

# MARCO PIÑA

## CONTACT

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Webpage: <https://marco-pina.github.io/>

## RESEARCH AREAS

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Macro-Finance; Financial Econometrics; Computational Economics

## EDUCATION

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### Master of Science in Economics

University of Talca (6.42/7.0 - Best Graduate)

Mar 2018 — May 2020

*Talca, Chile*

### Bachelor of Business Management and Economics

University of Talca (5.56/7.0 - 7 out of 102)

Mar 2014 — May 2018

*Talca, Chile*

## EXPERIENCE

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### Economist

Central Bank of Chile

Dic 2019 – Currently

*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

Research Project Fondecyt Regular N°1180672

Mar 2019 – Dic 2019

*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)

Research and Risks Unit, Financial Market Commission

Jan 2019 – Mar 2019

*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

## WORKING PAPERS

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“Exchange rate volatility and the effectiveness of FX interventions: the case of Chile” [\[Link\]](#)  
with A. Jara, *CBCh Working Paper N°962 (R&R in LAJCB)*

“Market Risk Modeling with Option-Implied Correlations and Score-Driven Dynamics” [\[Link\]](#)  
with R. Herrera, *CBCh Working Paper N°932 (Submitted)*

“Estimates of US Shadow-Rate”  
with R. Alfaro, *CBCh Working Paper N°923 (Accepted in LAJCB)*

[\[Link\]](#)

## WORK IN PROGRESS

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“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

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“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

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**Developer Tools:** Git/Github, VS Code, Jupyter

**Programming:** Julia, R, Matlab, Octave, Python,  $\text{\LaTeX}$ , GNUplot

**Softwares:** Stata, SPSS

**Datastream:** Bloomberg, Eikon-Thomson Reuters

**Languages:** Spanish (Native), English (TOEFL iBT: 101)