

# Alvaro R. L. Espinoza Hernandez

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## CONTACT INFORMATION

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🌐 <https://alvaroeh.github.io>

## EDUCATION

### Colorado State University

🎓 Ph.D. Student (1st year), Agricultural and Resource Economics, 2024

### University of Chile

🎓 M.Sc. Applied Economics (*with distinction*), Faculty of Mathematics and Physics, 2018  
“Demand for differentiated varieties of rice and impacts on retailer and manufacturer profits”.

Advisor: Prof. Carlos Noton N.

🎓 Undergraduate degree in Business Engineering and Economics (*with distinction*)  
Faculty of Business and Economics

## TEACHING EXPERIENCE

### Colorado State University

#### Department of Agricultural and Resource Economics

Teaching Assistant, Fall 2024 - Spring 2025

✍ AREC 428 – Agricultural Business Management

✍ AREC 311 - Ag. and Res. Product Marketing

✍ AREC 202 - Ag. and Res. Economics

### University of Chile

#### Departament of Industrial Engineering

Teacher Assistant, Spring 2019

✍ Econometrics (*M.Sc. course*)

✍ Applied Economics for Management (*MBA course*)

## INTERESTS

Development, Agricultural Economics, Industrial Organization

## EMPLOYMENT AS RESEARCHER

### International Food Policy Research Institute (IFPRI)

Research Assistant at Markets, Trade and Institutions Division (Jan-22 - Aug-24)

Data processing, econometric analysis, literature reviews, reports writing, questionnaire design and training. Proficient in Stata, Matlab and Gretl. Knowledge of SurveyToGo.

- ✧ Impact Evaluation Feed The Future Guatemala Value Chains ([see working paper brief](#))  
*Analysis of panel data-set (1,700 households surveyed in the Western Highlands). Assessment of nutritional status indicators for children, diet diversity of women and children, homestead production crop diversity, food insecurity experiences, among other indicators.*
- ✧ Internal Migration in Central American countries ([see working paper](#))  
*Calibration of a propensity index model for within-country migration in Guatemala and Honduras using longitudinal surveys, and determination of most predictive variables.*
- ✧ The role of market concentration in the agri-food industry (finished)  
*Analysis of regional and country level data up-, mid-, and downstream agri-food value chains segments, and a survey of literature identifying data and evidence gaps in the relationship of market power and food systems, including implications on food security and nutrition or on environmental sustainability. Coauthor [IFPRI Discussion Paper 2168](#).*

## Projects for Institutions in Chile

Roles described for each project below (Jan-19 - Dec-21)

- ✧ Capacity and prospective demand for the reform of the Juvenile Justice Social Reintegration Service in Chile, for the M. of Justice, Inter-American Development Bank Cooperation Project (2021)  
*Leader of a small team (3). Perform econometric analysis of time series for demand of reintegration programs capacity and facilities for juvenile offenders, using administrative data and socioeconomic characteristics. Design of online survey for prosecutors and judges, perform interviews, report writing, team coordination tasks.*
- ✧ Evaluation of agricultural development credit programs for the Ministry of Finance Budget Office (2021)  
*Member of an assessment panel of external researchers. Perform interviews with policymakers, analysis of program design, targeting (small-farmers, risk), performance indicators, review of budgetary reports, report writing.*
- ✧ Climate adaptation and resiliency in small agriculture of dry coastal areas of O'Higgins Region for the M. of Agriculture (2020)  
*Design questionnaire and perform interviews (phone) on app. 25 households. Analyze administrative data of participation in different projects, and measure performance indicators.*
- ✧ Evaluation of public school infrastructure renovation and maintenance programs for the Ministry of Finance Budget Office (2020)  
*Member of an assessment panel of external researchers. Analysis of datasets with infrastructure characteristics of schools. Targeting and cost-benefit analysis.*
- ✧ Economic feasibility analysis for Asia-South America subsea optical fiber cable for the M. of Telecommunications (2019)

## Bureau of Agricultural Studies and Policy (ODEPA)

Research Associate (Feb-16 - Jun-18)

Applied research focused on assessment of competition and trade practices in agricultural and food markets, evaluation of regulatory and institutional arrangements to enhance competition, strengthen commercial relationships (producers, processors, retailers) and use of contracts in relevant agri-food value chains at the country and regional level.

Use of time series and cointegration models for market and vertical relationships analysis. Use of marketplace price surveys, international commodity indexes and foreign trade data-sets. Perform interviews with farmers, traders, processors and retailer representatives. Descriptive analysis of markets and industries. Coauthor ODEPA working papers:

- ✧ *"The candela wheat price index influence in the dry pasta value chain in Chile"*
- ✧ *"Updated price transmission relationships in the wheat-flour-bread value chain"*
- ✧ *"Food markets, bargaining asymmetries and trade practices"*
- ✧ *"Market transparency in agrifood value chains"*
- ✧ *"Rice value chain in Chile"*
- ✧ *"Measures of competitiveness in Chilean wine exports"*

## University of Chile, Department of Economics, INTELIS Center

Research Assistant (Jan-15 - Jan-16)

Assist data processing, programming, and reports writing in consultancy projects led by faculty of the Department:

- ✧ Impact evaluation of telecomm infrastructure and broadband access in isolated areas of Chile for the M. of Telecommunications (2016)
- ✧ Costs of institutional reform in the justice system of juvenile offenders for the M. of Justice (2015)
- ✧ Fuel distribution, market structure and price competition through web-based information

for the Chilean Energy Commission (2015)

CONFERENCE  
PRESENTATIONS

*“Price transmission in the beef industry in Chile”* presented in *“Agricultural Productivity, Climate Change and Sustainable Resource Management”*, IAAE Inter-Conference Symposium & V Congreso Regional de Economía Agraria, Talca, Chile, Oct. 17-18, 2017

*“Challenges in FAO Globally Important Agricultural Heritage Systems (GIAHS) territories: Case Study Native Potatoes in Chiloé Archipelago, Chile”* presented in *“Urbanization and Agricultural Modernization Development Conference in the Asia-Pacific Region”*, APEC & Institute of Agricultural Economics and Development, Chinese Academy of Agricultural Sciences, Beijing, China, Jun. 28-29, 2017

WORKSHOPS  
ATTENDED

- ✍ *Difference-in-Differences with Panel Data and Repeated Cross Sections*  
Prof. Jeffrey M. Wooldridge, Michigan State University (12 hrs. [online](#)), Jun. 8-9, 2023.
- ✍ *Fixed Grid Estimators for a Distribution of Random Coefficients*  
Prof. Jeremy T. Fox, Rice University & NBER (10 hrs. [classroom](#)), Mar. 7-8, 2019.
- ✍ *Macroeconometric Forecasting*  
IMF & Edx (90 hrs. [online](#)), Nov. 2016.

LANGUAGES

English (Advanced, [Duolingo 140/160](#)), Portuguese (Proficient), Spanish (Native)

REFERENCES

- ✍ Dr. Jordan Suter, Chair of Graduate Program  
Department of Agricultural and Resource Economics  
Colorado State University  
[Jordan.Suter@colostate.edu](mailto:Jordan.Suter@colostate.edu)
- ✍ Dr. Manuel A. Hernandez, Senior Research Fellow, IFPRI  
[M.A.Hernandez@cgiar.org](mailto:M.A.Hernandez@cgiar.org) ([website](#))