MARCO PIÑA

CONTACT

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RESEARCH AREAS

International Finance; Open Macroeconomics; Financial Econometrics

EDUCATION

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

MA in Economics — Aug 2023 — Jun 2024
University of Virginia — *VA, USA*

MS in Economics — Mar 2018 — May 2020
University of Talca (6.42/7.0 - Best Graduate) — *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

Market Risk Modeling with Option-Implied Correlations and Score-Driven Dynamics
with R. Herrera, *The North American Journal of Economics and Finance (2024)*

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

Simple Implementable Financial Policy Rules
with M. Calani and J. Moreno, Draft

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)