

# MARIA IGNACIA VICUÑA <u>mivicuna@uc.cl</u>

## I. EDUCATION

-	Ph.D. in Statistics, Pontificia Universidad Católica de Chile	2011 - 2015
-	M.Sc. in Statistics, Pontificia Universidad Católica de Chile	2009 - 2010

- Bachelor Degree in Mathematics, Pontificia Universidad Católica de Chile 2004 - 2008

## II. ACADEMIC POSITIONS

-	Associate Teaching Professor, School of Management,	
	Pontificia Universidad Católica de Chile.	2024 – To date
-	Assistant Teaching Professor, School of Management UC	2015 - 2024
-	Professor for Undergraduate Statistics	
	Pontificia Universidad Católica de Chile	2012 - 2013
-	Professor, Engineering Department, Universidad Adolfo Ibáñez.	2010 - 2012

### **III. AREA OF SPECIALIZATION AND MAIN COURSES**

- Area: Statistics
- Main Courses: Probability and Statistics, Statistic Inference, Quantitative Methods.

## IV. RESEARCH

### Recent Publications

- Q Quiroga, B., Vásquez, C., & Vicuña, M. I. (2022). Nonlinear time-series forecasts for decision support: Short-term demand for ICU beds in Santiago, Chile, during the 2021 COVID-19 pandemic. International Transactions in Operational Research, 30(6), 3400-3428.
- Vicuña, M. I., Vásquez, C., & Quiroga, B. F. (2021). Forecasting the 2020 COVID-19 epidemic: A multivariate Quasi-Poisson regression to model the evolution of new cases in Chile. Frontiers in public health, 9, 416.
- Vicuña, MI., Palma, W. & Olea, R. (2019). Minimum distance estimation of locally stationary moving average processes. Computational Statistics & Data Analysis, 140:1-20. (WoS)

### Working Papers



**ESCUELA DE ADMINISTRACIÓN** Facultad de Economía y Administración

- "A model to measure agreement between an integer valued instrument and multiple evaluations with an ordered categorical instrument"

## V. SELECTED SCIENTIFIC PRESENTATIONS

-	XI Latin American Congress of Statistics Societies	
	Title: "Estimador de Mínima Distancia para Procesos Localmente	
	Estacionarios" (Part of Doctoral thesis)	Oct 2014
-	Internship at Universidad de Supelec, Paris, Francia.	
	Research with con Pascal Bondon, regarding ARFIMA models Locally	
	Stationary with structural changes in the long term memory parameters.	Feb 2013

### VI. CONSULTING EXPERIENCE

-	MINEDUC (Ministry of Education)	2012 - 2014
-	Central Bank of Chile	2012

- National Health Survey

### VII.GRANTS AND AWARDS

-	National Conicyt Scholarship for PhD Studies	2011 - 2015
-	Maximum Grade Distinction, PhD in Statistics	2015
-	Maximum Grade Distinction, Master in Statistics	2010
-	National Conicyt Scholarship for Master Studies	2009 - 2010
-	Faculty of Mathematics Scholarship	

- Graduated 2nd of 36 students, Bachelor Degree in Mathematics
- Graduated in 1st place, Master in Statistics