Miguel Del Valle

madelvallef@gmail.com • miguel-delvalle.com • Google Scholar

Research Interests: Spatial Economics · Production Networks · International Trade

Education

Master in Economics, *graduated with highest distinction*, Universidad de Chile **2026**
Thesis: *The Geographic and Sectoral Impact of Productivity* (advisors: Eduardo Engel and Luis Felipe Céspedes).
Graduate coursework: Microeconomics I–II, Macroeconomics I–II, Econometrics I–II, Real Analysis.

Bachelor in Economics, *graduated with highest distinction*, Universidad de Chile **2022**
Ranked 1st in class of 131.

Working Papers & Work in Progress

The Geographic and Sectoral Impact of Productivity, R&R, *Journal of International Economics*
with Federico Huneeus
IDB Working Paper No. 1858. Data: Disaggregated Economic Accounts of Chile, publicly released by the Chilean Economic Development Agency.
Builds the first input-output matrix disaggregated by location within a country; location-sector interactions account for 73% of the dispersion in the GDP effects of local productivity shocks.

Port Development in Networks
with Federico Huneeus
Studies the optimal size and location of ports in production and transport networks using port disruptions, vessel tracking, and customs records, applied to the current impact and planned expansion of the Port of San Antonio.

Welfare Effects of Natural Disasters
Quantifies the local and aggregate welfare effects of natural disasters, linking firm-level administrative data to disaster records in a quantitative spatial model.

Research Experience

Research with Prof. Federico Huneeus (Duke University)
Ongoing coauthored projects *2026 – Present*

- **The Geography of Industrial Policy** *IDB technical cooperation in preparation*
  We combine microeconometric evaluation with a quantitative spatial model. Staggered event-study designs (heterogeneity-robust difference-in-differences) on the firm-level tax panel estimate the direct effects of every firm support program of the Chilean Economic Development Agency; the spatial general equilibrium model then propagates these effects to suppliers, customers, workers, and other locations, delivering each program's total effect and marginal value of public funds.
- **The Geographic and Sectoral Impact of Productivity: Revision** *Journal of International Economics*
  I built a matrix of 2.6 million worker flows across location-sector states, including non-employment, from employer-employee records, and am extending the model with labor-mobility frictions.

Inter-American Development Bank (IDB)
Junior Consultant for Prof. Federico Huneeus (Duke University) *2023 – 2025*

- **The Geographic and Sectoral Impact of Productivity**
  Coauthored with Prof. Huneeus, who supervised the project. I built the geographically and sectorally disaggregated economic accounts of Chile from the tax records of the universe of formal firms, using electronic firm-to-firm VAT invoices to measure input-output linkages across location-sector pairs and disciplining every flow to match the national accounts. I adapted and calibrated the spatial general equilibrium model of Caliendo et al. (2018) and solved the counterfactuals in Python.

Millennium Nucleus on the Evolution of Work (M-NEW)
Research Assistant for Prof. Pablo Egaña *2023 – 2024*

- **The Role of Technological Change in the Evolution of the Employment to Output Elasticity**
  I assembled data and implemented revisions for Egaña-delSol and Micco (2025, *Economic Analysis and Policy*). I also worked on the early design of the impact evaluation of two Chilean COVID-19 programs, Bono Alivio MYPE (transfers to small firms) and IFE Laboral (a hiring subsidy), with administrative data.

Additional research experience: Behavioral Economics Unit, National Consumer Service (SERNAC), 2021: design of randomized experiments.

Policy Reports

Economic Contribution of the Salmon Industry in Chile
with Francisco Carrillo and Ian Wood; technical advisor: Federico Huneeus
Report commissioned by the Chilean salmon industry association, 2026 (in Spanish). Summary.
Applies our disaggregated accounts and spatial general equilibrium model to quantify the industry's contribution to national and regional GDP and employment through supply-chain and income linkages.

Teaching Experience

Universidad de Chile
Teaching Assistant, 29 courses *2019 – 2025*

- **Graduate** (Master in Economics; Master in Public Policy), 2023–2025: Macroeconomics I (Prof. Eduardo Engel, ×3), Macroeconomics II (Prof. Humberto Martínez, ×2), Econometrics I (Prof. Valentina Paredes), Statistical Analysis (Prof. Esteban Puentes).
- **Undergraduate, Coordinating TA**, 2020–2023: Introduction to Microeconomics (×4), Statistics II, Behavioral Economics, Applied Economics.
- **Undergraduate**, 2019–2022: Statistics I (×3) and II (×5) (Profs. Eduardo Engel and Juan Díaz), Mathematical Methods III (×2), Macroeconomics III (Trade and Growth Theory), Microeconomics III (Labor Economics), Behavioral Economics, Introduction to Microeconomics, Introduction to Economics.

Awards and Scholarships

Merit Scholarship, Master in Economics, Universidad de Chile
Highest tuition award granted by the program *2023*

Ranked 1st in class of 131
Bachelor in Economics, Universidad de Chile *2022*

Honors Board, Universidad de Chile
Top 1% of the class *2019 – 2022*

Circle of Excellence, Universidad de Chile
Top 5% of the class *2018*

Presidential Scholarship, Chilean Ministry of Education *2018*

Skills

Languages: Spanish (Native), English (Advanced)

Coding: Python, Matlab (incl. Dynare), Stata, R, LaTeX

Tools: Git/GitHub; agentic coding (Claude Code, Codex) for research pipelines

Data: Chilean IRS microdata on firm-to-firm transactions, employer-employee links, and firm tax returns

Citizenship: Chilean *Last updated: October 2026*