

# HYEYOON JUNG

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## EMPLOYMENT

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<b>Federal Reserve Bank of New York</b> <i>Financial Intermediation Function, Research &amp; Statistics</i>	Jul 2021 – Current Financial Economist
<b>J.P. Morgan (S.E.A) Limited</b> <i>FX &amp; Rates Trading, Currency &amp; Emerging Markets</i>	Jul 2012 – Jul 2015 Associate (FX Trader)

## EDUCATION

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<b>Leonard N. Stern School of Business, New York University, New York, NY</b> Ph.D. in Finance <i>Dissertation: Essays on International Finance and Financial Stability</i>	2021
M.Phil in Finance	2019
<b>University of Pennsylvania, Philadelphia, PA</b> <i>Jerome Fisher Program in Management and Technology</i>	2012
<b>The Wharton School</b> , Bachelor of Science in Economics, <i>Magna Cum Laude</i>	
<b>The School of Engineering and Applied Science</b> , Bachelor of Applied Science, <i>Magna Cum Laude</i>	

## RESEARCH INTERESTS

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International Finance, Financial Intermediation, Asset Pricing, Climate Finance

## RESEARCH

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### **The Real Consequences of Macroprudential FX Regulations** **(Job Market Paper)**

I exploit a natural experiment in South Korea to examine the real effects of macroprudential foreign exchange (FX) regulations designed to reduce risk-taking by financial intermediaries. By using cross-bank variation in the regulation's tightness, I show that it causes a reduction in the supply of FX derivatives (FXD) and results in a substantial decline in exports for the firms that were heavily relying on FXD

hedging. I offer a mechanism in which imbalances in hedging demand, banks' costly equity financing, and firms' costly switching of banking relationships play a central role in explaining the empirical findings.

### **Climate Stress Testing** (with Robert Engle and Richard Berner)

Climate change could impose systemic risks upon the financial sector, either via disruptions of economic activity resulting from the physical impacts of climate change or changes in policies as the economy transitions to a less carbon-intensive environment. We develop a stress testing procedure to test the resilience of financial institutions to climate-related risks. Specifically, we introduce a measure called CRISK, systemic climate risk, which is the expected capital shortfall of a financial institution in a climate stress scenario. We use the measure to study the climate-related risk exposure of large global banks in the recent collapse in fossil-fuel prices in 2020.

### **Understanding the Onshore versus Offshore Forward Rate Basis: The Role of FX Position Limits and Margin Constraints**

During the global financial crisis of 2007- 2009, the difference between the exchange rate for locally traded (onshore) forward contracts and contracts with the same maturity traded outside the jurisdiction of countries (offshore) increased significantly, though the magnitudes varied across currencies. This deviation from the law of one price can be explained by two constraints imposed on financial intermediaries: margin constraint and position limit constraint (a leverage-based cap on net open foreign exchange position). In an intermediary-based asset pricing model where intermediaries face both margin constraint and position limit constraint, I show how and when the position limit leads to a gap between onshore and offshore forward rates. The model predicts that (1) the basis increases with the shadow costs of the two constraints across time and increases with the country-specific position limit across countries; (2) the shadow cost of each constraint non-linearly increases as the intermediary sector's relative performance declines below a threshold; and (3) higher shadow cost of the position limit predicts lower future excess return on local-currency denominated assets, as buying local assets relaxes the position limit constraint imposed on the intermediaries. I test the model predictions and find consistent evidence in the countries with tight position limits.

## **RESEARCH IN PROGRESS**

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### **Estimating SRISK for Emerging Markets** (with Robert Engle)

The expected capital shortfall of a financial entity conditional on a prolonged market decline, SRISK measure of Brownlees and Engle (2016), is a useful measure of financial fragility. The key challenge in applying SRISK is that it requires data on the market value of firm equity. However, many of the major financial institutions in emerging markets are not publicly listed and therefore do not have market data on firm equity. To get a full picture of financial fragility, it is crucial to estimate SRISK for unlisted firms as well. To this end, we estimate SRISK for unlisted Latin American and Chinese financial institutions by examining the relation between accounting data and market data for listed banks and then applying the same relation to unlisted firms.

## **The Cross-section of Stock Price Sensitivity to Macroeconomic News Announcements over the Business Cycle**

This paper studies the link between firm characteristics and sensitivities of stock prices to macroeconomic news announcement (MNA) surprises over the business cycle. I find that the stocks with high market beta are more sensitive to MNA surprises, while the relationships between the sensitivity and other characteristics (size, book-to-market ratio, profitability, investment, and momentum) are muted. Furthermore, the relationship between market betas and the sensitivities varies over the business cycle. The sensitivities tend to align with market betas in bad times but not in good times.

### **PRESENTATIONS** (including scheduled)

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**Seminars:** Federal Reserve Cross-bank Climate Risk Community, Board of Governor's CREST Seminar, ESSEC-Amundi Chair Webinar, Bank of Korea, Banque de France, Federal Reserve Bank of Richmond 2022

**Conferences:** Eastern Finance Association Meeting

**Seminars:** European Central Bank, Central Bank of Chile, Korea University, Hong Kong University of Science and Technology, Vanderbilt Owen, Yale SOM, Federal Reserve Bank of New York, Federal Reserve Board, Stockholm School of Economics, Federal Reserve Bank of Chicago, Warwick Business School, U of SC Darla Moore, Oxford Said, Imperial College London, University of Hong Kong 2021

**Conferences:** HEC Paris - CEPR Conference, European Conferences of the Econometrics Community (EC<sup>2</sup>) Conference, MIT GCFP Conference, Australasian Finance and Banking Conference, IFABS Oxford Conference, International Risk Management Conference, Federal Reserve Stress Testing Conference, Volatility and Risk Institute Conference

**Seminars:** Society for Financial Econometrics Seminar, NYU Stern, Columbia GSB (Ph.D.) 2020

**Conferences:** AFA Ph.D. Poster Session, Federal Reserve Board Pre-Job Market Conference

### **PROFESSIONAL SERVICES**

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**Refereeing:** Applied Economics Letters, Journal of Banking & Finance, Review of Finance

**Session Chair:** IFABS 2021 Oxford Conference (Climate Change Session), EC<sup>2</sup> 2021 Conference (Macroeconomics of Emissions, Climate Finance Session)

**Discussion:** 2021 Australasian Finance and Banking Conference

## HONORS AND AWARDS

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Research Grant, Inter-American Development Bank and Volatility and Risk Institute, NYU Stern	2021
Ph.D. Research Grant, Center for Global Economy and Business, NYU Stern	2020
AFA Ph.D. Student Travel Grant	2020
Jules Bogen Fellowship, NYU Stern	2019 – 2020
NYU Stern Doctoral Fellowship	2015 – 2021
NYU Stern Teaching Commendation	2018
Wharton Undergraduate Research Award	2012
Merit-based Full Scholarship (Mirae Asset Park Hyeon Joo Foundation) for Undergraduate Studies	2007 – 2011

## TEACHING EXPERIENCE

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<b>Instructor, Foundations of Finance</b> (Undergraduate)	Summer 2018
Overall Evaluation: <b>5.0/5.0</b>	
<i>Awarded Commendation for Teaching Excellence</i>	
Teaching Fellow, Financial Econometrics (Ph.D.) Prof. Robert Engle	Spring 2018
Teaching Fellow, Volatility (MBA) Prof. Robert Engle	January 2020
Teaching Fellow, Investments (Executive MBA) Prof. Anthony Lynch	Fall 2019
Teaching Fellow, Foundations of Finance (MBA) Prof. Anthony Lynch	Summer 2017 – 2019
Teaching Fellow, Principles of Securities Trading (Undergraduate) Prof. Joel Hasbrouck	Spring & Fall 2017-2018, 2020
Project Advisor, Stern Signature Project (MBA) Prof. Robert Engle	Spring 2021
Guest Speaker, Climate Finance, NYU Stern, Prof. Johannes Stroebe	Fall 2021
Guest Speaker, Credit Risk and Bankruptcy, NYU Stern, Prof. Viral Acharya	Spring 2022

## REFERENCES

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### **Prof. Robert Engle (Co-chair)**

New York University, Stern School of Business

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### **Prof. Philipp Schnabl (Co-chair)**

New York University, Stern School of Business

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**Prof. Joel Hasbrouck**

New York University, Stern School of Business

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**Prof. Ralph Koijen**

University of Chicago, Booth School of Business

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**Prof. Alexi Savov**

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