

LIUREN WU

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RESEARCH INTERESTS Option pricing; credit risk; term structure modeling; econometrics;
market microstructure; international finance; asset pricing; asset allocation.

ACADEMIC EXPERIENCE **BARUCH COLLEGE, CUNY** New York, NY
Zicklin School of Business
2015-present Wollman Distinguished Professor of Finance
2009-2015 Professor of Finance
2003-2008 Associate Professor of Economics and Finance

FORDHAM UNIVERSITY
Graduate School of Business New York, NY
1998-2003 Assistant Professor of Finance

INDUSTRY EXPERIENCE **tPlus Technology LP** New York, NY
2013-2015 Founder, Chief Scientist

ROYAL BANK of CANADA New York, NY
2009-2013 Consultant, equity options strategies

MORGAN STANLEY New York, NY
2010-2013 Consultant, risk management, valuation

BLOOMBERG New York, NY
2003-2001 Consultant, model development and implementation

AUTOMATED TRADING DESK Mt. Pleasant, SC
2007 Consultant, options market making

ACOS CAPITAL MANAGEMENT New York, NY
2006 equity long-short strategies

CASPIAN CAPITAL MANAGEMENT New York, NY
2002-2003 Consultant, risk management, fixed income strategies

EDUCATION **NEW YORK UNIVERSITY** New York, NY
Leonard N. Stern School of Business

1998	Master of Philosophy, International Finance and Economics	
	CHINESE ACADEMY OF SCIENCES	Beijing, CHINA
	Institute of Chemistry	
1994	Ph.D., Polymer chemistry and physics	
	BEIJING INSTITUTE OF TECHNOLOGY	Beijing, CHINA
1991	Master of Science, Chemical Engineering	
1988	Bachelor of Science, Chemical Engineering	

PUBLICATIONS

Staying on Top of the Curve: A Cascade Model of the Term Structure Dynamics (with Calvet and Fisher), **Journal of Financial and Quantitative Analysis**, forthcoming.

Leverage Effect, Volatility Feedback, and Self-Exciting Market Disruptions (with Carr), **Journal of Financial and Quantitative Analysis**, forthcoming.

Simple Robust Hedging With Nearby Contracts (with Zhu), **Journal of Financial Econometrics**, 2016, 15(1), 1-35.

Anchoring Corporate Credit Swap Spreads to Firm Fundamentals (with Bai), **Journal of Financial and Quantitative Analysis**, 2016, 51(5), 1521--1543.

Analyzing Volatility Risk and Risk Premium in Option Contracts: A New Theory (with Carr), **Journal of Financial Economics**, 2016, 120(1), 1-20.

Imports, Exports, Dollar Exposures, and Stock Returns (with Chakraborty and Tang), **Open Economic Review**, 2015, 26(5), 1059-1079.

Static Hedging of Standard Options (with Carr), **Journal of Financial Econometrics**, 2014, 12(1), 3-46.

Aggregating Information in Options Transactions (with Holowczak and Hu), **Journal of Derivatives**, 2014, 21(3), 9-23.

Equity Trading in the Fast Lane: The Staccato Alternative (with Schwartz), **Journal of Portfolio Management**, 2013, 39(3), 3-6.

Dynamic Interactions Between Interest-Rate and Credit Risk: Theory and Evidence on the Credit Default Swap Term Structure (with Chen and Cheng), **Review of Finance**, 2013, 17(1), 403-441.

Variance Swaps on Time-Changed Lévy Processes (with Carr and Lee), **Finance and Stochastics**, 2012, 16(2), 335-355.

A Simple Robust Link Between American Puts and Credit Protection (with Carr), **Review of Financial Studies**, 2011, 24(2), 473-505.

Uncovered Interest-Rate Parity Over the Past Two Centuries (with Lothian), **Journal of International Money and Finance**, 2011, 24(2), 473-505.

Variance Dynamics: Joint Evidence from Options and High-Frequency Returns, **Journal of Econometrics**, 2011, 160(1), 280-287.

The Term Structure of Variance Swap Rates and Optimal Variance Swap Investments (with Egloff and Leippold), **Journal of Financial and Quantitative Analysis**, 2010, 45(5), 1279-1310.

The Behavior of Risk and Market Prices of Risk over the Nasdaq Bubble Period (with Bakshi), **Management Science**, 2010, 56(12), 2251-2264.

Stock Options and Credit Default Swaps: A Joint Framework for Valuation and Estimation (with Carr), **Journal of Financial Econometrics**, 2010, 8(4), 409-449.

The Role of Exchange Rates in Intertemporal Risk-Return Relations (with Bali), **Journal of International Money and Finance**, 2010, 29(8), 1670-1686.

Market Anticipation of Fed Policy Changes and the Term Structure of Interest Rates (with Heidari), **Review of Finance**, 2010, 14(2), 313-341.

Predictability of Interest Rates and Interest-Rate Portfolios (with Bali and Heidari), **Journal of Business and Economic Statistics**, 2009, 27(4), 517-527.

Macroeconomic Releases and the Interest Rate Term Structure (with Lu), **Journal of Monetary Economics**, 2009, 56(6), 872-884.

A Joint Framework for Consistently Pricing Interest Rates and Interest Rate Derivatives (with Heidari), **Journal of Financial and Quantitative Analysis**, 2009, 44(3), 517-550.

Variance Risk Premiums (with Carr), **Review of Financial Studies**, 2009, 22(3), 1311-1341.

A No-Arbitrage Analysis of Economic Determinants of the Credit Spread Term Structure (with Zhang), **Management Science**, 2008, 54(6), 1160-1175.

Time-Varying Arrival Rates of Informed and Uninformed Trades (with Easley, O'Hara, and Engle), *Journal of Financial Econometrics*, 2008, 6(2), 171-207.

Stochastic Risk Premiums, Stochastic Skewness in Currency Options, and Stochastic Discount Factors in International Economies (with Bakshi and Carr), **Journal of Financial Economics**, 2008, 87(1), 132-156.

Price Discovery in the U.S. Stock Options Market (with Simaan), **Journal of Derivatives**, 2007, 15(2), 20-38. (Reprinted in **Journal of Trading**, 2008, 3(1), 68-86.)

Stochastic Skew in Currency Options (with Carr), **Journal of Financial Economics**, 2007, 86(1), 213-247.

International Capital Asset Pricing: Evidence from Options (with Mo), **Journal of Empirical Finance**, 2007, 14(4), 465-498.

Theory and Evidence on the Dynamic Interactions Between Sovereign Credit Default Swaps and Currency Options (with Carr), **Journal of Banking and Finance**, 2007, 31(8), 2383-2403.

Design and Estimation of Multi-Currency Quadratic Models (with Leippold), **Review of Finance**, 2007, 11(2), 167-207.

Price Discovery in the U.S. Stock and Stock Options Markets: A Portfolio Approach (with Holowczak and Simaan), **Review of Derivatives Research**, 2006, 9, 37-65.

Dampened Power Law: Reconciling the Tail Behavior of Financial Security Returns, **Journal of Business**, 2006, 79(3), 1445-1474.

A Tale of Two Indices (with Carr), **Journal of Derivatives**, 2006, 13(3), 13-29.

Taking Positive Interest Rates Seriously (with Pan), **Advances in Quantitative Analysis of Finance and Accounting**, 2006, 4(14), 327-356. Reprinted in *Handbook of Quantitative Finance and Risk Management*, 2009, Eds. C.-F. Lee and A.C. Lee, Springer.

Modeling Financial Security Returns Using Levy Processes, forthcoming in **Handbook of Financial Engineering**, 2008, Eds. John Birge and Vadim Linetsky.

A Comprehensive Analysis of the Short-Term Interest Rate Dynamics (with Bali), **Journal of Banking and Finance**, 2006, 30(4), 1269-1290.

Crash-O-Phobia: A Domestic Fear or A Worldwide Concern? (with Foresi), **Journal of Derivatives**, 2005, 13(2), 8-21.

Specification Analysis of Option Pricing Models Based on Time-Changed Lévy Processes (with Huang), **Journal of Finance**, 2004, 59(3), 1405-1439.

Time-Changed Lévy Processes and Option Pricing (with Carr), **Journal of Financial Economics**, 2004, 27(1), 113-141.

What Type of Process Underlies Options? A Simple Robust Test (with Carr), **Journal of Finance**, 2003, 58(6), 2581-2610.

Finite Moment Log Stable Process and Option Pricing (with Carr), **Journal of Finance**, 2003, 58(2), 753-777.

Are Interest Rate Derivatives Spanned by the Term Structure of Interest Rates? (with Heidari), **Journal of Fixed Income**, 2003, 13(1), 75-86.

Design and Estimation of Quadratic Term Structure Models (with Leippold), **European Finance Review**, 2003, 7(1), 47-73.

Jumps and Dynamic Asset Allocation, **Review of Quantitative Finance and Accounting**, 2003, 20(3), 207-243.

Asset Pricing Under the Quadratic Class (with Leippold), **Journal of Financial and Quantitative Analysis**, 2002, 37(2), 271-295.

Predictable Changes in Yields and Forward rates (with Backus, Foresi, and Mozumdar), **Journal of Financial Economics**, 2001, 59(3), 281-311.

WORKING PAPERS

Linearity-Generating Processes, Unspanned Stochastic Volatility, and Interest-Rate Option Pricing (with Carr and Gabaix)

Taylor Rule as Bridge to Inflation Forecasting (with Hua)

Real Exchange Rates and Economic Fundamentals: Toward a Resolution of the PPP Puzzle (with Goswami and Shrikhande).

Market Pricing of Economic Risks and Stock Returns (with Tang)

Earnings Day Variance Ratio: Stock Market Responses to Earnings Announcements (with Sy and Tang)

Estimating Risk-Return Relations with Analysts Price Targets

Understanding the Centrality of the Supply Chain

Decomposing the Yield Curve (with Carr)

CLASSES TAUGHT

Financial Management, Financial Decision Making, Financial Environments, Managerial Finance, Derivatives Markets, Option Pricing (doctoral class), Fixed Income Securities, Internship in Finance.

EDITORIAL Associate Editor for Review of Derivatives Research, Journal of Derivatives, Review of Finance

REFEREEING *Journal of Finance, Review of Financial Studies, American Economic Review, Econometrica, Journal of Financial and Quantitative Analysis, Journal of International Economics, Journal of Empirical Finance, Journal of Business, Management Science, Journal of Monetary Economics, Mathematical Finance, Journal of Business and Economic Statistics, Journal of Money, Credit and Banking, Journal of Banking and Finance, Journal of Econometrics, Journal of International Money and Finance, Journal of Economic Dynamics and Control, Finance & Stochastics, Risk, Journal of Futures Markets, Review of Derivatives Research, Financial Analysts Journal, International Journal of Theoretical and Applied Finance, Review of Economics and Statistics, Review of Finance, Quantitative Finance, Spanish Economic Review, Review of Quantitative Finance and Accounting, Review of Pacific Basin Financial Markets and Policies, Annual Research Conference in Financial Risk, Financial Management Association meetings.*

REFERENCES Peter Carr, Tandon School of Engineering, New York University; (917) 621-7733; pcarr@nyc.rr.com

Robert Engle, Stern School of Business, New York University; (212) 998-0713; rengle@stern.nyu.edu

Gurdip Bakshi, Smith School of Business, University of Maryland; (301) 405-2261; gbakshi@rhsmith.umd.edu