Harris, Hipólito Talbot-Wright and Adrien Vogt-Schilb).

- [4] **“Economic Instruments for Chile’s energy transition towards NDC objectives”**, 2022, World Bank Group (with Alejandro Roberto Banados Palma, Carlos Martin Benavides, Manuel Diaz, Hermann Gonzalez, Francisco Gracia, Marcia Montedonico, Rodrigo Salvador Garcia Palma and Rigoberto Torres).
- [3] **“Options to Achieve Carbon Neutrality in Chile: An Assessment Under Uncertainty”**, 2021, Inter-American Development Bank (with Carlos Benavides, Luis A Cifuentes, Manuel Díaz, Horacio Gilabert, Diego González, David G Groves, Marcela Jaramillo, Catalina Marinkovic, Luna Menares, Francisco Meza, Edmundo Molina, Marcia Montedónico, Rodrigo Palma, Andrés Pica, Cristian Salas, Rigoberto Torres, Sebastián Vicuña, José Miguel Valdés and Adrien Vogt-Schilb).
- [2] **“Paving the Path: Lessons from Chile’s Experiences as a Sovereign Issuer for Sustainable Finance Action”**, 2021, World Bank, (with Sebastien Boitreaud, Teal Emery, Bryan Gurhy, Felipe Larrain and Cindy Paladines).
- [1] **“Green Growth Opportunities for the Decarbonization Goal for Chile: Report on the Macroeconomic Effects of Implementing Climate Change Mitigation Policies”**, 2020, World Bank, (with Marek Antosiewicz, Piotr Lewandowski and Nicolás de la Maza Greene).

WORKING PAPERS

- [5] **“Zero Energy Day: How Nationwide Blackouts Affect the Economy”**, 2026 Working Papers Central Bank of Chile 1078, Central Bank of Chile.
- [4] **“Exposición de la Banca en Chile a los Riesgos Financieros relacionados al Clima: Riesgos Físicos y de Transición”**, 2025, Working Papers Central Bank of Chile 1040, Central Bank of Chile.
- [3] **“Taxonomies Of The Sustainable Finance”**, 2024, ClapesUC working paper (with Isidora Lara).
- [2] **“Economic effects of adaptation policies in Chile”**, 2024, ClapesUC working paper (with Isidora Lara).
- [1] **“Banks exposure to climate related financial risks”**, 2023, mimeo (with Cristian Rojas).

WORK IN PROGRESS

- [3] **“Renewable Energy and firms’ relocation”**, (with Koichiro Ito).
- [2] **“Inflation impacts of energy price stabilization policies: Are we considering all the effects?”**, (with Francisco Muñoz).
- [1] **“The Global Cost of Internationally Uncoordinated Environmental Policies”**, (with Johann Caro-Burnett).

BOOKS/CHAPTERS

- [2] **“Chile: Promoting renewable energy and the risk of energy poverty in Chile”**, 2019, Narratives of Low-Carbon Transitions, (with Rodrigo Cerda).
- [1] **“Reflections on Bolivian economic history from the environmental perspective”**, 2018, Los desafíos de Desarrollo productivo en el siglo XXI, Universidad Católica Boliviana.

TEACHING

Micro – Macroeconomics of Climate Change (Master Applied Economics), PUC – Chile, 2020 – present

Economic Regulation (Master Applied Economics), PUC – Chile, 2020-2021

Intermediate Macroeconomics (Undergrad), PUC-Chile, 2010-2017

Econometrics (Undergrad), PUC-Chile, 2012

GRANTS, AWARDS AND HONORS

Promotion to Senior Economist Level 18, Central Bank of Chile, 2026 (Senior Professional Career Path)

Outstanding Researchers award, Central Bank of Chile, 2024 - 2028

The Joint Japan/World Bank Scholarship Program (JJ/WBGSP) - Master of Public Policy, Concentrations in Energy, Environment and Economics, 2017 – 2019

Global Voices Fellowship at International House award UChicago 2018 – 2019

Agencia Internacional de Cooperación de Chile award, 2008 - 2009

PROFESSIONAL ACTIVITIES

Conferences: NBER (2026) – Energy Markets and the Macroeconomy, NBER (2022) - Industrial Organization Program Meeting, Spring 2022, February 4-5, Stanford. The World Bank (2022) Infra4dev Conference: Infrastructure, Recovery Growth: Building out from the Pandemic, March 3-4. Berkeley HAAS (2022) - POWER Conference, Spring 2022, March 11, California. NBER (2022) - Environment and Energy Economics Program Meeting, Spring 2022, March 24-25, Cambridge MA,. The World Bank (2021) - Seminar: Paving the Path:Lessons from Chiles Experiences as a Sovereign Issuer for Sustainable Finance Action, May 26, Santiago Chile,. University of Columbia - SDSN (2020) - Seminar: International Conference on Sustainable Development (ICSD) Best Paper Award, September 25,.The World Bank (2020) - Seminar: Green growth opportunities for the decarbonization goal for Chile, October 15, Santiago Chile.

LANGUAGES: English (fluent), Spanish (native).

NATIONALITY: Bolivia.