Nikolay Gospodinov
Curriculum Vitae

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Current and Previous Appointments

- **Financial Economist and Senior Adviser**, Research Department, Federal Reserve Bank of Atlanta, January 2018 – present
- **Financial Economist and Adviser**, Research Department, Federal Reserve Bank of Atlanta, July 2013 – December 2017
- **Professor**, Department of Economics, Concordia University, June 2012 – June 2013
- **Associate Professor**, Concordia University, June 2005 – May 2012
- **Assistant Professor**, Concordia University, July 2000 – May 2005
- **Visiting Appointments**:
  - Leadership Exchange Program, Federal Reserve Bank of New York, July 2018 – October 2018
  - Department of Economics, Emory University, January 2016 – May 2016
  - Department of Economics, University of Montréal, August 2011 – December 2011
  - Department of Finance, Desautels Faculty of Management, McGill University, June 2006 – May 2007
  - CIREQ Research Fellow, 2002 – 2014
  - CIRANO Research Fellow, 2012 – present

Education

- **Ph.D.** in Economics, Boston College, September 1996 – June 2000
- **B.A.**, **M.A.** in Economics, University of National and World Economy, Bulgaria
  - Visiting student, Oxford University, 1992 – 1993

Book

- **Methods for Estimation and Inference in Modern Econometrics** (with S. Anatolyev), Chapman and Hall/CRC Press (2011)

Journal Articles and Book Chapters

1. **2021**: On the Factor Structure of Bond Returns (with R. K. Crump), **Econometrica**, forthcoming
   MATLAB Codes

2. **2021**: Capital Share Risk in U.S. Asset Pricing: A Reappraisal (with C. Robotti), **Journal of Finance**, Replications and Comments
   Earlier Version
   MATLAB Codes

3. **2021**: Common Pricing across Asset Classes: Empirical Evidence Revisited (with C. Robotti), **Journal of Financial Economics**, 140, 292–324
   Online Appendix

4. **2021**: Generalized Aggregation of Misspecified Models: With an Application to Asset Pricing (with E. Maasoumi), **Journal of Econometrics**, 222, 451–467

5. **2019**: Too Good to Be True? Fallacies in Evaluating Risk Factor Models (with R. Kan and C. Robotti), **Journal of Financial Economics**, 132, 451–471
   MATLAB Codes

6. **2019**: Multivariate Return Decomposition: Theory and Implications (with S. Anatolyev), **Econometric Reviews**, 38, 487–508

7. **2018**: Market Consistent Valuations with Financial Imperfection (with H. Assa), **Decisions in Economics and Finance**, 41, 65–90

8. **2018**: Asymptotic Variance Approximations for Invariant Estimators in Uncertain Asset-Pricing Models (with R. Kan and C. Robotti), **Econometric Reviews**, 37, 695–718
   Online Appendix

9. **2018**: Monetary Policy Uncertainty, Positions of Traders and Changes in Commodity Futures Prices (with I. Jamali), **European Financial Management**, 24, 239–260

10. **2017**: Spurious Inference in Reduced-Rank Asset-Pricing Models (with R. Kan and C. Robotti), **Econometrica**, 85, 1613–1628
    PDF file of the paper
    Supplementary Material
    MATLAB Codes

11. **2017**: Foreign Exchange Predictability and the Carry Trade: A Decomposition Approach (with S. Anatolyev, I. Jamali and X. Liu), **Journal of Empirical Finance**, 42, 199–211

12. **2017**: A Robust Approach to Hedging and Pricing in Imperfect Markets (with H. Assa), **Risks**, Volume 5, Issue 3 (special issue on Quantile Regression for Risk Assessment)

13. **2017**: Simulated Minimum Distance Estimation of Dynamic Models with Errors-in-Variables (with I. Komunjer and S. Ng), **Journal of Econometrics**, 200, 181–193
    MATLAB Codes

14. **2016**: On the Properties of the Constrained Hansen-Jagannathan Distance (with R. Kan and C. Robotti), **Journal of Empirical Finance**, 36, 121–150
    MATLAB Codes

15. **2015**: Minimum Distance Estimation of Possibly Non-Invertible Moving Average Models (with S. Ng), **Journal of Business & Economic Statistics**, 33, 403–417

16. **2015**: The Response of Stock Market Volatility to Futures-Based Measures of Monetary Shocks (with I. Jamali), **International Review of Economics and Finance**, 37, 42–54

17. **2014**: A Moment-Matching Method for Approximating Vector Autoregressive Processes by Finite-State Markov Chains (with D. Lkhagvasuren), **Journal of Applied Econometrics**, 29, 843–859
    Online Appendix
    MATLAB Codes

18. **2014**: Misspecification-Robust Inference in Linear Asset-Pricing Models with Irrelevant Risk Factors (with R. Kan and C. Robotti), **Review of Financial Studies**, 27, 2139–2170
    Online Appendix
    MATLAB Codes

19. **2013**: Unit Roots, Cointegration and Pretesting in VAR Models (with A. M. Herrera and E. Pesavento), **Advances in Econometrics**, 32, 81–115

20. **2013**: Commodity Prices, Convenience Yields, and Inflation (with S. Ng), **Review of Economics and Statistics**, 95, 206–219
    PDF file of the paper with Online Appendix
    Data and MATLAB Codes

21. **2013**: Chi-Squared Tests for Evaluation and Comparison of Asset Pricing Models (with R. Kan and C. Robotti), **Journal of Econometrics**, 173, 108–125
    Online Appendix
    MATLAB Codes

22. **2013**: Asset Pricing Theories, Models, and Tests (with C. Robotti), in **Portfolio Theory and Management**, H. K. Baker and M. G. Filbeck (eds.), Oxford University Press

23. **2012**: Further Results on the Limiting Distribution of GMM Sample Moment Conditions (with R. Kan and C. Robotti), **Journal of Business & Economic Statistics**, 30, 494–504
Online Appendix

24. **2012**: Local GMM Estimation of Time Series Models with Conditional Moment Restrictions (with T. Otsu), **Journal of Econometrics**, 170, 476–490

25. **2012**: Nonparametric Estimation of Scalar Diffusion Models of Interest Rates Using Asymmetric Kernels (with M. Hirukawa), **Journal of Empirical Finance**, 19, 595–609
Data and GAUSS Codes

26. **2012**: The Effects of Federal Funds Rate Surprises on S&P500 Volatility and Volatility Risk Premium (with I. Jamali), **Journal of Empirical Finance**, 19, 497–510

27. **2012**: Asymptotics of Near Unit Roots (with S. Anatolyev), **Quantile**, 10, 57–71

28. **2011**: Sensitivity of Impulse Responses to Small Low Frequency Co-movements: Reconciling the Evidence on the Effects of Technology Shocks (with A. Maynard and E. Pesavento), **Journal of Business & Economic Statistics**, 29, 455–467
Online Appendix

29. **2011**: Bootstrap Unit Root Tests in Models with GARCH(1,1) Errors (with Y. Tao), **Econometric Reviews**, 30, 379–405
Data and GAUSS Codes

30. **2011**: Risk Premiums and Predictive Ability of BAX Futures (with I. Jamali), **Journal of Futures Markets**, 31, 534–561

31. **2011**: Specification Testing in Models with Many Instruments (with S. Anatolyev), **Econometric Theory**, 27, 427–441
Additional Simulation Results

32. **2010**: Modeling Financial Return Dynamics via Decomposition (with S. Anatolyev), **Journal of Business & Economic Statistics**, 28, 232–245
Results for Quarterly Data

33. **2010**: Inference in Nearly Nonstationary SVAR Models with Long-Run Identifying Restrictions, **Journal of Business & Economic Statistics**, 28, 1–12

34. **2009**: A New Look at the Forward Premium Puzzle, **Journal of Financial Econometrics**, 7, 312–338

35. **2009**: Tobacco Taxes and Regressivity (with I. Irvine), **Journal of Health Economics**, 28, 375–384

36. **2008**: Asymptotic and Bootstrap Tests for Linearity in a TAR-GARCH(1,1) Model with a Unit Root, **Journal of Econometrics**, 146, 146–161
Data and GAUSS Codes

37. **2006**: Forecasting Volatility (with A. Gavala and D. Jiang), **Journal of Forecasting**, 25, 381–400

38. **2005**: Testing for Threshold Nonlinearity in Short-Term Interest Rates, **Journal of Financial Econometrics**, 3, 344–371
Data and GAUSS Codes

39. **2005**: A 'Long March' Perspective on Tobacco Use in Canada (with I. Irvine), **Canadian Journal of Economics**, 38, 366–393

40. **2005**: Robust Asymptotic Inference in Autoregressive Models with Martingale Difference Errors, **Econometric Reviews**, 24, 59–81
Selected as Best Paper published in *Econometric Reviews* in 2004 and 2005

41. **2004**: Asymptotic Confidence Intervals for Impulse Responses of Near-Integrated Processes, **Econometrics Journal**, 7, 505–527
GAUSS Codes

42. **2004**: Global Health Warnings on Tobacco Packaging: Evidence from the Canadian Experiment (with I. Irvine), **Topics in Economic Analysis & Policy**, 4, Issue 1, Article 30

43. **2002**: Median Unbiased Forecasts for Highly Persistent Autoregressive Processes, **Journal of Econometrics**, 111, 85–101
Data and GAUSS Codes

44. **2002**: Improved Finite-Sample Inference in Overidentified Models with Weak Instruments, **Recent Advances in Statistical Methods**, Y.P. Chaubey (ed.), Imperial College Press, London, 132–146

45. **2002**: Bootstrap-Based Inference in Models with a Nearly Noninvertible Moving Average Component, **Journal of Business & Economic Statistics**, 20, 254–268
Data and GAUSS Codes

46. **2000**: An Empirical Likelihood Ratio Test for a Unit Root: Solution to Problem 99.2.1 (with V. Zinde-Walsh), **Econometric Theory**, 16, 143–146

Notes and Blogs

1. May 2021: Is There a Global Factor in U.S. Bond Yields?, FRBA **Macroblog**
   see also Global Factors in U.S. Yield Curve
   see also Effects of Uncertainty on the Yield Curve

2. March 2021: The Persistent Compression of the Breakeven Inflation Curve (with R. K. Crump and D. Volker), FRBNY **Liberty Street Economics**

3. March 2019: Carry Factors: Characteristics and Informational Content (with I. Jamali), FRBA **Notes from the Vault**

4. January 2018: Good Models, Bad Models, FRBA **Notes from the Vault**

5. November 2017: Risk-On/Risk-Off in the Long Run, FRBA **Notes from the Vault**

6. January 2016: Are Long-Term Inflation Expectations Declining? Not So Fast, Says Atlanta Fed (with P. Tkac and B. Wei), FRBA **Macroblog**
   see also A Note on Extracting Inflation Expectations from Market Prices of TIPS and Inflation Derivatives (with B. Wei)

Working Papers

1. Deconstructing the Yield Curve (with R. K. Crump), **FRBNY Staff Report No. 884**

2. Elusive Stars: Robust Trend Estimation (with R. K. Crump and H. Wieman)

3. Specification Tests for Conditional Moment Restrictions Under Local Identification Failure (with P. Dovonon)

4. Inference in Conditional Vector Error-Correction Models with Small Signal-to-Noise Ratio (with A. Maynard and E. Pesavento)

5. Long-Horizon Stock Valuation and Return Forecasts Conditional on Demographic Projections (with C. Chen, A. Maynard and E. Pesavento)

6. Recent Developments in U.S. Short-Term Funding Markets

7. Asset Co-Movements: Features and Challenges, **FRBA Working Paper 2017-11**

8. The Role of Commodity Prices in Forecasting U.S. Core Inflation, **FRBA Working Paper 2016-5**

9. Forecasts of Inflation and Interest Rates in No-Arbitrage Affine Models (with B. Wei), **FRBA Working Paper 2016-3**

Research Grants

- Social Sciences and Humanities Research Council (SSHRC) of Canada:
  - 2017 – 2022 (Collaborator)
  - 2013 – 2016 (CAD 123,228; Principal investigator)
  - 2010 – 2013 (CAD 53,500; Principal investigator)
  - 2005 – 2008 (CAD 50,703; Principal investigator)
  - 2002 – 2005 (CAD 22,150; Principal investigator)
  - 2001 – 2004 (CAD 26,100, Co–applicant)
- Fonds Québécois de la Recherche sur la Société et la Culture (FQRSC):
  - 2010 – 2014 (CAD 376,584; Team grant)
  - 2005 – 2009 (CAD 359,000; Team grant)
  - 2002 – 2005 (CAD 45,000; Principal investigator)
- Institut de Finance Mathématique de Montréal (IFM2):
  - 2010 – 2013 (CAD 60,000; Principal investigator)
  - 2005 – 2006 (CAD 20,000; Principal investigator)

Refereeing Activity

- **Selected Journals**: Econometrica; Econometric Reviews; Econometric Theory; Econometrics; Econometrics Journal; International Economic Review; International Journal of Central Banking; Journal of Applied Econometrics; Journal of Banking and Finance; 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 and Quantitative Analysis, Journal of Forecasting; Journal of Futures Markets; Journal of Money, Credit and Banking; Journal of Time Series Analysis; Macroeconomic Dynamics; Quantitative Economics; Review of Economics and Statistics; Review of Finance; Review of Financial Studies
- **Granting Agencies**: National Science Foundation (NSF); Natural Sciences and Engineering Research Council of Canada (NSERC); Social Sciences and Humanities Research Council (SSHRC); Research Grants Council (RGC) of Hong Kong; Italian Research Assessment VQR
- Federal Reserve System's CCAR Model Validation

Member of Editorial Boards

- **Econometric Reviews**, Associate Editor, 2011 – present
  - Committee Chair for Best Paper Award, 2006 – 2016, 2017 – 2018, 2019 – 2020
- **Policy Hub** (Atlanta Fed publication), 2020 – present
- **International Econometric Review**, Associate Editor, 2006 – 2017

- **Stat**, Associate Editor, 2012 – 2014

Member of Conference Program Committees

- 2021 North American Summer Meeting of the Econometric Society, Society of Financial Econometrics conference (2020, 2021), Annual Meeting of the Federal Reserve System Committee on Econometrics (2021), Financial Market Conference (2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021); OU Energy and Commodities Finance Research Conference (2019); "The Impact of Extraordinary Monetary Policy on the Financial Sector" Conference (2016); Workshop on Nonparametric Curve Smoothing (2013); CIREQ Time Series Conference (2013, 2011, 2009, 2005); Statistics Canada (2011); Humboldt–Copenhagen Conference in Financial Econometrics (2011); Montréal Econometrics Seminar Series (2010–2011); Canadian Econometrics Study Group (2008, 2007, 2006); Canadian Economic Association Meeting (2008); GMM Conference (2007)

Presentations and Discussions

- **Recent Invited Talks**:
  - "Asset Co-movements: Features and Challenges" at the 2017 Financial Markets Conference "Managing Global Financial Risks: Shifting Sands and Shock Waves"
  - "Inflation Expectations: Challenges and Misperceptions" at the 2016 BNP Paribas Inflation Forum
  - "Econometric Analysis of Low-Frequency Co-Movements" at the 2016 Workshop on Impact of Demographics on Asset Values
  - Mini-course on "The Econometrics of Misspecified Asset Pricing Models" at Western University (2016)
- **Recent Seminar Presentations**: McGill University (Finance), Indiana University, McGill University (Economics), Emory University, Boston University, University of California - San Diego, Federal Reserve Bank of New York, ESSEC (Paris), Vanderbilt University; North Carolina State University; Queen's University; Columbia University; Carleton University; University of British Columbia; University of Montréal; HEC
- **Recent Conference Presentations**: 2019 North American Econometric Society Meeting, 2018 Annual Meeting of the Southern Economic Association (Washington DC), International Symposium on Financial Engineering and Risk Management (Shanghai, China), CIREQ Econometrics Conference on "Recent Advances in the Method of Moments", Conference on Financial Econometrics and Risk Management (Western University), Annual SoFiE Conference (Toronto); NBER-NSF Time Series Conference (2014, 2010, 2006); NFA Conference (Ottawa); All--Georgia Finance Conference; Metro--Atlanta Econometrics Study Group Meeting; Canadian Econometrics Study Group (2012, 2007, 2006); Mathematical Finance Days (2012, 2010); 3rd Annual CIRPÉE Applied Financial Time Series Workshop;

Humboldt--Copenhagen Conference in Financial Econometrics (Copenhagen); CIREQ Time Series Conference (2010, 2009); Joint Statistical Meeting (Washington, DC); Colloquium "Computationally-Intensive Econometrics" (McGill University); International Symposium on Forecasting (2008, 2007); International Conference of the Society for Computational Economics (2008, 2007); Conference on Generalized Method of Moments; Conference on Forecasting in Time Series (Duke University); Canadian Economic Association Meeting

- **Recent Conference Discussions**: Recent Advances on Bootstrap Methods, Montréal (2019); Annual Meeting of the Southern Economic Association, Washington DC (2018); Workshop for Commodities and Macroeconomics, FRB Dallas (2018); Day-Ahead Conference, FRB Philadelphia (2108); MFA Conference (2016); NFA Conference (2014); CIREQ Time Series and Financial Econometrics Conference (2013); Canadian Econometrics Study Group (2012, 2007); CIREQ Time Series Conference (2011, 2009, 2006, 2005)

University Service, Teaching and Supervision

- **Graduate Program Director** (Dept. of Economics, Concordia University), 2007 – 2011
- **Teaching**:
  - **graduate level**: Econometric Theory, Time Series Econometrics, Financial Economics, Risk Management
  - **undergraduate level**: Financial Econometrics, Econometrics, Macroeconomic Theory
- **Supervision**:
  - Ph.D. students (main supervisor): 7 students
  - M.A. research papers (main supervisor): 41 students
  - Thesis Committee Member: Ph.D. (5 students), M.A. (44 students)
  - External Thesis Examiner: Ph.D. (8 students), M.A. (6 students)