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CURRICULUM VITAE

Eric Ghysels

PRESENT POSITION:	Edward M. Bernstein Distinguished Professor of Economics and Professor of Finance, Kenan-Flagler Business School University of North Carolina
ADDRESS:	Department of Economics Gardner Hall University of North Carolina at Chapel Hill Chapel Hill, NC 27599-3305
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EDUCATION

1979	University of Brussels, B.A. Economics, Supra Cum Laude
1982	Northwestern University, M.A. Economics
1984	Northwestern University, Kellogg Graduate School of Management, Ph.D. (Managerial Economics and Decision Science) Thesis Committee: V.V. Chari, T. Doan, R. Hodrick, P.E. Rossi
2019	HEC Liège, Doctorate in Business Administration (Honoris Causa)

AWARDS, FELLOWSHIPS AND HONORS

1980-81	Fulbright Fellow, Hoover Foundation, Belgian American Educational Foundation
1981-1984	Research Fellow, National Science Foundation of Belgium
1985	ASA/NSF/Census Fellow, American Statistical Association, Washington, D.C.
1990	Keynote Speaker, World Congress of the Econometric Society, Barcelona
1991-1992	Research Fellow, Cowles Foundation, Yale University
1992	Research Fellow, Institute of Empirical Macroeconomics
1995	Invited Speaker, Brazilian Econometric Society, Salvador, Bahia
1995	Keynote Speaker, American Statistical Association, Orlando
1997	Nomination for Harry Johnson Best Paper Award, Canadian Journal of Economics
1998	Chair-Elect, Business and Economic Statistics Section, American Statistical Association
1998	Speaker, Invited Econometrics Session, Econometric Society European Meetings, Berlin

1998	Nomination for the Smith Breeden Prize, Journal of Finance
1999	Chair, Business and Economic Statistics Section, American Statistical Association
1999	WFA Award, NYSE Best Paper Award in Equity Trading
1999	Keynote Speaker, EC^2 Conference on Financial Econometrics, Madrid, Spain
2000	Invited Speaker, International Conference on Seasonality in Economic and Financial Variables, Algarve, Portugal
2001	Nomination for the Smith Breeden Prize, Journal of Finance
2001	Fellow, Journal of Econometrics
2001	Fellow, American Statistical Association
2001-2002	Honorary Simon Visiting Professor, University of Manchester
2002	Listed in Who's Who in Economics. Fourth Edition.
2003	Invited Speaker, International Statistical Institute Meetings, Berlin.
2003	Keynote Speaker, Portuguese Statistical Association, Faro.
2003	Best Paper in Investments Award, Southern Finance Association.
2003	Invited Speaker, Conference on Analysis of High-Frequency Financial Data and Market Microstructure, Academia Sinica, Taiwan.
2004	Invited Speaker, Time Series Modeling in Marketing, Tuck School of Business at Dartmouth.
2005	Keynote Speaker, EC^2 Conference on Financial Econometrics, Istanbul, Turkey.
2005	Keynote Speaker, Society for Computational Economics Annual International Conference, Washington DC.
2005	Honorary Fellow, European Society for Computational Methods in Sciences and Engineering.
2005	Keynote Speaker, International Symposium on Advances in Financial Forecasting, Greece.
2005	Keynote Speaker, Symposium for *Deutsche Bank* Prize in Financial Economics in honor of Eugene F. Fama, Frankfurt, Germany.
2006	Keynote Speaker, 2006 International Symposium on Financial Engineering and Risk Management, Xiamen University, China.
2006	Keynote Speaker, Canadian Econometrics Study Group, Niagara Falls, Canada.
2007	Invited Speaker, Far Eastern Meetings of the Econometric Society, Taipei.
2007	All-Star JFE paper Chernov-Ghysels (2000)
2007	Keynote Speaker, Singapore Econometric Study Group
2008	Keynote Speaker, 2008 International Symposium on Nonlinear Time Series Econometrics with Applications (NTSEA2008), Wang Yanan Institute for Studies in Economics (WISE), Xiamen University, China.
2008	Keynote Speaker, International Forecasting Conference, Rio de Janeiro, Brazil.
2008	Founding Co-President, Society for Financial Econometrics (SoFiE) – with Robert Engle (NYU).
2008-2009	Resident Scholar, Research Department, Federal Research Bank of New York.
2009	Keynote Speaker, International Symposium on Financial Engineering and Risk Management, Xiamen University, China.

2009	Best Paper Award, Chinese International Conference of Finance - Guangzhou.
2009	Visiting Scholar, Federal Reserve Bank of New York.
2010	Elected as Voting Member of the Belgian American Educational Foundation.
2010	Invited Speaker, Financial Engineering and Risk Management Conference, Taipei.
2010	Keynote speaker, 6th Eurostat Colloquium on "Modern Tools for Business Cycle Analysis: The Lessons from Global Economic Crisis", Luxemburg.
2010	Keynote Speaker, International Conference on High-Dimensional Econometric Modeling, Cass Business School, London.
2010	Visiting Scholar, Federal Reserve Bank of New York.
2011	Fernand Braudel Senior Fellow, European University Institute, Florence, Italy.
2011	ET Conversation with Eric Ghysels, by Peter C.B. Phillips and Jun Yu.
2011	Presidential Address - Fourth SoFiE Annual Meeting, University of Chicago.
2011	Wim Duisenberg Fellow, European Central Bank.
2011	Western Finance Association Best Paper Award.
2012	Keynote speaker, Singapore Management University-ESSEC Business School Symposium on Empirical Finance and Financial Econometrics, Singapore.
2012	Marie Curie Fellow, University of Cyprus
2012	Fellow, Society for Financial Econometrics (SoFiE Fellow).
2012	Visiting Scholar, Federal Reserve Bank of New York.
2012	Visiting Researcher, National Bank of Belgium.
2013	Marie Curie Fellow, University of Cyprus
2013	Keynote Speaker, Inquire Europe, Edinburgh.
2013	Visiting Scholar, Federal Reserve Bank of New York.
2013	Invited Speaker, Central Bank of Cyprus
2013	Visiting Researcher, National Bank of Belgium.
2013	Visiting Researcher, Federal Reserve Bank of Chicago
2014	Keynote speaker Bank of Portugal conference on Econometric Methods for Banking - Lisbon.
2014	Visiting Scholar Federal Reserve Bank of New York.
2014	Visiting Scholar National Bank of Belgium.
2014	Invited Professor, INET Cambridge University, UK.
2014	Invited speaker Eighth International Conference on Computational and Financial Econometrics, University of Pisa.
2015	Keynote speaker International Symposium in Statistics on Advances in Parametric and Semiparametric Analysis of Multivariate, Time Series, Spatial-temporal, and Familial-longitudinal Data, St. John's Canada.
2015	Keynote Speaker, Second Workshop on High Dimensional Time Series in Macroeconomics and Finance, Institute for Advanced Studies, Vienna.
2015	Visiting Professor, Stevanovich Center, University of Chicago.
2015	Visiting Scholar, National Bank of Belgium.
2015	Keynote Speaker, Ninth Annual Risk Management Conference, RMI, Singapore.
2016	Keynote Speaker, French Finance Association, Belgium.

2017	Keynote Speaker, Belgian Finance Club
2017	Visiting Professor, Università della Svizzera Italiana, Lugano
2017	Invited Speaker, Derivatives Conference: State of the Art, NYU
2017	Keynote Speaker - Centre Interfacultaire Bernoulli, Closing Conference - Stochastic Dynamical Models in Mathematical Finance, Econometrics, and Actuarial Sciences, Lausanne, Switzerland.
2017	Invited Speaker, 10th Annual Meetings SoFiE, New York
2017	Tommaso Padoa-Schioppa Visiting Professorship Bocconi University, Milan
2017	Inaugural Emil Gumbel Lecture, Heidelberg University
2018	Tommaso Padoa-Schioppa Visiting Professorship Bocconi University, Milan
2018	Invited Speaker, CARE conference, Leesburg, VA
2018	Visiting Professor, Kobe University, Japan
2018	Keynote Speaker, Fourth Annual Conference VINS, Shanghai, China
2019	Invited Speaker, Centennial Alumni Weekend Meeting, Kenan-Flagler Business School
2019	Invited Speaker, Joint Research Centre (JRC) European Commission conference on Big data and macroeconomic forecasting, Italy
2019	Invited Speaker, AI in Finance, SoFiE conference Shanghai, China
2019	Doctor Honoris Causa, HEC Liège, Belgium
2019	Keynote Speaker, Chinese Economists Society, Dailan, China

OTHER ACADEMIC APPOINTMENTS

CEPR Research Fellow
Research Fellow, CIRANO, Montreal
Research Affiliate, The Volatility Institute, NYU Stern

PUBLICATIONS

1980

1. "The Information Content of Preliminary and Final Belgian GNP Data" (with J. Vuchelen), *Cahiers Économiques de Bruxelles* 87, 407-432 (in Dutch).

1981

2. "The Use of DULBEA GNP Figures in Business Cycle Analysis" (with J. Vuchelen), *Cahiers Économiques de Bruxelles* 89, 53-73 (in Dutch).

1982

3. "Philosophy of Sciences in Economics", *Tijdschrift voor Ekonomie en Management* 27, 455-473 (in Dutch).

4. “Time Series Analysis and Errors in GNP – A Theoretical Correction of Ghysels and Vuchelen”, *Cahiers Économiques de Bruxelles* 96, 489-495.

1987

5. “Seasonal Adjustment without Too Much a Priori Economic Theory”, *1986 Proceedings of the American Statistical Association*, Business and Economic Statistics Section, 150-153.

6. “Seasonal Extraction in the Presence of Feedback”, *Journal of Business and Economic Statistics* 5, 191-194.

7. “On Non-Stationarity and Induced Seasonality in Inventories”, *1987 Proceedings of the American Statistical Association*, Business and Economic Statistics Section, 477-481.

1988

8. “Seasonality in Surveys: A Comparison of Belgian, French and German Business Tests” (with M. Nerlove), *European Economic Review* 32, 81-99.

9. “Evidence from the Belgian Business Tests on Seasonal Instability of Relationships among Responses” (with M. Nerlove), in *Contributions of Business Cycle Surveys to Empirical Economics,* Karl-Heinrich Oppenendel and Günter Poser (eds.), Aubury Gower Publ. Co., England, 379-399.

10. “A Study Towards a Dynamic Theory of Seasonality for Economic Time Series”, *Journal of the American Statistical Association*, 168-172.

1989

11. “Y a-t-il des biais systématiques dans les annonces budgétaires et pourquoi?” (with J.F. David), *Canadian Public Policy/Analyse de Politique*, XV(3), 313-321.

1990

12. “Testing Non-Nested Euler Conditions with Quadrature-Based Methods of Approximation” (with A. Hall), *Journal of Econometrics* 46, 273-308.

13. “Are Consumption-Based Intertemporal Capital Asset Pricing Models Structural?” (with A. Hall), *Journal of Econometrics* 45, 121-139.

14. “Unit Root Tests and Statistical Pitfalls of Seasonal Adjustment: The Case of U.S. Post-War Real GNP”, *Journal of Business and Economic Statistics* 8, 145-152.

15. “A Test for Structural Stability of Euler Conditions Parameters Estimated Via the Generalized Method of Moments Estimator” (with A. Hall), *International Economic Review* 31, 355-364.

16. “On Estimating Dynamic Models with Seasonality”, in *Telecommunications Demand Modeling*, A. de Fontenay et al. (eds.) Contributions to Economic Analysis-North Holland, Amsterdam.

1992

17. “A Study Towards a Dynamic Theory of Seasonality for Economic Time Series”, *Journal of the American Statistical Association*. Reprinted in *Modelling Seasonality*, S. Hylleberg (ed.), Oxford University Press, 181-192.

1993

18. “An Extension of Quadrature-Based Methods for Solving Euler Conditions” (with A. Hall), in *New Direction in Time Series Analysis*, D. Brillinger et al. (eds.), Springer-Verlag, New York, 147-153.

19. “The Effect of Seasonal Adjustment Filters on Tests for a Unit Root” (with P. Perron), *Journal of Econometrics* 55, 57-98.

20. “On Scoring Asymmetric Periodic Probability Models of Turning-Point Forecasts”, *Journal of Forecasting* 12, 227-238.

21. “The ET Interview: Professor Marc Nerlove”, *Econometric Theory* 9, 117-144.

22. “On Seasonal (Mis)Specification: An Empirical Investigation with U.S. Data” (with H.S. Lee and P. Siklos), *Empirical Economics* 18, 747-760.

1994

23. “On Seasonality and Regime-Switching Models”, *1993 Proceedings of the American Statistical Association*, Business and Economic Statistics Section, 308-312.

24. “On the Economics and Econometrics of Seasonality.” Invited paper, 1990 World Congress of the Econometric Society, August 1990, in *Advances in Econometrics I*, C.A. Sims (ed.), Cambridge University Press, 257-316.

25. “On Seasonal (Mis)Specification: An Empirical Investigation with U.S. Data” (with H.S. Lee and P. Siklos), in *New Developments in Time Series Econometrics*, J.-M. Dufour and B. Raj (eds.), Springer-Verlag, Berlin, 191-204.

26. “Generalized Predictive Tests and Structural Change Analysis in Econometrics” (with J.M. Dufour and A. Hall), *International Economic Review* 35, 199-229.

27. “Testing for Unit Roots in Seasonal Time-Series – Some Theoretical Extensions and a Monte-Carlo Investigation” (with H.S. Lee and J. Noh), *Journal of Econometrics* 62, 415-442.

28. “L’analyse économétrique et la saisonnalité”, L’actualité économique 20, 43-62.

29. “On the Periodic Structure of the Business Cycle”, *Journal of Business and Economic Statistics* 12, 289-298.

30. “Changes in Seasonal Patterns: Are They Cyclical?” (with F. Canova), *Journal of Economic Dynamics and Control* 18, 1143-1171.

31. “Comments on ‘Bayesian Analysis of Stochastic Volatility Models’ by E. Jacquier, N. Polson and P. Rossi” (with J. Jasiak), *Journal of Business and Economic Statistics* 12, October 1994, 399-402.

1995

32. “Is the Federal Budget Process Outcome Unbiased and Efficient: A Nonparametric Assessment” (with B. Campbell), *Review of Economics and Statistics* 77, 17-31.

33. “The Effect of Linear Filters on Dynamic Time Series with Structural Change” (with P. Perron), *Journal of Econometrics* 70, 69-98.

34. “Is Seasonal Adjustment a Linear or Nonlinear Data-Filtering Transformation?” (with C.W.J. Granger and P. Siklos). Invited *JBES* paper, *Journal of Business and Economic Statistics* 14, 139-152. Reprinted in Newbold, P. and S.J. Leybourne (2003) “Recent Developments in Time Series”, Edward Elgar. Reprinted in “Essays in Econometrics: collected Papers of Clive W.J. Granger: Vol. I, Cambridge University Press

35. “Dynamic Regression of Filtered Data Series: A Laplace Approximation of the Effects of Filtering in Small Samples” (with O. Lieberman), *Econometric Theory* 12, 432-457.

36. “Stochastic Volatility” (with A. Harvey and E. Renault), in *Handbook of Statistics 14, Statistical Methods in Finance*, G.S. Maddala and C.R. Rao (eds.), North Holland, Amsterdam, Ch. 5, 119-191.

37. “On the Periodic Structures and Testing for Seasonal Unit Roots” (with A. Hall and H.S. Lee), *Journal of the American Statistical Association* 91, 1551-1559.

38. “Comments and Reply to W.R. Bell, D. Findley, S. Hylleberg and M. Watson” (*Journal of Business and Economic Statistics* 1995 Invited Paper) 14, 387-397.

1996

39. “Comments on ‘New Capabilities and Methods of X-12-ARIMA Seasonal Adjustment Program’” by David F. Findley, Brian Monsell, William R. Bell, Mark Otto and Bor-Chung Chen” *Journal of Business and Economic Statistics* 16, 165-167.

1997

40. “On Seasonality and Business Cycle Durations: A Nonparametric Investigation”, *Journal of Econometrics* 79, 269-290.

41. “Seasonal Adjustment and Other Data Transformations”, *Journal of Business and Economic Statistics* 15, 410-418.

42. “An Empirical Analysis of the Canadian Budget Process” (with B. Campbell), *Canadian Journal of Economics* 30, 553-576. (Nominated for the Harry Johnson Best Paper Award – five papers nominated.)

43. “L’Intégration des Marchés Emergents et la modélisation d’Actifs Risqués: Une Etude Appliquée à la Bourse des Valeurs de Casablanca” (with M. Boyer and M. Cherkaoui), *L’actualité économique*, 73, 311-330.

44. “Predictive Tests for Structural Change with Unknown Breakpoint” (with A. Guay and A. Hall), *Journal of Econometrics* 82, 209-233. [Corrigendum, *Journal of Econometrics* 30, 337-343.].

45. “High Frequency Financial Time Series Data: Some Stylized Facts and Models of Stochastic Volatility” (with C. Gouriéroux and J. Jasiak), in *Nonlinear Modelling of High Frequency Financial Time Series* C. Dunis and B. Zhou (eds.), John Wiley, New York, 127-159.

46. “Nonparametric Methods and Option Pricing” (with V. Patilea, E. Renault and O. Torrès), in *Statistics in Finance*, D. Hand and S. Jacka (eds.), Edward Arnold, London, Chapter 13, 261-282.

47. “Market Time and Asset Price Movements: Theory and Estimation” (with C. Gouriéroux and J. Jasiak), in *Statistics in Finance*, D. Hand and S. Jacka (eds.), Edward Arnold, London, Chapter 15, 307-332.

48. “An Introduction to Econometric Theory” by R. Gallant, Princeton University Press, 1997, *Journal of the American Statistical Association* 94, 1522-1523.

1998

49. “On Stable Factor Structures in the Pricing of Risk: Do Time-Varying Betas Help or Hurt?” *Journal of Finance* 53, 549-573. (Nominated for the Smith Breeden Prize)

50. “Structural Change and Asset Pricing in Emerging Markets” (with R. Garcia), *Journal of International Money and Finance* 17, 455-473.

51. “Kernel Autocorrelogram for Time Deformed Processes” (with C. Gouriéroux and J. Jasiak), *Journal of Statistical Inference and Planning* 68, 167-192.

52. “Bayesian Inference for a General Class of Periodic Markov Switching Regime Models” (with R. McCulloch and R. Tsay), *Journal of Applied Econometrics* 13, 129-144.

53. “GARCH for Irregularly Spaced Financial Data: The ACD-GARCH Model” (with J. Jasiak), *Studies in Nonlinear Dynamics and Econometrics* 2, 133-149.

54. “A Semi-Parametric Factor Model of Interest Rates and Tests of the Affine Term Structure” (with S. Ng), *Review of Economics and Statistics* 80, 535-548.

1999

55. “A Multivariate Time Series Analysis of the Data Revision Process for Industrial Production and Composite Leading Indicator” (with N. Swanson and M. Callan) in R. Engle and H. White (eds.), *Clive W.J. Granger Festschrift*, Oxford University Press, 45-75.

2000

56. “American Options with Stochastic Dividends and Volatility: A Nonparametric Investigation” (with M. Broadie, J. Detemple and O. Torrès), *Journal of Econometrics* 94, 53-92.

57. “Some Econometric Recipes for High Frequency Data Cooking”, *Journal of Business and Economic Statistics* 18, 154-163.

58. “Nonparametric Estimation of American Option Exercise Boundaries and Call Prices” (with M. Broadie, J. Detemple and O. Torrès), *Journal of Economic Dynamics and Control* 24, 1829-1857.

59. “Price Discovery without Trading: The Case of the Nasdaq Pre-opening” (with C. Cao and F. Hatheway, *Journal of Finance* 55, 1339-1366.). (NYSE Best Paper Award – WFA Meetings 1999, Santa Monica)

60. "A Study Towards a Unified Approach to the Joint Estimation of Objective and Risk Neutral Measures for the Purpose of Options Valuation" (with M. Chernov), *Journal of Financial Economics* 56, 407-458. (All-Star JFE paper selection based on average yearly citations).

61. "A Time Series Model with Periodic Stochastic Regime Switching, Part I: Theory" *Macroeconomic Dynamics* 4, 467-486.

62. "Causality between Returns and Traded Volumes" (with C. Gouriéroux and J. Jasiak), *Annales d'Économie et de Statistique* 60, 189-206.

63. "Estimation of Stochastic Volatility Models for the Purpose of Option Pricing" (with M. Chernov) in Y.S. Abu-Mostafa, B. LeBaron, A.W. Lo and A.S. Weigend (eds.), *Computational Finance – Proceedings of the Sixth International Conference, Leonard N. Stern School of Business*, MIT Press, 567-582.

64. "Seasonal Nonstationarity and Near-Stationarity" (with D. Osborn and P. Rodrigues) in B. Baltagi (ed.), *Companion in Theoretical Econometrics,* Basil Blackwell, 655-677.

2001

65. "A Time Series Model with Periodic Stochastic Regime Switching, Part II: Applications to 16th and 17th Century Grain Prices" (with C. Bac and J.M. Chevet), *Macroeconomic Dynamics* 5, 32-55.

66. "Is Seasonal Adjustment a Linear or Nonlinear Data-Filtering Transformation?" (with C.W.J. Granger and P. Siklos). Invited *JBES* paper, *Journal of Business and Economic Statistics* 14, 374-386. Reprinted in "Essays in Econometrics: Collected Papers of Clive W.J. Granger: Volume I", Cambridge University Press.

2002

67. "Rolling-Sample Volatility Estimators: Some New Theoretical, Simulation and Empirical Results" (with Elena Andreou), *Journal of Business and Economic Statistics* 20, 363-376.

68. "Let's Get 'Real' about using Economic Data" (with Peter Christoffersen and Norman Swanson), *Journal of Empirical Finance* 9, 343-360.

69. "Monetary Policy Rules with Model and Data Uncertainty" (with Norman R. Swanson and Myles Callan), *Southern Economic Journal*, 69, 239-265.

70. "Detecting multiple breaks in financial market volatility dynamics" (with E. Andreou), *Journal of Applied Econometrics* 17, 579-600.

71. “Seasonal Time Series and Autocorrelation Function Estimation”, (with H.S. Lee and W.R. Bell), *Manchester School,* 70, 651-664.

2003

72. “Emerging Markets and Trading Costs: Lessons from Casablanca” (with M. Cherkaoui), *Journal of Empirical Finance 10*, 169-198.

73. “Structural Change Tests for Simulated Method of Moments” (with Alain Guay) *Journal of Econometrics 115,* 91-123.

74. “Simulation Based Inference in Moving Average Models” (with Linda Khalaf and Cosme Vodounou), *Annales d’Economie et de Statistique*, 69, 85-99.

75. “Alternative Models of Stock Price Dynamics” (with M. Chernov, A.R. Gallant and G. Tauchen), *Journal of Econometrics,* 116, 225-257.

76. “Tests for breaks in the conditional co-movements of asset returns” (with E. Andreou), *Statistica Sinica*, 13, 1045-1074.

2004

77. “Stochastic Volatility Durations” (with C. Gouriéroux and J. Jasiak), *Journal of Econometrics*, 119, 413-435.

78. “The Impact of Sampling Frequency and Volatility Estimators on Change-Point Tests” (with E. Andreou), *Journal of Financial Econometrics,* 2, 290-318.

79. “Testing for Structural Change in the Presence of Auxiliary Models” (with A. Guay), *Econometric Theory* 20, 1168-1202.

80. “Modeling Market Dynamics by Time Series Econometrics” (with Koen Pauwels, Imran Currim, Marnik Dekimpe, Dominique M. Hanssens, Natalie Mizik, and Prasad Naik), *Marketing Letters*, 15:4, 167-183.

2005

81. “A Study Towards a Unified Approach to the Joint Estimation of Objective and Risk Neutral Measures for the Purpose of Options Valuation” (with M. Chernov), *Journal of Financial Economics*, Reprinted in *Stochastic Volatility: Selected Readings*, N. Shephard (ed.), Oxford University Press, 398-448.

82. “The Asian Financial Crisis: The Role of Derivative Securities Trading and Foreign Investors”, (with J. Seon), *Journal of International Money and Finance*, V 24, 607-630.

83. “There is a Risk-return Trade-off After All”, (with P. Santa-Clara and R. Valkanov), *Journal of Financial Economics,* 76, 509-548.

84. “Do Heterogeneous Beliefs Matter for Asset Pricing?” (with E. Anderson and J. Juergens), *Review of Financial Studies*, 18, 875-924.

2006

85. “Comments on Hansen and Lunde” *Journal of Business and Economic Statistics,* 24, 192-194.

86. “Predicting Volatility: How to Get Most Out of Returns Data Sampled at Different Frequencies” (with P. Santa-Clara and R. Valkanov), *Journal of Econometrics*, 131, 59-95.

87. “Sampling Frequency and Window Length Trade-offs in Data-Driven Volatility Estimation: Appraising the Accuracy of Asymptotic Approximations” (with E. Andreou), in Thomas B. Fomby and Dek Terrell (eds.) *Advances in Econometrics: Econometric Analysis of Economic and Financial Time Series, Part A – Volume 20*, 155-182.

88. “Monitoring Distortions in Financial Markets” (with E. Andreou), *Journal of Econometrics*, 135, 77-124.

89. “Forecasting and Seasonality”, (with D. Osborn and P. Rodriguez) in *Handbook of Economic Forecasting*, G. Elliot, C.W.J. Granger, and A. Timmermann (eds.), Elsevier, 660-711.

90. “MIDAS Regressions: Further Results and New Directions” (with A. Sinko and R. Valkanov), *Econometric Reviews*, 26, 53-90.

2007

91. “Why do absolute returns predict volatility so well?” (with L. Forsberg), *Journal of Financial Econometrics*, 5, 31-67.

92. “Efficient Estimation of Jump Diffusions and General Dynamic Models with a Continuum of Moment Conditions” (with M. Carrasco, M. Chernov, and J-P Florens), *Journal of Econometrics*, 140, 529-573.

93. “Valuation in the US Commercial Real Estate” (with A. Plazzi and R. Valkanov), *European Financial Management*, 13, 472-497.

2008

94. “Quality Control for Structural Credit Risk**”** (with E. Andreou), *Journal of Econometrics*, 146, 364-375.

95. "Liquidity and Conditional Portfolio Choice: A Nonparametric Investigation" (with J. P. Pereira), *Journal of Empirical Finance*, 15, 679-699.

2009

96. "The Normal Inverse Gaussian Distribution and the Pricing of Derivatives" (with A. Eriksson and F. Wang), *Journal of Derivatives,* Spring 2009, 16, 23-37.

97. **"**Structural Breaks in Financial Time Series" **(**with E. Andreou**),** in *Handbook of Financial Time Series*, Torben G. Andersen, Richard A. Davis, Jens-Peter Kreiss, Thomas Mikosch (eds), 839-870.

98. "The Impact of Risk and Uncertainty on Expected Returns" (with E. Anderson and J. Juergens), *Journal of Financial Economics,* 94, 233-263.

99. "Forecasting Professional Forecasters" (with Jonathan Wright*), Journal of Business and Economic Statistics,* 27, 504-516.

100. "Which Power Variation Predicts Volatility Well?" (with B. Sohn), *Journal of Empirical Finance,* 16, 686-700.

2010

101. "The Econometrics of Option Pricing" (with R. Garcia and E. Renault), H*andbook of Financial Econometrics*, Y. Aït-Sahalia and L.P. Hansen (eds.) North Holland, 479-552.

102. "Mixed Data Sampling" *Encyclopedia of Quantitative Finance*, Ole Barndorff-Nielsen and Eric Renault (eds) Vol. 3, 1204-1207.

103. "Regression Models with Mixed Sampling Frequencies" (with E. Andreou and A. Kourtellos), *Journal of Econometrics*, 158, 246-261.

2011

104. "Volatility Forecasting and Microstructure Noise" (with A. Sinko), *Journal of Econometrics*, 160, 257-271.

105. "HYBRID GARCH Models and Intra-Daily Return Periodicity" (with X. Chen and F. Wang), *Journal of Time Series Econometrics*, 3, 1, Article 11.

106. "Forecasting with Mixed-Frequency Data" (with E. Andreou and A. Kourtellos), Oxford *Handbook of Economic Forecasting*, Michael P. Clements and David F. Hendry (ed.) Chapter 8.

107. “News - Good or Bad - and its impact on volatility predictions over multiple horizons” (with X. Chen), *Review of Financial Studies* 24, 46-81.

108. “Derivatives Do Affect Mutual Fund Returns: Evidence from the Financial Crisis of 1998” (with C. Cao and F. Hatheway), *Journal of Futures Markets* 31, 629-658.

109. “A Component Model of Dynamic Correlations” (with R. Colacito and R. Engle), *Journal of Econometrics* 164, 45-59.

2012

110. “Volatility Prediction with MIDAS” (with R. Valkanov), *Wiley Handbook Volatility Models and Their Applications*, L. Bauwens, C. Hafner and S. Laurent (ed), Chapter 16, 383-401.

111. “ET Conversation with Eric Ghysels” by Peter C.B. Phillips and Jun Yu, *Econometric Theory* 28, 207-217.

2013

112. “Ex Ante Skewness and Expected Stock Returns” (with J. Conrad and R. Dittmar), *Journal of Finance* 68, 85-124.

113. Discussion of "An Approach for Identifying and Predicting Economic Recessions in Real-Time Using Time-Frequency Functional Models" by Holan, Yang, Matteson, and Wikle (with M. Owyang), *Applied Stochastic Models in Business and Industry*, 28, 500-501.

114. “State Space Models and MIDAS Regressions” (with J. Bai and J. Wright), *Econometric Reviews,* 32, 779–813.

115. “Should macroeconomic forecasters use daily financial data and how?” (with E. Andreou and A. Kourtellos), *Journal of Business and Economic Statistics* 31, 240-251.

116. "Stock Market Volatility and Macroeconomic Fundamentals" (with R. Engle and B. Sohn), *Review of Economics and Statistics* 93, 776-797.

117. “Forecasting Real Estate Prices” (with A. Plazzi, W. Torous and R. Valkanov), Chapter 9 in *Handbook of Economic Forecasting: Vol II*, G. Elliott and A. Timmermann (eds.), Elsevier, 509-580.

118. “Mixed Frequency Vector Autoregressive Models” (with C. Foroni and M. Marcellino), *VAR Models in Macroeconomics - New Developments and Applications: Essays in Honor of Christopher A. Sims* Advances in *Econometrics Vol. 32*, T. B. Fomby, L. Kilian and A. Murphy (eds.), 247-272.

2014

119. Comment on Hu, Yu-Pin, and Ruey S. Tsay. "Principal Volatility Component Analysis.", (with E. Andreou), *Journal of Business and Economic Statistics*, 32, 168-171.

120. "The Financial Content of Inflation Risks in the Euro Area", (with P. Andrade, V. Fourel and J. Idier), *International Journal of Forecasting*, 30, 648-659.

121. "Moment-Implied Densities: Properties and Applications", (with F. Wang), *Journal of Business and Economic Statistics*, 32, 88-111.

122. "Conditional Skewness with Quantile Regression Models: SoFiE Presidential Address and a Tribute to Hal White", *Journal of Financial Econometrics*, 12 620-644.

123. "Central Bank Macroeconomic Forecasting during the Global Financial Crisis: The European Central Bank and Federal Reserve Bank of New York Experiences", (with L. Alessi, L. Onorante, R. Peach, and S. Potter.), *Journal of Business and Economic Statistics*, 32, 483-500.

124. "Regime Switches in the Risk-Return Trade-off", (with Pierre Guérin and Massimiliano Marcellino), *Journal of Empirical Finance*, 28, 118-138.

2015

125. "Econometric Analysis of Volatility Component Models", (with F. Wang), *Econometric Theory*, 31, 362-393.

126. "HYBRID-GARCH: A Generic Class of Models for Volatility Predictions using High Frequency Data", (with Xilong Chen and Fangfang Wang), *Statistica Sinica*, 25, 759-786.

127. "On the size distortion from linearly interpolating low-frequency series for cointegration tests" (with J. Isaac Miller), *Essays in Honor of Peter C. B. Phillips Advances in Econometrics, Vol. 33, Chapter 4,* Thomas B. Fomby, Joon Y. Park and Yoosoon Chang (eds.), 93-122.

128. "Discount window stigma during the 2007-2008 financial crisis", (with Olivier Armantier, Asani Sarkar and Jeffrey Schrader), *Journal of Financial Economics,* 118, 317-355. (Pearson Award for the Best Paper on Financial Institutions and Markets, WFA Meetings 2011, Santa Fe)

129. "Real-Time Predictions of the U.S. Federal Government Budget: Expenditures, Revenues and Deficits", (with Nazire Ozkan), *International Journal of Forecasting,* 31, 1009-1020.

130. “Testing for Cointegration with Temporally Aggregated and Mixed-frequency Time Series”, (with J. Isaac Miller), *Journal of Time Series Analysis,* 36, 797-816.

2016

131. “Testing for Granger Causality with Mixed Frequency Data”, (with J. Hill and K. Motegi), *Journal of Econometrics*, 192, 207-230.

132. “Skewness in Expected Macro Fundamentals and the Predictability of Equity Returns: Evidence and Theory”, (with R. Colacito, J. Meng, and W. Siwasarit), *Review of Financial Studies,* 29, 2069-2109.

133. “Macroeconomics and the Reality of Mixed Frequency Data”, *Journal of Econometrics,* 193, 294-314.

134. “Mixed Frequency Data Sampling Regression Models: the R Package midasr (with Virmantas Kvedaras and Vaidotas Zemlys), *Journal of Statistical Software,* 72, Issue 4.

135. “Why Invest in Emerging Markets? The Role of Conditional Return Asymmetry”, (with A.J. Plazzi and R. Valkanov), *Journal of Finance,* 71, 2145–2192.

136. “Frailty Models for Commercial Mortgages”, (with Xi Chen and Roland Telfeyan), *Journal of Fixed Income*, 26, 16-31.

2017

137. "A high frequency assessment of the ECB Securities Markets Programme", (with Julien Idier, Simone Manganelli and Olivier Vergote), *Journal of the European Economic Association*, 15, 218-243.

138. "Comment on “Should we sample a time series more frequently? decision support via multirate spectrum estimation”, Guy P. Nason, Ben Powell, Duncan Elliott and Paul A. Smith", (with R. Solgi and A. Mira), *Journal of the Royal Statistical Society - Series A,* 180, 394.

139. "Indirect Inference Estimation of Mixed Frequency Stochastic Volatility State Space Models using MIDAS Regressions and ARCH Models", (with P. Gagliardini and M. Rubin), *Journal of Financial Econometrics,* 15, 509-560.

2018

140. “Forecasting through the Rear-View Mirror: Data Revisions and Bond Return Predictability”, (with C. Horan and E. Moench), *Review of Financial Studies*, 31, 678–714.

141. “Mixed Frequency Models” in *Oxford Research Encyclopedia of Economics and Finance*, March 2018.

142. “Automated Earnings Forecasts: Beat Analysts or Combine and Conquer?” (with Ryan Ball), *Management Science*, 64, 4471-4965.

143. “Long- and Short-term Cryptocurrency Volatility Components: A GARCH-MIDAS Analysis” (with C. Conrad and A. Custovic), *Journal of Risk and Financial Management*, 11, 23-34.

2019

144. “Estimating MIDAS Regressions via OLS with Polynomial Parameter Profiling” (with Hang Qian), Econometrics and Statistics, 9, 1-16.

145. “MIDAS regression models” in *Econometrics Using R – Handbook of Statistics, Volume 38*, C.R. Rao and H. Vinod (ed.) (with V. Kvedaras and V. Zemlys), (forthcoming).

146. "Testing a Large Set of Zero Restrictions in Regression Models with an Application to Mixed Frequency Granger Causality"(with J. Hill and K. Motegi), *Journal of Econometrics* (forthcoming).

147. “Commercial and Residential Mortgage Default Spatial Dependence with Frailty”, (with A. Babii and X. Chen), *Journal of Econometrics* (forthcoming).

148. “Comment on *Price Discovery in High Resolution* by Joel Hasbrouck”, *Journal of Financial Econometrics* (forthcoming).

149, “Liquidity and Volatility in the U.S. Treasury Market” (with G. Nguyen, R. Engle and M. Fleming), *Journal of Econometrics* (forthcoming).

150. “ET Interview – Jean-Pierre Florens” (with A. Babii), *Econometric Theory* (forthcoming).

151. “Tilting the Evidence: The Role of Firm-level Earnings Attributes in the Relation Between Aggregated Earnings and Gross Domestic Product” (with R. Ball and L. Gallo), *Review of Accounting Studies* (forthcoming).

152. “Inference in Group Factor Models with an Application to Mixed Frequency Data”, (with E. Andreou, P. Gagliardini and M. Rubin), *Econometrica* (forthcoming).

BOOKS

“The Econometric Analysis of Seasonal Time Series” (with Denise Osborn), Cambridge University Press (2001).

“Essays in Econometrics: Collected Papers of Clive W.J. Granger: Volumes I and II” (with N. Swanson and M. Watson), Cambridge University Press (2001).

“Applied Economic Forecasting using Time Series Methods” (with Massimiliano Massimiliano) Oxford University Press (2018).

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Editor, Annals Issue of the *Journal of Econometrics* on “Econometric Methods for Derivative Securities and Risk Management” (with R. Garcia and E. Renault), 2000, Vol. 94, 1-2.
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