

# Juan Martín Rinaldi

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## EDUCATION

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### Universidad Torcuato Di Tella

Buenos Aires, AR

*Master in Science, Finance, Quantitative Track*

2017 – 2020

*Thesis title: WTI Oil Futures Curve Rollover: Stylized Facts*

*Thesis supervisor: Nicolas Merener, PhD*

*Top 12% of the class*

### Universidad Nacional de Córdoba

Córdoba, AR

*Specialist in Superior Accounting & Auditing, Credit Risk Modeling*

2013 – 2015

*Thesis title: Credit Risk in Spanish Companies: A Comparison Between Traditional and Structural Credit Risk Models*

*Thesis supervisor: Jonatan Saul, PhD*

*Ranked 6th out of 35*

### Universidad Nacional de Córdoba

Córdoba, AR

*B.Sc. in Accounting*

2007 – 2012

*Ranked 1st out of 1549*

## HONORS AND AWARDS

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### Universidad Torcuato Di Tella Research Scholarship

2017

*Awarded a full scholarship for the MSc in Finance and a research position at the Center for Financial Research.*

### Argentine Economic Congress Best Traders Award

2017

*Awarded a full scholarship for a course on Computational Finance in R.*

### Universidad Nacional de Córdoba Outstanding Teaching Assistant Award

2016

*Awarded one of the top 10 TAs for length of term and positive student feedback.*

### Universidad Nacional de Córdoba Full Scholarship for Graduate Studies

2013

*Merit-based scholarship for outstanding academic performance.*

## EXPERIENCE

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### Senior Macroeconomic Analyst, Research Department

February 2019 – present

*Inter-American Development Bank*

*Washington DC, USA*

- Conduct debt and external sustainability analysis.
- Monitor and report on macroeconomic performance of the Bank's borrowing countries.
- Develop risk assessment metrics.
- Research effects of countries' portfolios composition on their external crisis probability.
- Apply econometrics: panel data methods, binary response models, time series, classification, sensitivity analysis.

### Senior Quantitative/Research Trader

June 2017 – January 2019

*Balanz Capital*

*Buenos Aires, AR*

- Led strategies automation team designing algorithmic solutions for arbitrage detection and execution.
- Designed cross-market and cross-hedging strategies.
- Carried out futures, options, and exotic derivatives pricing.
- Researched strategies, macro-finance, and risk modeling.

### Congressional Advisor

December 2017 – January 2019

*National Congress of Argentina*

*Buenos Aires, AR*

- Assessed economic and financial aspects of bills by quantifying potential impact on national accounts.
- Applied yield curve models and fixed-income attribution techniques to evaluate impact of debt issuance (Bootstrapping, Nelson-Siegel-Svensson, term structure models).

### Quantitative/Research Trader

January 2014 – February 2017

*ARFIMA TRADING*

*Madrid, SP & Córdoba, AR*

- Traded Chicago Mercantile Exchange (CME) derivatives; conducted research-oriented trading; applied arbitrage, level, slope, and curvature strategies under a statistical approach on TED spreads, LOIS, TOIS, Fed Funds, VIX, and VSTOXX futures.
- Studied events to determine the impact of certain economic events in strategies returns; identified stylized facts and applied back-testing techniques.
- Developed applications in Matlab of structural credit risk models.

## ADDITIONAL RESEARCH EXPERIENCE & PRESENTATIONS

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**Universidad Torcuato Di Tella, Center for Financial Research** | Research Assistant 2017  
*Director: Juan José Cruces, PhD*  
*Research Associate: Nicolás Merener, PhD*

- Updated and improved quality of public reports: National Consumer Confidence Index, Inflation Expectations, and Agricultural Commodities Futures Risk Report.
- Assisted in the creation of the novel Real Estate Survey for Latin America. Programmed an algorithm to pull and clean the massive database feeding the report to then perform data analysis techniques.
- Presented Di Tella's Consumer Confidence Index at the Latin-American Consumer Confidence Index Conference in Montevideo, Uruguay.

**Universidad Nacional de Córdoba, Dept. of Statistics and Mathematics** | *Research Assistant* 2014 – 2016  
*Director: Catalina Alberto, PhD*

- Developed database for the project Composite Indicators Constructed with Multi-Criteria Decision Analysis Methods to Evaluate Companies Listed in Stock Markets; programmed in R MCDA methods applications.
- Programmed in R a structure to compare different MCDA methods results for the project Multi-attribute methodology: its application to evaluate system units. Part 2.

## TEACHING EXPERIENCE

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**Macroeconomics, TA** 2018  
*Universidad Torcuato Di Tella*

**Risk, Uncertainty and Finance, TA** 2017  
*Universidad Torcuato Di Tella*

**Public Finance, Lecturer** 2016  
*Universidad Nacional de Córdoba*

**Introduction to Financial Derivatives, Visiting Lecturer** 2016  
*Universidad Católica de Córdoba*

**Argentine Economic Policy, TA** 2014-2016  
*Universidad Nacional de Córdoba*

**Macroeconomics, TA** 2010-2013  
*Universidad Nacional de Córdoba*

## PUBLICATIONS & REFEREEING ACTIVITY

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### Peer-reviewed conference articles

Guevel, Funes, Chiaramonte & Rinaldi (2020). *Application of Fuzzy Reference Ideal Method to Evaluate Financial Performance in Companies Listed in the Argentinean Stock Market*. Annals of the XXXI International Congress of Operations Research

Rinaldi, Juan M. N. (2016). *The Relationship Between Debt and Welfare: An Empirical and Econometric Analysis*. Annals of the 48th International Public Finance Congress

### Refereeing activity

Weigandi, I. (2016). Interest Rate Spread and Regulation in Banking. *Journal of Business Studies*. Universidad Blas Pascal. (2 (2016)), pp.18-35.

## TECHNICAL SKILLS

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**Languages and software:** R, Matlab, Python, VBA, STATA, E-Views, LaTeX

**Information services:** Reuters, Bloomberg, Bloomberg Execution Management System (EMSX), EPFR

**Developer Tools:** Anaconda, PyCharm, R-Studio

**Libraries:** pandas, NumPy, Matplotlib, SciPy, QuantLib, algobroker, pyfolio, qfrm

## SPECIAL SKILLS & INTERESTS

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**Languages:** First language Spanish; advanced Portuguese; basic Italian.

**Music:** Play classical & electric guitar. Mixing and mastering music using Ableton Live.

**Sports:** Soccer, fitness, chess.