FRANCISCO A. RUELA JR. FranciscoARuela@gmail.com · Im franciscoruelajr

Education

University of Chicago	Chicago, IL
Finance, PhD Student	
Boston College	Chestnut Hill, MA
Economics, BA with Honors; Mathematics, BS	
Research Experience	

Federal Reserve Bank of New York

Senior Research Analyst

- New York, NY Jul 2018 | July 2021
- Conducted research with economists Michael Fleming, Moritz Schularick, and Fernando Duarte for publication in academic journals and the Liberty Street Economics blog (official blog of the Bank's Research and Statistics Group).
- Work products presented to FOMC Chair Powell, Treasury Secretary Mnuchin, SEC Chair Clayton, and FRBNY President Williams.
- Maintained and updated a record of every BrokerTec trade and limit order book instance derived from raw message scripts; dataset is utilized across the Federal Reserve System. Regularly work with raw data to generate liquidity statistics for use in research papers and policy products.

• Assisted in recruitment process planing and execution for summer and full time analysts.

Summer Analyst

- Jun 2017 | Aug 2017
- Assisted economist Or Shachar by constructing and cleaning data as well as conducting preliminary analysis using quantile regressions on market volatility and mutual fund liquidity.

Boston College Carroll School of Management	Chestnut Hill, MA	
Undergraduate Research Fellow	Oct 2017 May 2018	
• Assisted Professor Edith Hotchkiss with ongoing research focused on corporate finance by using		
Capital IQ to compare contract conditions of failed and successful mergers.		

Center for Retirement Research

 $Undergraduate \ Research \ Assistant$

Chestnut Hill, MA Jun 2016 | Sept 2016

2020

FRBNY Blog Post

- Conducted literature reviews and data analysis focused on retirement policy, including an analysis of retirement benefits recorded by the Survey of Consumer Finance.
- PUBLICATIONS (BLUE TEXT IS HYPERLINKED)

Tick Size Change and Market Quality in the U.S. Treasu	ry Market 2022
With Michael Fleming and Giang Nguyen	Management Science (forthcoming)
• Investigate the effects of the 2018 BrokerTec tick-size reduc	tion on treasury market liquidity.
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- Used SQL for initial data processing. Used Stata and Matlab for main analysis.
- Summary blog post on Liberty Street Economics. Cited by Bloomberg.

Working Papers & Blog Posts

The Impact of Child Earnings on Retirement Expectations	2018
Advised by Geoffrey Sanzenbacher	Working Paper, Senior Thesis

- Awarded Giffuni Prize for Outstanding Thesis in Economics (at Boston College).
- Analyze the impact of child earnings and earnings shocks on the retirement expectations of the parent using the Health and Retirement Study (HRS) with Stata.

How Liquid Is the New 20-Year Treasury Bond?

With Michael Fleming

- Assess the liquidity of the new 20-Year Bond using limit orderbook data from BrokerTec.
- Initial data processing in Python, C. Final aggregation and analysis in Stata.

Treasury Market Liquidity during the COVID-19 Crisis With Michael Fleming	2020 FRBNY Blog Post
• Evaluate the severity of the COVID-19 crisis compared to the Gl 15 years of limit orderbook data from BrokerTec. Cited by Zhigu Zhaogang Song and Darrell Duffie. Discussed by John Cochrane.	obal Financial crisis using over to He, Stefan Nagel, and
• Initial data processing in Python, C. Final aggregation and analy	vsis in Stata.
 How Large Are Default Spillovers in the U.S. Financial Syste With Fernando Duarte and Collin Jones Gauge the health of the US financial system using an Eisenberg a 	m? 2019 FRBNY Blog Post
• Used Matlab with Knitro (3rd party optimization package) for neulosed Stata and Python for data aggregation and formatting.	etwork optimization analysis.
Assessing Contagion Risk in a Financial Network	2019
With Fernando Duarte and Collin Jones	FRBNY Blog Post
• Explain the framework and applications of an Eisenberg and Noe	e network.
NOTABLE RA CONTRIBUTIONS (* IN PROGRESS OR UNCREDITED)	
 Adrian, Tobias and Fleming, Michael and Vogt, Erik, An Index of Treat 1991-2020 (2020). Federal Reserve Bank of New York Staff Report Adrian, Tobias and Capponi, Agostino and Fleming, Michael J. and Vog Intraday Market Making with Overnight Inventory Costs (2020). 	rt No. 827.* ogt, Erik and Zhang, Hongzhong,
Financial Markets.	
Bartscher, Alina and Kuhn, Moritz and Schularick, Moritz and Wachte	
Racial Inequality (2021). Federal Reserve Bank of New York Sta	
 Board of Governors of the Federal Reserve System (2019), <i>Financial St</i> Boyarchenko, Nina and Giannone, Domenico and Shachar, Or, Flighty 	· ·
Reserve Bank of New York Staff Report No. 870.	Liquidity (2018). Federal
Duarte, Fernando and Eisenbach, Thomas M., Fire-sale Spillovers and Journal of Finance.	Systemic Risk (Forthcoming).
Duarte, Fernando and Jones, Collin, Empirical Network Contagion for	U.S. Financial Institutions
(2017). Federal Reserve Bank of New York Staff Report No. 826.	
Nguyen, Giang and Engle, Robert F. and Fleming, Michael J. and Ghy	
Volatility in the U.S. Treasury Market (2020). Journal of Econor	metrics.
Leadership Experience	
Education For Students By Students	Chestnut Hill, MA
Teacher	Jan 2017 Apr 2018
• Developed and taught three economics/finance classes to high sch Fall 2017, and Spring 2018 Boston College Splash programs.	hool students in the Spring 2017,
TEDxBostonCollege	Chestnut Hill, MA
Executive Producer, Co-Founder	Jan 2017 Apr 2018
• Led all production and planning for the day of the event. Oversa content production, stage management, technology, and video.	w all of the roles related to
The Heights, Independent Student Newspaper	Chestnut Hill, MA
Multimedia Editor	Dec 2016 Dec 2017
Assistant Online Editor Assistant Graphics Editor	Apr 2016 Dec 2016 Dec 2014 Dec 2015
Programing Experience:	
Advanced: I ^A T _E X, MATLAB, Stata, SQL Familiar: C, Python, R, SAS, VBA	
Accolades	
Craduate Descarab Followship	National Science Foundation

Graduate Research Fellowship Awarded in the "Social Science - Economics" field Vault Propel Award For contributions to policy work Giffuni Prize For outstanding thesis in economics Pacemaker: Multimedia Story of the Year Shared with co-author Michael Sullivan National Science Foundation 2021-Federal Reserve Bank of New York 2019 Boston College Economics Department 2018 Associated Collegiate Press 2017