

CHARLES R SMITH  
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EDUCATION

<b>University of Wisconsin-Madison</b>	Madison, WI
PhD Student in the Joint Economics Finance Program	Aug 2022   Present
<b>Amherst College</b>	Amherst, MA
B.A., <i>magna cum laude</i> in Economics and Mathematics	Sep 2015   May 2019

RELEVANT PHD COURSEWORK

Microeconomics • Macroeconomics • Econometrics • Industrial Organization • Finance Theory • Computational Economics

RELEVANT UNDERGRADUATE COURSEWORK

**Economics:** Advanced Econometrics • Advanced Macroeconomics • Advanced Microeconomics • Industrial Organizations • Game Theory • Mechanism Design • Senior Thesis  
**Mathematics:** Multivariable Calculus • Linear Algebra • Real Analysis • Complex Analysis • Stochastic Processes • Abstract Algebra • Lie Algebras

RESEARCH INTERESTS

Industrial Organization • Finance

WORK EXPERIENCE

<b>Federal Reserve Bank of New York</b>	New York, NY
<i>Senior Research Analyst, Financial Stability Oversight Council</i>	Jul 2021   Jul 2022
<ul style="list-style-type: none"><li>Conducted research with economist Richard Crump and assisted with the production of the Financial Stability Oversight Council's Annual Report.</li></ul>	
<i>Senior Research Analyst, Capital Markets</i>	Jul 2019   Jul 2021
<ul style="list-style-type: none"><li>Conducted research with economists Fernando Duarte and Peter Van Tassel.</li></ul>	
<i>Summer Analyst, Capital Markets</i>	Jun 2018   Aug 2018
<ul style="list-style-type: none"><li>Conducted research with economist Peter Van Tassel.</li></ul>	
<b>Amherst College Economics</b>	Amherst, MA
<i>Research Assistant for Professor Jun Ishii</i>	Sep 2016   May 2018
<b>Amherst College Mathematics</b>	Amherst, MA
<i>Research Assistant for Professor Gabriel Sosa</i>	Jun 2017   May 2019

TEACHING EXPERIENCE

<b>University of Wisconsin-Madison</b>	Madison, WI
<i>Teaching Assistant for MSFE 721 - Financial Microeconomics</i>	Sep 2023   Present

PAPERS & BLOG POSTS (BLUE TEXT IS HYPERLINKED)

**Congressional Polarization, the Incumbency Advantage, and Campaign Advertising** 2019  
*Advised by Jun Ishii and Christopher Kingston* Senior Thesis

- Awarded The James R. Nelson Prize for its economic analysis of an important question of public policy.
- Developed a tractable model of campaign spending during a two-candidate election in order to explain how changes in advertising markets can simultaneously lead candidates to adopt more polarized campaign positions and weaken the incumbency advantage.

**[Short-Dated Term Premia and the Level of Inflation](#)** 2022  
*With Richard Crump and Peter Van Tassel* FRBNY Blog Post

- We measure short-dated term premia using both a dynamic term-structure model (DTSM) and a survey-based model.
- Using the DTSM, the term premium is the difference between the fitted yield of a zero-coupon bond and the model's forecast for the average short-term risk-free rate over a horizon equal to the bond's maturity. Using the survey-based model, the short-date term premium is measured as the market-implied path of short-term interest rates from derivatives less the survey-expected path.
- We find both similar dynamics for both measures of short-dated term premia. In particular, we find that the short-dated term premia was higher during periods of high inflation and low during the past decade. Despite this historic relationship, the short-dated term premia has remained low despite the rise of inflation in 2022.

**[The Law of One Price in Equity Volatility Markets](#)** 2021  
*With Peter Van Tassel* FRBNY Blog Post

- Using our option database, we identify that VIX future prices exceed their option-implied upper bounds (indicating Law of One Price violations) on 12 percent of days from 2004 to 2020.
- We find that the frequency of Law of One Price violations increases in times of market distress, including the 2020 pandemic.

## Equity Volatility Term Premia

With Peter Van Tassel

2021

FRBNY Blog Post

- We estimate the realized variance and implied volatility term premia, a measure of the cost of insuring against volatility.
- The term premia increased during times of distress and in response to VIX shocks.

## NOTABLE RA CONTRIBUTIONS (\* IN PROGRESS OR UNCREDITED)

- Cattaneo, Matias., Crump, Richard., Farrell, Max., and Feng, Yingjie., [On Binscatter](#) (2021). *Federal Reserve Bank of New York Staff Reports 881.\**
- Crump, Richard., Eusepi, Stefano., Giannoni, Marc., and Sahin, Aysegul., [The Unemployment-Inflation Trade-off Revisited: The Phillips Curve in COVID Times](#) (2022). *NBER Working Paper No. w29785.*
- Duarte, Fernando and Eisenbach, Thomas M., [Fire-sale Spillovers and Systemic Risk](#) (2021). *Journal of Finance.*
- Duarte, Fernando and Jones, Collin., [Empirical Network Contagion for U.S. Financial Institutions](#) (2017). *Federal Reserve Bank of New York Staff Report No. 826.\**
- Duarte, Fernando and Rosa, Carlo., [The Equity Risk Premium: A Review of Models](#) *Federal Reserve Bank of New York Economic Policy Review.\**
- Van Tassel, Peter., [The Law of One Price in Equity Volatility Markets](#) (2020). *Federal Reserve Bank of New York Staff Report No. 953.\**
- Van Tassel, Peter., [Equity Volatility Term Premia](#) (2020). *Federal Reserve Bank of New York Staff Report No. 867.\**

## ACCOLADES

<b>On the Spot Vault Award</b>	Federal Reserve Bank of New York
Awarded for contributions to the <i>U.S. Economy in the a Snapshot</i>	2021
<b>Propel for Execution Vault Award</b>	Federal Reserve Bank of New York
Award for contributions to policy work during the COVID-19 crisis	2020
<b>The James R. Nelson Prize</b>	Amherst College Economics Department
Awarded to senior thesis for its economic analysis of an important question of public policy	2019
<b>The Sylvia and Irving Lerner Piano Prize</b>	Amherst College Music Department
Awarded to the student who demonstrated the greatest skill and musicianship as a pianist	2019

## LEADERSHIP EXPERIENCE

<b>Madison Senior Center</b>	Madison, WI
<i>Background Piano</i>	March 2023   Present
<b>Upper Manhattan Mutual Aid</b>	New York, NY
<i>Delivery Volunteer</i>	Sep 2020   Aug 2021
<b>Amherst College Music Department</b>	Amherst, MA
<i>Pianist; Jazz Combo, Jazz Band, Jazz Quartet</i>	Sep 2015   May 2019

## SKILLS AND INTERESTS:

**Programming:** Julia • MATLAB •  $\text{\LaTeX}$  • LyX • Stata • Python • SAS • SQL • Excel

**Interests:** Jazz Piano • Classical Piano • Hiking • Running • Reading