

MAURICIO SARRIAS

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

Sociedad Chilena de Economistas Regionales (SOCHER)
Vicepresident, 2023-Present.

FONDECYT (ANID) Projects
Economic and Administration board, 2020-2022.

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).

FIELDS

Discrete Choice Models
Spatial Econometrics
Applied Econometrics

Health Economics

RESEARCH EXPERIENCE

Research Assistant July 2013-October 2014
RIMISP, Centro Latinoamericano para el Desarrollo

- 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 I.
- 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: Estimation and Inference for Continuous Heterogenous Spatial Autoregressive Models by Simiulated Maximum Likelihood 2023-2025

Funding: Comisión Nacional de Investigación Científica y Tecnológica
Fondecyt Regular, N 1230038

Principal Investigator: Mauricio Sarrias.

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

EDITORIAL DUTIES

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

Associate Editor, Journal Economía 2019-2022.

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.

Rodriguez, P. & **Sarrias, M** (2024), “*Instrumental Variable Estimation with Observed and Unobserved Heterogeneity of the Treatment and Instrument Effect: A Latent Class Approach*”, **Empirical Economics**, DOI:10.1007/s00181-024-02658-0. Download.

Piras, G. & **Sarrias, M** (2023), “*One or Two-step? Evaluating GMM Efficiency for Spatial Binary Probit Models*”, **Journal of Choice Modelling**, 48, 100432, DOI:10.1016/j.jocm.2023.100432. Download.

Sarrias, M (2023), “*Estimating Heteroskedastic and Instrumental Variable Models for Binary Outcome Variables in R*”, **R Journal**, 15(2), pp. 263-293, DOI:10.32614/RJ-2023-050. Download.

Piras, G. & **Sarrias, M** (2023), “*GMM Estimators for Binary Spatial Models in R*”, **Journal of Statistical Software**, 107(8), pp. 1-33, DOI:10.18637/jss.v107.i08. Download.

Piras, G. & Sarrias, M (2023), “*Heterogeneous spatial models in R: Spatial Regimes Models*”, **Journal of Spatial Econometrics**, 4(1), pp. 4, DOI:10.1007/s43071-023-00034-1. Download.

Iturra, V. & Sarrias, M (2023), “*Amenities and individual heterogeneity in the return to schooling*”, **Letters in Spatial and Resource Science**, 16(1), 18, DOI:10.1007/s12076-022-00322-8. Download.

Quintero-Fragozo, C., Cortes, Y., Sarrias, M (2023), “*Effects of Spatial Competition on Public Educational Efficiency: An Analysis for the Chilean Metropolitan Region*”, **Journal of Education Policy**, 38(1), pp. 115-140, DOI:10.1080/02680939.2021.1966102. Download.

Iturra, V. & **Sarrias, M** (2023), “*The Impact of Bodyweight on Life Satisfaction among School-aged Children: Are the Mechanisms Gender-based?*”, **Child Indicators Research**, 16(1), pp. 135-165, DOI:10.1007/s12187-022-09973-x. Download.

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**, 101190, DOI:10.1016/j.ehb.2022.101190. 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**, 9(2), pp. 1-23, 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**, 39, 100204, 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), pp. 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.

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), pp. 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), pp. 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), pp. 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), pp. 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), pp. 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), pp. 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), pp. 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, pp. 50-61, DOI: 10.1016/j.jocm.2017.10.004. Download.

Sarrias, M., and Daziano, Ricardo, (2017), “*Multinomial Logit Models with Con-*

tinuous and Discrete Individual Heterogeneity in R: The gmn1 Package”, **Journal of Statistical Software**, 79. 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, pp. 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, pp. 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, 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, pp. 137-153, DOI: 10.1016/j.jebo.2014.12.022. Download.

STATISTICAL PACKAGES

Mauricio Sarrias and Gianfranco Piras (2023). `hspm`: Heterogeneous Spatial Models. R package version 1.1. <https://CRAN.R-project.org/package=hspm>.

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). `gmn1`: Multinomial Logit Models with Random Parameters. R package version 1.0. <https://CRAN.R-project.org/package=gmn1>

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, 62st 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 económicos 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

REFEREE

Journal of Choice Modelling

International Journal of Sustainable Transportation

International Journal of Transport Geography

Networks and Spatial Economics

Information Processing in Agriculture

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