

Viktor Todorov

CONTACT INFORMATION

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Northwestern University
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EDUCATION

Duke University, Durham, North Carolina, USA

Ph.D. in Economics, May 2007

- PhD Thesis: “Jump Processes in Finance: Modeling, Simulation, Inference and Pricing”
- Advisors: George Tauchen (chair), Tim Bollerslev, Ron Gallant, Han Hong

Central European University, Budapest, Hungary

M.A. in Economics, June 2002

Varna University of Economics, Varna, Bulgaria

B.A. in Finance, June 1999

RESEARCH INTERESTS

Asset Pricing, Derivatives, Theoretical and Applied Econometrics, Applied Probability

ACADEMIC APPOINTMENTS

Finance Department, Kellogg School of Management, Northwestern University
Assistant Professor of Finance **2007 - present**

PUBLICATIONS

- [1] Todorov, V. and G. Tauchen, “Volatility Jumps”, accepted for publication in *Journal of Business and Economic Statistics*.
- [2] Todorov, V. and G. Tauchen, “Limit Theorems for Power Variations of Pure-Jump Processes with Application to Activity Estimation”, accepted for publication in *Annals of Applied Probability*.
- [3] Todorov, V., “Econometric Analysis of Jump-Driven Stochastic Volatility Models”, forthcoming in *Journal of Econometrics*.
- [4] Andersen, T. and V. Todorov, “Realized Volatility and Multipower Variation”, forthcoming in *Encyclopedia of Quantitative Finance*, Ole Barndorff-Nielsen and Eric Renault (eds).
- [5] Jacod, J. and V. Todorov, “Do Price and Volatility Jump Together?”, *Annals of Applied Probability*, 2010, 20(4), pp 1425-1469.
- [6] Todorov, V. and T. Bollerslev, “Jumps and Betas: A New Theoretical Framework for Disentangling and Estimating Systematic Risks”, *Journal of Econometrics*, 2010, 157, pp 220-235.
- [7] Todorov, V., “Variance Risk Premium Dynamics: The Role of Jumps”, *The Review of Financial Studies*, 2010, 23(1), pp 345-383.
- [8] Todorov, V. and G. Tauchen, “Activity Signature Functions for High-Frequency Data Analysis”, *Journal of Econometrics*, 2010, 154, pp 125-138.

[9] Jacod, J. and V. Todorov, “Testing for Common Arrivals of Jumps for Discretely Observed Multidimensional Processes”, *Annals of Statistics*, 2009, 37, pp 1792-1838.

[10] Todorov, V., “Estimation of Continuous-Time Stochastic Volatility Models with Jumps using High-Frequency Data”, *Journal of Econometrics*, 2009, 148, pp 131-148.

[11] Todorov, V. and G. Tauchen, “Simulation Methods for Levy-Driven CARMA Stochastic Volatility Models”, *Journal of Business and Economic Statistics*, 2006, 24(4), pp 455-469.

WORKING PAPERS

[12] Bollerslev, T. and V. Todorov, “Jump Tails, Extreme Dependencies and the Distribution of Stock Returns”, September 2010, submitted to *Journal of Econometrics*.

[13] Todorov, V., G. Tauchen and I. Gryniv, “Realized Laplace Transforms for Estimation of Jump Diffusive Volatility Models”, August 2010, submitted to *Journal of Econometrics*.

[14] Bollerslev, T. and V. Todorov, “Estimation of Jump Tails”, April 2010, revision requested by *Econometrica*.

[15] Todorov, V. and G. Tauchen, “The Realized Laplace Transform of Volatility”, February 2010, revision requested by *Econometrica*.

[16] Bollerslev, T. and V. Todorov, “Tails, Fears and Risk Premia”, March 2010, revision submitted to *Journal of Finance*.

HONORS AND AWARDS

2010-2013 NSF Grant: “Estimation of Jump-Tails: Theory and Applications”, with Tim Bollerslev.

2008 Arnold Zellner Thesis Award for Best Thesis in Business and Economic Statistics, American Statistical Association.

PROFESSIONAL SERVICE

Memberships:

Econometric Society, Western Finance Association

Journal referee:

Annals of Applied Probability, Annals of Statistics, Bernoulli Journal, Econometrica, Econometric Theory, International Journal of Forecasting, Journal of Applied Probability, Journal of Business and Economic Statistics, Journal of Econometrics, Journal of Economic Dynamics and Control, Journal of Empirical Finance, Journal of Finance, Journal of Financial Econometrics, Journal of Financial Economics, Management Science, Mathematical and Computer Modelling, Mathematical Finance, Review of Economics and Statistics, Review of Economic Studies, Southern Economics Journal, Statistics and Computing

Program Committee: 2010 Conference of the Society for the Financial Econometrics (SoFiE)

SEMINARS AND CONFERENCE PRESENTATIONS

2011: Econometric Society meetings, Denver, Colorado (presentation+discussion, scheduled);

2010: The interplay between Financial and Insurance Mathematics, Statistics and Econometrics, Wolfgang Pauli Institute, Vienna University, Austria; Duke University, Financial Econometrics;

IIT, Applied Mathematics; Federal Reserve Board, Washington DC; 12-th Annual Financial Econometrics Conference, University of Waterloo, Canada; Workshop on Financial Econometrics, Fields Institute, Canada; Warwick Business School Conference on Derivatives, Volatility and Correlation, England; Chicago GSB; WFA meetings, Victoria, Canada; European Statistical Meetings, Athens, Greece; NSF-NBER Time Series Conference, Duke University; SIAM Conference on Financial Mathematics and Engineering, San Francisco; Warwick Business School, England (scheduled); University of Brussels, Belgium (scheduled);

2009: UIC, Finance; Northwestern, Statistics; CIRANO-CIREQ Financial Econometrics Conference, Montreal (discussant); Stevanovich-CREATES Financial Econometrics Conference, Skagen, Denmark; SoFiE Annual Conference, Geneva, Switzerland; WFA meetings, San Diego (discussant); Economic Analysis of High-Frequency Data and the Impact of Economic News, Stanford Institute for Theoretical Economics; Joint Statistical Meetings, Washington DC; Oberwolfach Workshop on Challenges in Statistical Theory, Oberwolfach, Germany; Princeton Financial Econometrics Conference, Princeton University; Stevanovich-SoFiE conference on liquidity, credit risk and extreme events, Chicago;

2008: Triangle Econometrics Conference, North Carolina; Quantitative Economics Seminar, Queen's University, Canada; Vast Data and Financial Econometrics Conference, University of Oxford; NSF-NBER Time Series Conference, Aarhus, Denmark; Purdue University Financial Mathematics Seminar; University of Chicago Finance and Statistics Workshop; Financial Econometrics Conference, Imperial College London; Volatility Symposium, CREATES Denmark;

2007: NSF-NBER Time Series Conference, Iowa; Economic Analysis of High-Frequency Data and the Impact of Economic News, Stanford Institute for Theoretical Economics; Oberwolfach Workshop on Levy Processes and Related Topics, Oberwolfach, Germany; Board of Governors; Carnegie-Mellon; Chicago GSB; Cornell; LSE-Finance; Northwestern-Kellogg; NYU-Stern; Princeton; Stanford GSB;

2006: Conference in Honor of Ole Barndorff-Nielsen, Guanajuato, Mexico; Conference on Realized Volatility, Montreal;

2005: Conference on International Finance, Copenhagen, Denmark; Levy Processes SAMSI working group, Durham;

Last updated November 28, 2010