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Academic Appointment

- **2022 - Present:** Associate Professor, Universidad Santo Tomás, Chile.
- **2011 - 2022:** Assistant Professor, Universidad Santo Tomás, Chile.

Education

- **2020. Ph.D. in Economics**, State University of New York at Binghamton, U.S.A. Visiting Student at Cornell University, U.S.A. (Fall 2019).
- **2011. M.Sc. in Economics** (Distinction), Universidad de Chile, Chile.
- **2005. Bachelor in Environmental Engineering** (Ranked 1st in the cohort), Universidad de Medellín.

Research Interests

- **Primary:** Productivity Analysis & Econometrics.
 - Structural identification of firm-level production functions.
 - Analysis of firms and market structure.
 - Semi/Nonparametric Econometrics.
- **Secondary:** Macroeconomics & Labor Economics.
 - Unemployment fluctuations (Modeling approaches using Search-and-Matching, Heterogeneous Agents).

Publications

- (2024) Racial Disparities in Labor Outcomes: The Effects of Hiring Discrimination over the Business Cycle. With Florian Kuhn. *Economic Analysis and Policy*.
- (2023) Crime under-reporting in Bogotá: a spatial panel model with fixed effects. With S. Kumbhakar and L. Sandoval. *Empirical Economics*.
- (2023) The effect of crop insurance in Ecuadorian rice farming: a technical efficiency approach. With M. Castro, A. Reyes, and A. Villegas. *Agricultural Finance Review*.
- (2015) Export diversification dynamics in Latin America. With Agosin, Manuel R. In *Handbook on Trade and Development*. Edited by Morrissey, O., López, R. A., and Sharma, K. Edward Elgar Publishing.

Working Papers

In productivity analysis and econometrics:

- *Spillovers, efficiency, and human capital in rice production in Ecuador, a semiparametric smooth coefficient spatial autoregressive stochastic frontier approach*. With M. Castro, A. Reyes, A. Villegas. (2023).
- *Energy Costs, Productivity, and Market Power* (2020).

In macroeconomics & labor:

- *Decoupling in Latin America: Real Wages, Return to Schooling, and Productivity* (2023).

Other Non Peer-Reviewed Publications

- Role as Editor: The China-Chile Business Bulletin. *Institutions:* The China-Chile Research Center at GDUFS and the UST, 2015.

Referee for Journals

- *Research in Labor Economics, Empirical Economics*

Seminar and Conference Presentations

- 2023: Presented at The 2nd Inter-Conference Symposium, 6to Congreso Regional de Economía Agraria, and the 1st Latin-American Workshop on Productivity and Efficiency (Montevideo, Uruguay).
- 2022: Presented at the Society for Economic Measurement - SEM (Calgary, Canada); and at the Latin American and Caribbean Economic Association - LACEA (Lima, Peru).
- 2021 (online): Participated in the Encuentro Anual de la Sociedad de Economía de Chile - SECHI; at the Academic Seminar at the Department of Economics, Universidad de Santiago de Chile - USACH; and at ENEFA.
- 2020 (online): Academic Meeting at Guangdong University of Foreign Studies and UST.
- 2019: Presented at the Latin American and Caribbean Economic Association - LACEA (Mexico).
- Others (before the Ph.D.): Presentations at East China Normal University, Faculty of Finance and Statistics (Shanghai, China, 2014); Beijing Normal University, Emerging Markets Institute (Beijing, China, 2014); Guangdong University of Foreign Studies, GRIIS (Guangzhou, China, 2014); Encuentro Anual de la Sociedad de Economía de Chile - SECHI (Chile, 2011); National Meeting of Schools and Administration Faculties - ENEFA (2011, 2012, 2013).

Research Grants and Related Projects

- **Eficiencia y Contagio en la Industria Financiera en Chile:** Awarded by the Commission for the Financial Market (CMF), Chile, in a competitive call for research projects in 2023. The project is scheduled to start in March 2024 and is expected to be completed by September 2025.
- **Spillovers and Efficiency: A Spatial Autoregressive Stochastic Frontier Panel Data Model with Fixed Effects:** Awarded by Universidad Santo Tomás, Chile, under the *Concurso de Investigación Iniciación 2022*. Served as Principal Researcher. Completed in December 2022.

Teaching Experience

at Universidad Santo Tomás (UST), Chile

- Undergraduate level: Econometrics; Macroeconomics (2011-2015 and 2021-Present).
- Postgraduate level: Introductory Macroeconomics of Latin America - A Short Summer Course for New Zealand Exchange Students (January 2024); International Economics (M.A. in International Business Management, 2014).

at Universidad de Santiago de Chile (USACH), Chile

- Postgraduate level: Econometrics II, Master in Economics (2022-II, 2023-II). [Link to the website](#).
- Postgraduate level: Computational and Numerical Methods in Econometrics (Elective Course, Master in Economics, 2022-I). [Link to the syllabus](#).

at SUNY Binghamton, USA

- Undergraduate level: Econometrics (Spring 2019), Principles of Macroeconomics (Summer 2019), Principles of Microeconomics (Fall 2017).
- Guest lecture: Econometrics (Ph.D. Core).
- Teaching Assistant: Econometrics (Ph.D. Core and Undergraduate); Macroeconomics (Ph.D. Core and Undergraduate); Advanced Macroeconomics (Ph.D. Field Course); Economic Forecasting - Time Series (Master's Program in Economics).

at Universidad Diego Portales, Chile

- Undergraduate level: Macroeconomics (2009-2012).

Student Supervisor

- Chair (Postgraduate, Thesis Finished): (1) K. Abarca; (2) J. Valdes; (3) D. Estay.; (4) G. Gutiérrez; (5) A. Hinojosa.
- Committee Member (Undergraduate Thesis): (1) N. Labrin.

University Services

- Coordinator of the Field of Economics for the School of Commercial Engineering at UST (current).
- Temporary Coordinator of Research for the School of Commercial Engineering at UST (2023).
- Coordinator of the Research Seminar Series at the Faculty of Business and Economics at UST (2021-2023).
- Director of the China-Chile Research Center at UST (2014-2015; 2022).
- Involved in promoting international partnership agreements at UST (e.g., joint teaching with the University of St. Thomas in Houston, USA).
- Organized talk series and public lectures for outreach and public engagement. Recent topics include:
 - The Future of Work, featuring guest J. Lafortune from Universidad Católica, Chile (2023).
 - Green Logistics, featuring guest S. Hohmann from Westfälische Hochschule, Germany (2022).
 - Fintech Industry in Chile and Regulation, featuring guests A. Puente from the Ministry of Finance and R. Gago from FinteChile (2022).
 - Machine Learning and Artificial Intelligence: Present and Future Business Perspectives, featuring guest Alexis Montecinos from MIT, USA (2021).
 - Solar Energy and Economy, Potential Challenges in Carbon Reductions, featuring guests L. Gonzalez from CLAPES Universidad Católica and C. Millan from Cerro Dominador (2021).
- Engaged in social and media outreach:
 - Appearances on CNN-Chile (Agenda Económica).
 - Contributions to Diario Financiero, Revista Dinero, El Pulso.
- Coordinator of the Qualifying/Comprehensive Exam for the School of Commercial Engineering at UST (2011-2014).

Other Experience

- Research Assistant for the project Fondecyt Regular 1085014, led by Manuel Agosin at Universidad de Chile, 2009-2010.
- Prior to academia: Served as an Engineer and Consultant in the gold and coal mining industry in Colombia, including roles at companies such as Mineros S.A. and Mineros Nacionales, from 2005 to 2008.

Honors & Awards

- **Binghamton University:**
 - Alice E. Trost Economics Dissertation Award, 2020.
 - Academic scholarship/assistantship for Ph.D. in Economics (2015-2020).
- **Universidad Santo Tomás:** Scholarship (Beca de Perfeccionamiento, 2015-2020).
- **Universidad de Chile:** Academic scholarship (2008-2009).
- **Universidad de Medellín:** Athletic scholarship.

Other Skills

- **Software and Programming:** Proficient in Julia, Matlab, R, Stata, Python, Gauss; familiar with \LaTeX , Markdown, HTML (basic).
- **Languages:** English (fluent), Spanish (native).