MARCO PIÑA

CONTACT

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RESEARCH AREAS

Macro-Finance; Financial Econometrics; Computational Economics

EDUCATION

PhD in Economics   Aug 2023 — Currently
University of Virginia   *VA, USA*

Master of Science in Economics   Mar 2018 — May 2020
University of Talca (6.42/7.0 - Best Graduate)   *Talca, Chile*

Bachelor of Business Management and Economics   Mar 2014 — May 2018
University of Talca (5.56/7.0 - 7 out of 102)   *Talca, Chile*

EXPERIENCE

Economist   Dic 2019 – Aug 2023
Central Bank of Chile   *Santiago, Chile*

- Develop, calibrate and estimate macrofinancial models with financial frictions

- Generate databases and estimate economic and financial models

- Participate in senior economists projects as a research assistant or co-author

Research Assistant   Mar 2019 – Dic 2019
Research Project Fondecyt Regular N°1180672   *Talca, Chile*

- Research focused on the use of option-implied volatilities in market risk modeling

- Design and estimate a multivariate volatility model that make use of financial options

- Document results in a working paper

Analyst (Intern)   Jan 2019 – Mar 2019
Research and Risks Unit, Financial Market Comission   *Santiago, Chile*

- Literature review on stress-testing models for the Chilean bank system

- Work with administrative data relative to market and credit risk

- Document and report results to the department

PUBLICATIONS

Exchange rate volatility and the effectiveness of FX interventions: the case of Chile
with Alejandro Jara, *[Latin American Journal of Central Banking (2023)](#)*

Estimates of US Shadow-Rate
with Rodrigo Alfaro, *Latin American Journal of Central Banking (2023)*

WORKING PAPERS

Market Risk Modeling with Option-Implied Correlations and Score-Driven Dynamics
with R. Herrera, SSRN WP N°4359999 (2023)

WORK IN PROGRESS

Shadow Interest Rate in Chile with R. Alfaro

A Macroeconomic Framework for Optimal Reserve Accumulation with M. Calani and C. Rondón

Counter-Cyclical Capital Requirements and Monetary Policy with M. Calani

COURSES AND TRAINING

"Tools for Macroeconomists" - University of Oxford	Aug 2020
"Monetary Policy Analysis and Forecasting" - IMFx	Jan 2021
"Occasionally Binding Constraints in Macroeconomics" - Carleton-Bank of Canada	Jan 2021
"Numerical Methods for Mathematics with Octave" - UPValenciaX	Feb 2021
"C.T. methods in Macroeconomics with Applications to ML" - University of Oxford	Jun 2021
"Introduction to Mathematical Thinking" - Stanford Online	Jul 2022
"Machine Learning in Finance" - CEMFI	Aug 2022

SKILLS

Developer Tools: Git/Github, VS Code, Jupyter

Programming: Julia, R, Matlab, Octave, Python, LaTeX, GNUplot

Softwares: Stata, SPSS

Datastream: Bloomberg, Eikon-Thomson Reuters

Languages: Spanish (Native), English (Proficient)