

# MAURICIO SARRIAS

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## CONTACT INFORMATION

Facultad Economía y Negocios,  
Universidad de Talca,  
Avenida Lircay sin número, Talca, Chile.

E-mail: msarrias86@gmail.com, mauricio.sarrias@utalca.cl

Web: msarrias.com

ORCID ID: 0000-0001-5932-4817

Scopus ID: 56490633500

ResearchID: L-7627-2018

## EDUCATION

*PhD*, Regional Science  
Cornell University, Ithaca, NY, USA  
May of 2016

*Master of Science*, Regional Science  
Universidad Católica del Norte, Antofagasta, Chile.  
December of 2009

*Bachelor of Art*, Business Management  
Universidad Católica del Norte, Antofagasta, Chile.  
December of 2008

## EMPLOYMENT

Universidad de Talca, Talca, Chile  
Associate Professor, 2020 - present.

Universidad Católica del Norte, Antofagasta, Chile  
Associate Professor, 2015 - 2020

## POSITIONS

Universidad Católica del Norte, Antofagasta, Chile  
Postgraduate Director of Master and PhD in Economics with major in Regional Science, 2016 - 2020.

- In charge of three CNA accreditation: Master (6 years) and PhD (2 and 4 years).

*Economic and Administration board, FONDECYT (ANID) Projects* Since 2020.

## FIELDS

Discrete Choice Models  
Spatial Econometrics  
Applied Econometrics  
Health Economics

## RESEARCH EXPERIENCE

*Research Assistant*  
RIMISP, Centro Latinoamericano para el Desarrollo

July 2013-October 2014

- Econometric analysis for “Regional Growth and Concentration” project.

*Research Assistant* October 2010-December 2011  
Development Research Group, World Bank, Washington D.C, USA.

- Econometric analysis and data management for the Lead Economist William F. Maloney. Specialization in nonlinear regressions and labor economics.

*Research Assistant* March 2009-December 2010  
Institute of Applied Regional Economics, Universidad Católica del Norte, Antofagasta, Chile.

- Econometric analysis and data management for regional analysis in Chile. Specialization in spatial economics and spatial econometrics.

## **ACADEMIC EXPERIENCE**

*Instructor* 2020-  
Undergraduate level courses for Department of Economics, Universidad de Talca, Talca, Chile.

Lecturing and grading

- Advance Econometrics II.
- Advance Microeconomics I.
- Qualitative Methods for Business.

*Instructor* 2020-  
Graduate level (Master and PhD.) courses of Economics, Universidad de Talca, Talca, Chile.

Lecturing and grading

- Econometrics II.
- Spatial Econometrics.
- Health Economics.

*Instructor* 2015-2020  
Graduate level (Master and PhD.) courses for Department of Economics, Universidad Católica del Norte, Antofagasta, Chile.

Lecturing and grading

- Econometrics.
- Spatial Econometrics.
- Microeconomics.
- Discrete Choice Models.
- Health Economics.
- Scientific writing.

*Instructor* 2015-2020  
Undergraduate level courses for Department of Economics, Universidad Católica del Norte, Antofagasta, Chile.

Lecturing and grading

- Econometrics

*Teaching Assistant* Spring Semester-2015  
Graduate level course for City and Regional Planning Department, Cornell University, Ithaca, NY, USA.

- CRP 5450: Inferential Statistics for Planning and Public Policy

*Instructor* 2009-2010  
Undergraduate level courses for Department of Economics, Universidad Católica del Norte, Antofagasta, Chile.  
Lecturing and grading

- Optimization and Operation Research.
- Microeconomics II.
- Environmental Economics.

*Teaching Assistant* 2006-2008  
Undergraduate level courses for Department of Economics, Universidad Católica del Norte, Antofagasta, Chile.

- Microeconomics I
- An introductory course of Economics
- Macroeconomics I.
- Microeconomics II.

## HONORS AND AWARDS

*Grant: Instrumental variable approaches for models with unobserved heterogeneity* 2020-2023  
Funding: Comisión Nacional de Investigación Científica y Tecnológica  
Fondecyt Regular, N 1200522  
Principal Investigator: Mauricio Sarrias.

*Grant: Individual-specific Inference for Choice Models* 2016-2019  
Funding: Comisión Nacional de Investigación Científica y Tecnológica  
Fondecyt de Iniciación, N 11160104  
Principal Investigator: Mauricio Sarrias.

*PhD Scholarship* 2010-2015  
CONICYT, Government of Chile

*Best Post-grade Thesis* 2010  
Red Sinergia, Chile

*Bicentenary-Mineduc Scholarship for B.A Studies* 2004-2008  
Government of Chile

*President of the Republic Scholarship* 2000-2003  
Government of Chile

## BOOKS AND CHAPTERS

Atienza, M., Lufin, M. and Sarrias, M. (2010). División Espacial del Trabajo en Chile. Ediciones universitarias, Universidad Católica del Norte. Download

## ARTICLES

Corresponding author in bold letters.

**Iturra, V.** & Sarrias, M (2022) “Amenities and individual heterogeneity in the return to schooling” **Letters in Spatial and Resource Science**. Forthcoming.

**Sarrias, M.** & Blanco, A. (2022) “Bodyweight and Human Capital Development: Assessing the Impact of Obesity on Socioemotional Skills During Childhood in Chile” **Economics & Human Biology**. DOI:10.1016/j.ehb.2022.101190. Download

Iturra, V. & Sarrias, M (2022) “*The Impact of Bodyweight on Life Satisfaction among School-aged Children: Are the Mechanisms Gender-based?*” **Child Indicators Research**. DOI:10.1007/s12187-022-09973-x. Download

Sarrias, M & Molina-Varas, A. (2022) “*Your Air Pollution Makes Me Sick! Estimating the Spatial Spillover Effects of PM2.5 Emissions on Emergency Room Visits in Chile*” **REGION**. DOI:10.18335/region.v9i2.399. Download

Gonzalez-Santander, C., Sarrias, M, Daziano, RA., **Roco, L.** (2022) “*Valuing Urban Drinking Water Supply Attributes: A Case Study from Chile*” **Water Resources and Economics**. DOI:10.1016/j.wre.2022.100204. Download

Ortiz, C., & Sarrias, M (2022) “*Estimating the Non-pecuniary Benefit of Engaging in Pro-environmental Behaviors: Incorporating both Heterogeneous Preferences and Income Endogeneity*”, **Journal of Environmental Management**, 302, 114040. DOI:10.1016/j.jenvman.2021.114040. Download

Sarrias, M., & Iturra, V. (2022) “*The Double Burden of Being A Woman and Obese: Evidence from the Chilean Labor Market*”, **Feminist Economics**. 28(1), 199-231. DOI:10.1080/13545701.2021.1988127. Download

Sarrias, M (2021). “*A Two Recursive Equation Model to Correct for Endogeneity in Latent Class Binary Probit Models*” **Journal of Choice Modelling**. 40, 100301. DOI:10.1016/j.jocm.2021.100301. Download

Quintero-Fragozo, C., Cortes, Y., Sarrias, M (2021). “*Effects of Spatial Competition on Public Educational Efficiency: An Analysis for the Chilean Metropolitan Region*” **Journal of Education Policy**. DOI:10.1080/02680939.2021.1966102. Download

Romero-Espinosa, D, Sarrias, M, Daziano, R (2021). “*Are Preferences for City Attributes Heterogeneous? An Assessment using a Discrete Choice Experiment*”. **Papers in Regional Science**. 100(1), 251-272. DOI:10.1111/pirs.12566. Download

Sarrias, M. (2020). “*Individual-specific Posterior Distributions from Mixed Logit Models: Properties, Limitations and Diagnostic checks*”. **Journal of Choice Modelling**, 36, 100224. DOI:10.1016/j.jocm.2020.100224. Download

Sarrias, M. (2020). “*Random Parameters and Spatial Heterogeneity using Rchoice in R*”, **REGION**, 7(1), 1-19. DOI: 10.18335/region.v7i1.279. Download

Sarrias, M & Jara, B. (2020). “*How Much Should We Pay for Mental Health Deterioration? The Subjective Monetary Value of Mental Health After the 27F Chilean Earthquake*”. **Journal of Happiness Studies**. 21(3), 843-875. DOI: 10.1007/s10902-019-00112-y. Download

Ahumada, G., Iturra, V. & Sarrias, M. (2020). “*We Do Not Have the Same Tastes! Evaluating Individual Heterogeneity in the Preferences for Amenities*.” **Journal of Happiness Studies**. 21(1), 53-74. DOI: 10.1007/s10902-019-00081-2. Download

Palomino, J., & Sarrias M. (2019). “*The Monetary Subjective Health Evaluation for Commuting Long Distances in Chile: A Latent Class Analysis*.” **Papers in**

**Regional Science.** 98(3), 1937-1417. DOI: 10.1111/pirs.12416. Download

**Aroca, P.,** Azzoni, C., and Sarrias, M. (2018). “*Regional Concentration and National Economic Growth in Brazil and Chile*”. **Letters in Spatial and Resource Sciences**, 11(3), 343-359. DOI: 10.1007/s12076-018-0217-2. Download

**Sarrias, M.** (2018). “*Do Monetary Subjective Well-being Evaluations Vary Across Space? Comparing Continuous and Discrete Spatial Heterogeneity*”, **Spatial Economic Analysis**, 14(1), 53-87. DOI: 10.1080/17421772.2018.1485968. Download

**Sarrias, M** and Daziano, R. A, (2018), “*Individual-Specific Point and Interval Conditional Estimates of Latent Class Logit Parameters*”, **Journal of Choice Modelling**, 27, 50-61, DOI: 10.1016/j.jocm.2017.10.004. Download

**Sarrias, M.,** and Daziano, Ricardo, (2017). “*Multinomial Logit Models with Continuous and Discrete Individual Heterogeneity in R: The gmnL Package*”. **Journal of Statistical Software**, 79(2), 1 - 46. DOI:10.18637/jss.v079.i02. Download

**Daziano, R. A.,** Sarrias, M., and Leard, B. (2017). “*Are Consumers Willing to Pay to Let Cars Drive for Them? Analyzing Response to Autonomous Vehicles*”. **Transportation Research Part C: Emerging Technologies**, 78, 150-164, DOI: 10.1016/j.trc.2017.03.003. Download

**Maloney, W.F.,** and Sarrias, M (2017). “*Convergence to the Managerial Frontier*”, **Journal of Economic Behavior & Organization**, 134, 284-306, DOI: 10.1016/j.jebo.2017.01.002. Download

**Sarrias, M.** (2016). “*Discrete Choice Models with Random Parameters in R: The Rchoice Package*”. **Journal of Statistical Software**, 74(10), 1 - 31, DOI:10.18637/jss.v074.i10. Download

Falco, P., Maloney, W. F., **Rijkers, B.,** and Sarrias, M. (2015). “*Heterogeneity in Subjective Wellbeing: An Application to Occupational Allocation in Africa*”. **Journal of Economic Behavior & Organization**, 111, Pages 137-153, DOI: 10.1016/j.jebo.2014.12.022. Download

## STATISTICAL PACKAGES

Mauricio Sarrias and Gianfranco Piras (2022). spldv: Spatial Models for Limited Dependent Variables. R package version 0.1.1 <https://CRAN.R-project.org/package=spldv>.

Mauricio Sarrias and Ricardo Daziano (2015). gmnL: Multinomial Logit Models with Random Parameters. R package version 1.0. <http://cran.r-project.org/web/packages/gmnL/index.html>

Mauricio Sarrias (2014). Rchoice: Discrete Choice (Binary, Poisson and Ordered) Models with Random Parameters. R package version 0.2. <http://CRAN.R-project.org/package=Rchoice>

## WORKSHOPS

Sarrias, M. (2018). Evaluating Willingness to Pay for Non-Market Goods Using Discrete Choice Models. May, 2018, Universidad de Concepción, Campus Chillan, Chile.

Sarrias, M. (2017). Modelos de Eleccion Discreta. 9th SOCHER Conference, September, 2017, Chillan, Chile.

Sarrias, M. & Daziano, R. (2017). Discrete Choice Model with Simulation: Software Comparison, Big Data, and Reproducibility. 5th International Choice Model Conference, April, 2017, Cape Town, South Africa.

**CONFERENCES** Sarrias & Daziano (2018). A Latent Class Ordered Probit Model of the Link Between Self-reported Health and Commuting Time. Interdisciplinary Choice Workshop, August, 2018, Santiago, Chile.

Sarrias & Daziano (2018). Comparing Software Implementation of Logit Models with Individual Heterogeneity. UseR! 2018 Conference, July, 2018, Brisbane, Australia.

Sarrias & Daziano (2017). Standard Errors and Interval Estimates of Individual-Specific Estimates. 5th International Choice Model Conference, April, 2017, Cape Town, South Africa.

Sarrias (2016). Do Monetary Subjective Well-Being Evaluation Vary Across Space? Comparing Continuous and Discrete Spatial Heterogeneity. Annual Meeting of the Chilean Regional Science Association, Santiago, Chile, November, 2016.

Sarrias & Daziano (2016). Individual-Specific Economic Choice Parameters: Application to the Valuation of Emission Reduction in Vehicle Choice. ITEA Annual Conference and School on Transportation Economics, Santiago, Chile, 2016.

Sarrias (2015). Continuous and Discrete Spatial Heterogeneity: Modeling Strategies and Simulation, Pacific Conference of the RSAI and Sociedad Chilena de Economia Regional, 2015.

Sarrias (2015). Continuous and Discrete Spatial Heterogeneity: Modeling Strategies and Simulation, 62nd Annual North American Meetings of the Regional Science Association International, Portland, OR, 2015.

Sarrias (2014). City-Size and Health-Assessed Status: An Ordered Probit Model with Spatially Random Coefficients, 61st Annual North American Meetings of the Regional Science Association International, Washington D.C., 2014.

Maloney W., and Sarrias, M. (2014). Convergence to Managerial Frontier, 2nd LACEA Labor Market Network Meeting, Cartagena, Colombia, 2014.

Sarrias M., and Aroca, P. (2010). Regional Business Cycle Synchronization in Chile, 56th Annual North American Meetings of the Regional Science Association International, Denver, Colorado, United States, 2010.

Sarrias M., and Aroca, P. (2010). Sincronizacion de los ciclos economicos regionales de las regiones en Chile: el rol del espacio, la especializacion, la inversion extranjera directa y la inversion publica, Annual Meeting of Chilean Economics Society, Talca, Chile, September, 2010.

Atienza M., Lufin M., and Sarrias, M. (2010). Division Espacial del Trabajo en Chile, Annual Meeting of the Chilean Regional Science Association, Talca, Chile,

November, 2007.

Sarrias M., and Aroca, P. (2010). Grado de sincronizacion de los ciclos economicos regionales en Chile: Una mirada estructural y sectorial, Annual Meeting of the Chilean Regional Science Association, Talca, Chile, November, 2007.

Aroca P., and Sarrias, M. (2010). Sincronizacion de los Ciclos Regionales en Chile. 23th Meeting of Central Bank of Chile in Regions, Antofagasta, Chile

**EDITORIAL  
DUTIES**

*Associate Editor, Journal of Statistical Software* Since 2018.

*Associate Editor, Journal Economía* Since 2019.

**REFEREE**

*Journal of Choice Modelling*

*International Journal of Sustainable Transportation*

*International Journal of Transport Geography*

*Networks and Spatial Economics*

*Information Processing in Agriculture*

**PROFESSIONAL  
ASSOCIATIONS**

*SOCHER*

Since 2009.