

# ROBERTO ZUNIGA

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## EDUCATION

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- Columbia University 2020 -  
Ph.D., Sustainable Development  
Research interests: Climate Finance, Climate risks, Industrial Organization
- Ecole Polytechnique, France 2016  
B.S. and M.S. in Engineering  
Major in Applied Mathematics – Concentration in Probabilistic and Statistical Modeling
- Pontificia Universidad Católica de Chile 2016  
B.S.E. in Industrial Engineering and Diploma in Mathematical Engineering  
Conferred with Maximum Distinction and Departmental Honors

## RESEARCH – WORK IN PROGRESS

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- Zuniga, R. "Climate Risks, Insurance Market Structure and Policy"
- Zuniga, R. "Credit Constraints and Climate Adaptation: Evidence from Rural Credit in Brazil"
- Roberts, M., Schlenker, W., Tran, N. & Zuniga, R. (2024). "Commodity Prices and Volatility in Response to Anticipated Climate Change"
- Thies, S. & Zuniga, R. "Correlated Climate Shocks and Agricultural Trade"

## PRE-PHD

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- Arroyo-Marioli, F., Bullano, F., Fornero, J., & Zúñiga, R. (2020). "*A Semi-Structural Model for the Chilean Economy*". Central Bank of Chile Working Paper Series.
- Albagli E., Fornero J., Fuentes M. & Zúñiga R. (2019). "*On the Effects of Confidence and Uncertainty on Aggregate Demand: Evidence from Chile.*" Journal Economía Chilena (The Chilean Economy), 22(3), 8-33.
- Aldunate, R., Bullano, Canales, M., Contreras, G., Fernández, A., F., Fornero, J., García, B., García, M., Tapia, M., & Zúñiga, R. (2019). "*Estimation of Structural Parameters of the Chilean Economy*" (In spanish). Monetary Policy Report. Central Bank of Chile, Chile.
- Fornero, J. & Zúñiga (2019). "*The Effects of Foreign Shocks on Consumption and Investment in Chile*" (In spanish). Monetary Policy Report. Central Bank of Chile, Chile.
- Bullano, F., Fornero, J. & Zúñiga (2018). "*Estimating Potential GDP and the Output Gap in Chile*" (In spanish). Monetary Policy Report. Central Bank of Chile, Chile.
- Fornero, J. & Zúñiga (2017). "*Potential GDP and the Output Gap in Chile*" (In spanish). Monetary Policy Report. Central Bank of Chile, Chile.

## PREVIOUS TEACHING ASSISTANT EXPERIENCE

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At Columbia University

- INAF U6669 (Spring 2025) – Advanced Computing for Policy
- INAF U6576 (Fall 2024) – Data and Conflict
- PEPM U6610 (Summer 2023) – Quantitative Methods for Economic Policy
- ECON GR5311 (Fall 2022) – Economic Policy Analysis
- ECON W3211 (Spring 2022) – Intermediate Microeconomics
- INAF U6608 (Spring 2022) – Quantitative Analysis III: Economics of Education Policy
- INAF U6006 (Fall 2021) – Computing in Context

At Pontificia Universidad Católica (PUC) & Universidad de Chile (UCh)

- UCh (2016). Macroeconomics
- PUC (2015-2016). Finance and Project Evaluation
- PUC (2010-2011). Calculus, Linear Algebra, Differential Equations, and Introduction to Economics

## AWARDS AND SCHOLARSHIPS

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- Dean Fellowship, Columbia University, 2020-2025
- Best Student Prize, Professional Engineers Association, Chile, 2017
- Best Student Prize, Department of Industrial Engineering, PUC, 2016
- Best Student Prize, Department of Mathematical Engineering, PUC, 2016
- Eiffel Excellence Scholarship, Ministère de l'Europe et des Affaires étrangères, France, 2012-2014
- Matricula de Honor Scholarship, PUC, 2010
- Padre Hurtado Prize, PUC, 2009-2015
- Excellence Scholarship, Ministerio de Educación, Chile, 2009-2011

## WORK EXPERIENCE

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Central Bank of Chile May 2016 - June 2020  
*Economist, Macroeconomic Analysis* Santiago, Chile

- Macroeconomic modeling and forecasting; monetary policy analysis.

Pontificia Universidad Católica Mars 2015 - April 2016  
*Research Assistant with Professors P. Hernández-Lagos and T. Reyes* Santiago, Chile

- On the economic impact of national leaders.

Collège de France April 2014 - July 2014  
*Research Internship at the Mathematical Neuroscience Laboratory with Jonathan Touboul*  
*Paris, France*

- Mathematical modelling in neurosciences.

PSA Group (Peugeot) July 2013 - September 2013  
*Internship at the R&D Department* Bessoncourt, France

- Mathematical modelling of car shipping.

## TECHNICAL SKILLS & LANGUAGES

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Computer Skills	Python, R, Java, Matlab, Stata, Dynare, Eviews, AMPL
Languages	English (advanced), Spanish (native), French (advanced), Portuguese (basic) and Italian (basic)