

PERSONAL INFORMATION

Name Morten Ørregaard Nielsen

Current position David Chadwick Smith Chair in Economics,
Canada Research Chair in Time Series Econometrics,
and Professor of Economics
at Dept. of Economics, Queen's University.

Mailing address Department of Economics
Dunning Hall Room 209
Queen's University
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Personal Born 1976, Danish citizen
Married to Marie-Louise Vierø, Associate Professor of Economics, Queen's University
Children: Adam (2009), Philippa (2011), Cecilia (2015)

RESEARCH INTERESTS

- Estimation and inference in fractional integration and cointegration models
- Semiparametric analysis of long memory processes
- Financial econometrics and high frequency data
- Unit root and cointegration testing
- Cluster-robust inference and bootstrap methods for clustered data

TEACHING INTERESTS

- Econometrics
- Time series analysis
- Probability and statistics
- Empirical finance

ACADEMIC AFFILIATIONS

March 2014 – External Fellow, Essex Centre for Financial Econometrics, Essex University.

July 2013 – David Chadwick Smith Chair in Economics, Dept. of Economics, Queen's University.

July 2012 – Canada Research Chair in Time Series Econometrics (tier 2), Dept. of Economics, Queen's University.

July 2011 – Professor, Dept. of Economics, Queen's University.

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| July 2008 – June 2013 | Stephen J. R. Smith Faculty Fellow, Dept. of Economics, Queen's University. |
| July 2008 – June 2011 | Associate Professor (with tenure), Dept. of Economics, Queen's University. |
| April 2007 – | International Fellow, Center for Research in Econometric Analysis of Time Series (CREATES), Aarhus University. |
| Nov. 2006 – June 2008 | Faculty member in the Field of Statistics, Dept. of Statistical Science, Cornell University. |
| Summers 2006 – 2008 | Visiting Professor, Dept. of Economics, Aarhus University. |
| July 2003 – June 2008 | Assistant Professor, Dept. of Economics, Cornell University. |
| Jan. 2003 – Aug. 2003 | Post-doctoral research fellow, Dept. of Economics, Aarhus University. |

EDUCATION

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| April 2003 | PhD Economics, Dept. of Economics, Aarhus University. Advisors: Niels Haldrup and Bent Jesper Christensen. Thesis: <i>Multivariate Fractional Integration and Cointegration</i> . Evaluation committee: Svend Hylleberg, Jörg Breitung, and Søren Johansen. |
| Jan. 2002 – June 2002 | Visiting PhD student, Dept. of Economics, Yale University. Local advisor: Peter C. B. Phillips. |
| July 2001 | MSc Economics (cand.oecon.), Dept. of Economics, Aarhus University. Thesis: <i>Efficient Likelihood Inference in Nonstationary Univariate Models</i> (published in <i>Econometric Theory</i> , 2004). |
| July 1999 | MSc Econometrics & Mathematical Economics, Dept. of Economics and Dept. of Statistics, London School of Economics. <i>Awarded with distinction.</i> |
| July 1998 | BSc Economics, Dept. of Economics, Aarhus University. Received <i>The McKinsey Award 1998</i> , "for the top Bachelor's Degree at the School of Economics and Management, Aarhus University." |

AWARDS AND HONORS

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| Oct. 2015 | Fellow, <i>Journal of Econometrics</i> . |
| Nov. 2014 | Inaugural member, <i>The Royal Society of Canada College of New Scholars, Artists and Scientists</i> . |
| May 2014 | <i>Innis Lecturer</i> , Canadian Economics Association Annual Conference. |
| March 2013 | <i>Queen's Economics Department Research Prize 2013</i> . |
| Feb. 2013 | <i>Econometric Theory Multa Scripsit Award</i> , "in recognition of research contributions to the science of econometrics." |
| March 2010 | <i>Queen's Economics Department Research Prize 2010</i> . |
| Jan. 2006 | <i>The Danish Independent Research Councils' Young Researcher's Award 2006</i> , "for very talented young researchers under 35 years old." |

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| Aug. 2005 | Honorable mention, <i>The 2005 Zellner Thesis Award in Business and Economic Statistics</i> , American Statistical Association. |
| June 2004 | <i>The Aarhus University Research Foundation PhD Prize 2004</i> , “for promising young researchers who recently finished their PhD with especially outstanding results.” |
| Marquis Who’s Who | Listed in <i>Marquis Who’s Who in America</i> since 2007, listed in <i>Marquis Who’s Who in the World</i> since 2008, recipient of the <i>Albert Nelson Marquis Lifetime Achievement Award 2017</i> . |

RESEARCH GRANTS

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| April 2017 – March 2022 | Social Sciences and Humanities Research Council of Canada (SSHRC) insight grant: <i>Improved econometric methods for heteroskedastic time series.</i> Funding for CAD 123,805 (approx. USD 96,500). |
| April 2012 – March 2017 | SSHRC insight grant: <i>Econometric analysis and application of the fractionally cointegrated VAR model.</i> Funding for CAD 126,992 (approx. USD 128,500). |
| April 2009 – March 2012 | SSHRC standard research grant: <i>Fractional cointegration in a vector autoregressive model.</i> Funding for CAD 59,568 (approx. USD 51,000). |
| July 2008 | Queen’s University Research Initiation Grant. |
| Jan. 2006 – Dec. 2008 | Danish Social Sciences Research Council (FSE) research grant: <i>Analysis of fractionally integrated and cointegrated time series with applications to the Nordic electricity market and volatility modeling.</i> Funding for DKK 560,324 (approx. USD 92,500). |
| May 2005 | Econometric Society World Congress 2005 travel grant. |
| Jan. 2003 – Dec. 2003 | Danish Social Sciences Research Council (SSF) post-doctoral grant: <i>Long memory, fractional integration, and cointegration: theory development and application.</i> Funding for DKK 587,285 (approx. USD 85,000). |

PROFESSIONAL SERVICE

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| Editorial boards | Guest Co-Editor (with J. Hualde), special issue of <i>Journal of Time Series Analysis</i> “In honor of the 35th anniversary of the publication of Geweke and Porter-Hudak (1983) in <i>JTSA</i> ” (expected 2019); Co-Editor, <i>Journal of Time Series Analysis</i> (Jan. 2018–); Associate Editor, <i>Econometric Theory</i> (March 2017–); Guest Co-Editor (with P. Narayan), special issue of <i>Journal of Banking and Finance</i> on “Recent developments in financial econometrics and applications” (2015, vol. 61, suppl. 2); Associate Editor, <i>Journal of Time Series Analysis</i> (Jan. 2013–Dec. 2017); Associate Editor, <i>Econometrics Journal</i> (Jan. 2012–); Associate Editor, <i>Journal of Applied Econometrics</i> (Jan. 2011–). |
| Conference organizer | Third CREATES Long Memory Symposium, Aarhus, Denmark (June 2013); Annual Canadian Econometric Study Group Conference, Kingston, Canada (Oct. 2012); Second CREATES Long Memory Symposium, Aarhus, Denmark (June 2011). |

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| Program committees | Annual CIREQ Econometrics Conference, Montreal, Canada (May 2013); Third CIREQ Time Series Conference, Montreal, Canada (May 2009); (EC) ² Conference: Recent Advances in Econometric Time Series, Faro, Portugal (Dec. 2007). |
| Granting agencies | Member of the adjudication committee for Social Sciences and Humanities Research Council of Canada (SSHRC) insight grants in economics (2013–2014). |
| Proposal reviewer | Canada Foundation for Innovation (CFI); Canada Research Chairs (CRC); Natural Sciences and Engineering Research Council of Canada (NSERC); Social Sciences and Humanities Research Council of Canada (SSHRC); Czech Science Foundation (GACR); Economic & Social Research Council, UK (ESRC). |
| Journal/book referee | <i>Applied Economics, Applied Economics Quarterly, Applied Financial Economics, Communications in Statistics – Simulation and Computation, Computational Statistics & Data Analysis, Econometric Reviews, Econometric Theory, Econometrica, Econometrics and Statistics, Econometrics Journal, Economic Modelling, Economics Bulletin, Economics Letters, E-economics, Empirical Economics, Finance Research Letters, Frontiers in Finance and Economics, IEEE Transactions on Signal Processing, International Review of Economics and Finance, Journal of Applied Econometrics, Journal of Banking & Finance, Journal of Business and Economic Statistics, Journal of Econometrics, Journal of Empirical Finance, Journal of Financial Econometrics, Journal of Financial Markets, Journal of Forecasting, Journal of Futures Markets, Journal of Multivariate Analysis, Journal of Statistical Planning and Inference, Journal of the American Statistical Association, Journal of Time Series Analysis, Journal of Time Series Econometrics, Macroeconomic Dynamics, Mathematical Finance, Oxford Bulletin of Economics and Statistics, Oxford University Press, Quantitative Economics, Review of Economic Studies, Review of Economics and Statistics, Scandinavian Journal of Economics, Studies in Nonlinear Dynamics & Econometrics.</i> |

REFEREED PUBLICATIONS IN JOURNALS

1. Johansen, S. & M.Ø. Nielsen (2018?) Testing the CVAR in the fractional CVAR model. Forthcoming in *Journal of Time Series Analysis*.
2. Johansen, S. & M.Ø. Nielsen (2018) The cointegrated vector autoregressive model with general deterministic terms. *Journal of Econometrics* 202, 214–229.
3. Dolatabadi, S., P.K. Narayan, M.Ø. Nielsen, & K. Xu (2018) Economic significance of commodity return forecasts from the fractionally cointegrated VAR model. *Journal of Futures Markets* 38, 219–242.
4. Nielsen, M.Ø. & S. Shibaev (2018) Forecasting daily political opinion polls using the fractionally cointegrated vector auto-regressive model. *Journal of the Royal Statistical Society Series A* 181, 3–33.
5. Cavaliere, G., M.Ø. Nielsen, & A.M.R. Taylor (2017) Quasi-maximum likelihood estimation and bootstrap inference in fractional time series models with heteroskedasticity of unknown form. *Journal of Econometrics* 198, 165–188.
6. Johansen, S. & M.Ø. Nielsen (2016) The role of initial values in conditional sum-of-squares estimation of nonstationary fractional time series models. *Econometric Theory* 32, 1095–1139.
7. Dolatabadi, S., M.Ø. Nielsen, & K. Xu (2016) A fractionally cointegrated VAR model with deterministic trends and application to commodity futures markets. *Journal of Empirical Finance* 38B, 623–639.
8. Christensen, B.J., M.Ø. Nielsen, & J. Zhu (2015) The impact of financial crises on the risk-return tradeoff and the leverage effect. *Economic Modelling* 49, 407–418.

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9. Cavaliere, G., M.Ø. Nielsen, & A.M.R. Taylor (2015) Bootstrap score tests for fractional integration in heteroskedastic ARFIMA models, with an application to price dynamics in commodity spot and futures markets. *Journal of Econometrics* 187, 557–579.
 10. Dolatabadi, S., M.Ø. Nielsen, & K. Xu (2015) A fractionally cointegrated VAR analysis of price discovery in commodity futures markets. *Journal of Futures Markets* 35, 339–356.
 11. Nielsen, M.Ø. (2015) Asymptotics for the conditional-sum-of-squares estimator in multivariate fractional time-series models. *Journal of Time Series Analysis* 36, 154–188.
 12. Boswijk, H.P., M. Jansson, & M.Ø. Nielsen (2015) Improved likelihood ratio tests for cointegration rank in the VAR model. *Journal of Econometrics* 184, 97–110.
 13. Jones, M.E.C., M.Ø. Nielsen, & M.K. Popiel (2014) A fractionally cointegrated VAR analysis of economic voting and political support. *Canadian Journal of Economics* 47, 1078–1130.
 14. Jensen, A.N. & M.Ø. Nielsen (2014) A fast fractional difference algorithm. *Journal of Time Series Analysis* 35, 428–436.
 15. MacKinnon, J.G. & M.Ø. Nielsen (2014) Numerical distribution functions of fractional unit root and cointegration tests. *Journal of Applied Econometrics* 29, 161–171.
 16. Johansen, S. & M.Ø. Nielsen (2012) Likelihood inference for a fractionally cointegrated vector autoregressive model. *Econometrica* 80, 2667–2732.
 17. Jansson, M. & M.Ø. Nielsen (2012) Nearly efficient likelihood ratio tests of the unit root hypothesis. *Econometrica* 80, 2321–2332.
 18. Johansen, S. & M.Ø. Nielsen (2012) A necessary moment condition for the fractional functional central limit theorem. *Econometric Theory* 28, 671–679.
 19. Frederiksen, P., F.S. Nielsen, & M.Ø. Nielsen (2012) Local polynomial Whittle estimation of perturbed fractional processes. *Journal of Econometrics* 167, 426–447.
 20. Nielsen, M.Ø. & P. Frederiksen (2011) Fully modified narrow-band least squares estimation of weak fractional cointegration. *Econometrics Journal* 14, 77–120.
 21. Jansson, M. & M.Ø. Nielsen (2011) Nearly efficient likelihood ratio tests for seasonal unit roots. *Journal of Time Series Econometrics* 3, issue 1, article 5.
 22. Busch, T., B.J. Christensen, & M.Ø. Nielsen (2011) The role of implied volatility in forecasting future realized volatility and jumps in foreign exchange, stock, and bond markets. *Journal of Econometrics* 160, 48–57.
 23. Haldrup, N., F.S. Nielsen, & M.Ø. Nielsen (2010) A vector autoregressive model for electricity prices subject to long memory and regime switching. *Energy Economics* 32, 1044–1058.
 24. Johansen, S. & M.Ø. Nielsen (2010) Likelihood inference for a nonstationary fractional autoregressive model. *Journal of Econometrics* 158, 51–66.
 25. Christensen, B.J., M.Ø. Nielsen, & J. Zhu (2010) Long memory in stock market volatility and the volatility-in-mean effect: the FIEGARCH-M model. *Journal of Empirical Finance* 17, 460–470.
 26. Nielsen, M.Ø. (2010) Nonparametric cointegration analysis of fractional systems with unknown integration orders. *Journal of Econometrics* 155, 170–187.
 27. Andersen, T.G., T. Bollerslev, P. Frederiksen, & M.Ø. Nielsen (2010) Continuous-time models, realized volatilities, and testable distributional implications for daily stock returns. *Journal of Applied Econometrics* 25, 233–261.
 28. Nielsen, M.Ø. (2009) A powerful test of the autoregressive unit root hypothesis based on a tuning parameter free statistic. *Econometric Theory* 25, 1515–1544.
 29. Frederiksen, P. & M.Ø. Nielsen (2008) Bias-reduced estimation of long-memory stochastic volatility. *Journal of Financial Econometrics* 6, 496–512.
 30. Nielsen, M.Ø. & P.H. Frederiksen (2008) Finite sample accuracy and choice of sampling frequency in integrated volatility estimation. *Journal of Empirical Finance* 15, 265–286.
 31. Zussman, A., N. Zussman, & M.Ø. Nielsen (2008) Asset market perspectives on the Israeli-Palestinian conflict. *Economica* 75, 84–115.
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32. Nielsen, M.Ø. & K. Shimotsu (2007) Determining the cointegrating rank in nonstationary fractional systems by the exact local Whittle approach. *Journal of Econometrics* 141, 574–596.
33. Christensen, B.J. & M.Ø. Nielsen (2007) The effect of long memory in volatility on stock market fluctuations. *Review of Economics and Statistics* 89, 684–700.
34. Nielsen, M.Ø. (2007) Local Whittle analysis of stationary fractional cointegration and the implied-realized volatility relation. *Journal of Business and Economic Statistics* 25, 427–446.
35. Haldrup, N. & M.Ø. Nielsen (2007) Estimation of fractional integration in the presence of data noise. *Computational Statistics & Data Analysis* 51, 3100–3114.
36. Haldrup, N. & M.Ø. Nielsen (2006) Directional congestion and regime switching in a long memory model for electricity prices. *Studies in Nonlinear Dynamics & Econometrics* 10, issue 3, article 1.
37. Haldrup, N. & M.Ø. Nielsen (2006) A regime switching long memory model for electricity prices. *Journal of Econometrics* 135, 349–376.
38. Christensen, B.J. & M.Ø. Nielsen (2006) Asymptotic normality of narrow-band least squares in the stationary fractional cointegration model and volatility forecasting. *Journal of Econometrics* 133, 343–371.
39. Nielsen, M.Ø. & P.H. Frederiksen (2005) Finite sample comparison of parametric, semiparametric, and wavelet estimators of fractional integration. *Econometric Reviews* 24, 405–443.
40. Nielsen, M.Ø. (2005) Multivariate Lagrange multiplier tests for fractional integration. *Journal of Financial Econometrics* 3, 372–398.
41. Nielsen, M.Ø. (2005) Semiparametric estimation in time-series regression with long-range dependence. *Journal of Time Series Analysis* 26, 279–304.
42. Nielsen, M.Ø. (2005) Noncontemporaneous cointegration and the importance of timing. *Economics Letters* 86, 113–119.
43. Nielsen, M.Ø. (2004) Optimal residual-based tests for fractional cointegration and exchange rate dynamics. *Journal of Business and Economic Statistics* 22, 331–345.
44. Brendstrup, B., S. Hylleberg, M.Ø. Nielsen, L. Skipper, & L. Stentoft (2004) Seasonality in economic models. *Macroeconomic Dynamics* 8, 362–394.
45. Nielsen, M.Ø. (2004) Efficient inference in multivariate fractionally integrated time series models. *Econometrics Journal* 7, 63–97.
46. Nielsen, M.Ø. (2004) Spectral analysis of fractionally cointegrated systems. *Economics Letters* 83, 225–231.
47. Nielsen, M.Ø. (2004) Local empirical spectral measure of multivariate processes with long range dependence. *Stochastic Processes and their Applications* 109, 145–166.
48. Nielsen, M.Ø. (2004) Efficient likelihood inference in nonstationary univariate models. *Econometric Theory* 20, 116–146.

EDITORIALS, COMMENTS, ETC.

49. Narayan, P.K. & M.Ø. Nielsen (2015) Guest editors' introduction: Special issue of Journal of Banking and Finance on recent developments in financial econometrics and applications. *Journal of Banking and Finance* 61, S99–S100.
50. Andersen, T.G., T. Bollerslev, P.H. Frederiksen, & M.Ø. Nielsen (2006) Comment on P. R. Hansen and A. Lunde: "Realized Variance and Market Microstructure Noise." *Journal of Business and Economic Statistics* 24, 173–179.

CURRENT WORKING PAPERS

(*: DOWNLOADABLE FROM MY WEBSITE)

51. *Fast and wild: bootstrap inference in Stata using boottest (with D. Roodman, J.G. MacKinnon, and M.D. Webb). QED working paper 1406.

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52. *Nonstationary cointegration in the fractionally cointegrated VAR model (with S. Johansen). QED working paper 1405.
 53. *Adaptive inference in heteroskedastic fractional time series models (with G. Cavaliere and A.M.R. Taylor). QED working paper 1390.
 54. *Bootstrap and asymptotic inference with multiway clustering (with J.G. MacKinnon and M.D. Webb.). QED working paper 1386.
 55. *Asymptotic theory and wild bootstrap inference with clustered errors (with A.A. Djogbenou and J.G. MacKinnon). QED working paper 1399. (A previous version was circulated as QED working paper 1383 under a slightly different title.)
 56. *Truncated sum of squares estimation of fractional time series models with deterministic trends (with J. Hualde). QED working paper 1376.
 57. *A Matlab program and user's guide for the fractionally cointegrated VAR model (with M.K. Popiel). QED working paper 1330.
 58. The fractionally cointegrated VAR model with deterministic terms (with S. Johansen). Work in progress.

OTHER PAPERS

59. FCVARmodel.m: A Matlab software package for estimation and testing in the fractionally cointegrated VAR model (with L. Morin). QED working paper 1273, Aug. 2011 – March 2014.
60. The information content of Treasury bond options concerning future volatility and price jumps (with T. Busch and B.J. Christensen). QED working paper 1188, February 2006.
61. Forecasting exchange rate volatility in the presence of jumps (with T. Busch and B.J. Christensen). QED working paper 1187, December 2005.
62. The implied-realized volatility relation with jumps in underlying asset prices (with B.J. Christensen). QED working paper 1186, November 2005.

SOFTWARE

(DOWNLOADABLE FROM MY WEBSITE)

Data files and Ox programs for adaptive CSS estimation.

Latest version: October, 2017

Reference: Cavaliere, Nielsen, and Taylor (2017, QED working paper 1390)

Stata .do file to perform bootstrap procedures for two-way clustered data.

Latest version: August, 2017

Reference: MacKinnon, Nielsen, and Webb (QED working paper 1386)

Matlab program for estimation and testing in the fractionally cointegrated VAR model.

Latest version: 1.4.0a (May 1, 2018)

This program replaces an earlier program by Nielsen and Morin (2014, QED working paper 1273)

References: Nielsen and Popiel (2018, QED working paper 1330)

Johansen and Nielsen (2012, *Econometrica*)

Computer programs for the fast fractional difference algorithm (Matlab, Ox, and R).

Latest version: May 10, 2013

Reference: Jensen and Nielsen (2014, *Journal of Time Series Analysis*)

Computer program to calculate critical values and P values for fractional unit root and cointegration tests.

Latest version: May, 2012 (bug fixed April 28, 2014)

References: MacKinnon and Nielsen (2014, *Journal of Applied Econometrics*)
 Johansen and Nielsen (2012, *Econometrica*)

Matlab program for nearly efficient likelihood ratio tests of the unit root hypothesis (written with Michal Popiel).

Latest version: April 3, 2015

Reference: Jansson and Nielsen (2012, *Econometrica*)

Ox programs to calculate NBLS, FMNBLS, and other narrow-band least squares estimators.

Latest version: July 13, 2012

References: Nielsen and Frederiksen (2011, *Econometrics Journal*)
 Christensen and Nielsen (2006, *Journal of Econometrics*)

Ox program to calculate nonparametric fractional cointegration rank tests.

Latest version: July, 2009

Reference: Nielsen (2010, *Journal of Econometrics*)

Matlab program to implement exact local Whittle cointegration rank determination procedure.

Latest version: February, 2007 (typo corrected June, 2013)

Reference: Nielsen and Shimotsu (2007, *Journal of Econometrics*)

CONFERENCE PRESENTATIONS

Keynote addresses and named lectures

- Dec. 2014 Keynote address, Conference on Recent Developments in Financial Econometrics and Appl., Centre for Economics and Financial Econometrics Research, Deakin University, Australia.
- May 2014 *Innis Lecture*, Canadian Economics Association Annual Conference, Vancouver, Canada.
- May 2014 Keynote address, Conference on Performance of Financial Markets and Credit Derivatives, Centre for Economics and Financial Econometrics Research, Deakin University, Australia.

Invited presentations

- 2015 – Long Memory Workshop, Hannover, Germany (scheduled Oct. 2018); 10th York Econometrics Symposium, York, England (June 2017); VIECO: Vienna-Copenhagen Conference on Financial Econometrics, Vienna, Austria (March 2017); DAGStat, 4th convention of the German Consortium in Statistics, Göttingen, Germany (March 2016); Workshop on long memory and nonstationary time series and panels, Frankfurt, Germany (May 2015).
- 2010 – 2014 Workshop on Time Series Econometrics, Frankfurt, Germany (June 2014); Conference on Recent Developments in Financial Econometrics and Empirical Finance, Essex Centre for Financial Econometrics, Essex, England (June 2014); HEC Montréal-CIRPÉE Applied Financial Time Series Workshop, Montreal, Canada (Feb. 2014); 13th OxMetrics Users Conference, Aarhus, Denmark (Sept. 2013); Annual CIREQ Econometrics Conference, Montreal, Canada (May 2013); HEC Montréal-CIRPÉE Applied Financial Time Series Workshop, Montreal, Canada (Feb. 2013); CREATES Annual Conference, Sandbjerg, Denmark (Aug. 2012); Second CREATES Long Memory Symposium, Aarhus, Denmark (June 2011); Fifth CIREQ Time Series Conference, Montreal, Canada (May 2011); HEC Montréal-CIRPÉE Applied Financial Time Series Workshop, Montreal, Canada (Feb. 2010).
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- 2005 – 2009 Third CIREQ Time Series Conference, Montreal, Canada (May 2009); CREATES Long Memory Symposium, Aarhus, Denmark (June 2007); Summer Econometrics Workshop, Aarhus, Denmark (Aug. 2006); International Conference on Multivariate Modeling in Finance and Risk Management, Centre for Analytical Finance, Sandbjerg Manor, Denmark (June 2006); Nordic Econometric Meeting, Helsinki, Finland (May 2005).
- 2000 – 2004 Aarhus Econometrics Meeting, Svinkløv, Denmark (May 2004); European Winter Meeting of the Econometric Society, Budapest, Hungary (Nov. 2002); International Conference on Market Microstructure and High-Frequency Data in Finance, Centre for Analytical Finance, Sandbjerg Manor, Denmark (Aug. 2001); Annual Meeting of the Centre for Analytical Finance, Sandbjerg Manor, Denmark (Jan. 2001).

Contributed presentations

- 2015 – Annual CESG Conference, Toronto, Canada (Oct. 2017); Fourth IAAE annual conference, Sapporo, Japan (June 2017); NY Camp Econometrics XII, Lake Placid, NY (April 2017); Annual CESG Conference, London, Canada (Oct. 2016); Econometric Society World Congress, Montreal, Canada (Aug. 2015).
- 2010 – 2014 Annual CESG Conference, Waterloo, Canada (Oct. 2013); Annual CESG Conference, Toronto, Canada (Oct. 2011); NBER-NSF Time Series Conference, East Lansing, MI (Sept. 2011); Econometric Society World Congress, Shanghai, China (Aug. 2010).
- 2005 – 2009 NBER-NSF Time Series Conference, Aarhus, Denmark (Sept. 2008); (EC)² Conference, Faro, Portugal (Dec. 2007); Annual CESG Conference, Montreal, Canada (Sept. 2007); Conference in Honour of Paul Newbold, Granger Centre for Time Series Econometrics, Nottingham, England (Sept. 2007); North American Summer Meeting of the Econometric Society, Durham, NC (June 2007); European Meeting of the Econometric Society, Vienna, Austria (Aug. 2006); Econometrics in Rio, Rio de Janeiro, Brazil (July 2006); International Conference on Time Series Econometrics, Finance, and Risk, Perth, Australia (June 2006); North American Summer Meeting of the Econometric Society, Minneapolis, MN (June 2006); Econometric Society World Congress, London, England (Aug. 2005).
- 2000 – 2004 Nordic Econometric Meeting, Bergen, Norway (May 2003); (EC)² Conference, Bologna, Italy (Dec. 2002); Annual Meeting of the Danish Graduate Programme in Economics, Korsør, Denmark (Nov. 2002); European Meeting of the Econometric Society, Venice, Italy (Aug. 2002); Annual Meeting of the Danish Graduate Programme in Economics, Rungstedgaard, Denmark (Nov. 2001); Annual Meeting of the Danish Econometric Society, Sandbjerg Manor, Denmark (May 2000).

Discussant

- 2010 – 2014 Fifth CIREQ Time Series Conference, Montreal, Canada (May 2011).
- 2000 – 2009 Annual Meeting of the Danish Graduate Programme in Economics, Korsør, Denmark (Nov. 2002).

INVITED SEMINARS

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| 2015 – | McGill University (scheduled Nov. 2018); Binghamton University (scheduled Sept. 2018); University of Wisconsin–Madison (April 2018); UCSD (April 2017); Binghamton University (Nov. 2016); University of Southern Denmark, Denmark (June 2016); Nuffield College at University of Oxford, England (June 2016); CREATES/Aarhus University, Denmark (May 2016); Lund University, Sweden (April 2016); University of Copenhagen, Denmark (March 2016). |
| 2010 – 2014 | Université de Montréal, Canada (Nov. 2014); Indiana University–Bloomington (Feb. 2013); Michigan State University (Feb. 2013); Rice University (Oct. 2012); Penn. State University (Oct. 2012); CREATES/Aarhus University, Denmark (May 2012); Cornell University (March 2011); Boston University (April 2010); CREATES/Aarhus University, Denmark (Feb. 2010). |
| 2005 – 2009 | Cornell University (April 2009); HEC Montréal, Canada (April 2008); Queen’s University, Canada (Jan. 2008); Purdue University (Dec. 2007); UC Riverside (Dec. 2007); Cornell University (Nov. 2007); Rutgers University (Oct. 2007); Texas A&M University (Sept. 2007); UCLA (May 2007); Queen’s University, Canada (May 2007); Michigan State University (March 2007); Cornell University Department of Statistical Science (March 2007); University of Wisconsin–Madison (May 2006); Binghamton University (Dec. 2005); Cornell University (Sept. 2005); Queen’s University, Canada (April 2005); Purdue University (March 2005). |
| 2000 – 2004 | Université de Montréal, Canada (Sept. 2004); Cornell University (Sept. 2004); Aarhus University, Denmark (Jan. 2004); Nuffield College at University of Oxford, England (Feb. 2003); Michigan State University (Feb. 2003); Cornell University (Feb. 2003); University of British Columbia, Canada (Jan. 2003); Tilburg University, The Netherlands (Jan. 2003); Aarhus University, Denmark (Jan. 2003); Yale University (April 2002); Yale University (Feb. 2002); Aarhus University, Denmark (Nov. 2001); Aarhus University, Denmark (April 2000). |

TEACHING EXPERIENCE

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| Short PhD courses | “Fractional time series models” at CREATES/Aarhus University (June 24-25, 2013). |
| Queen’s University | Econ. 851: “Econometrics II” (winter 2013–2015, 2017–2019); Econ. 852: “Quantitative Methods” (fall 2008–2011, 2013, 2014); Econ. 95x: “Advanced Topics in Econometrics” (fall 2010, fall 2013, winter 2015, fall 2017, fall 2018); Econ. 853/953: “Applied Econometrics (Time Series Analysis)” (winter 2009). |
| Cornell University | Econ. 320: “Introduction to Econometrics” (fall 2006, fall 2007, spring 2008); Econ. 721: “Time Series Econometrics” (fall 2006, fall 2007); Econ. 327: “Time Series Econometrics” (spring 2004, spring 2005, spring 2006); Econ. 722: “Topics in Time Series Econometrics” (spring 2004, spring 2005, spring 2006); Econ. 333: “Financial Economics” (fall 2003, fall 2004, fall 2005). |
| Aarhus University | Guest lecturer in graduate time series analysis (fall 2001, spring 2003); Teaching assistant for “Statistics 3: Regression Analysis” (spring 2000); Supervisor for “Empirical 2 nd year Project” (spring 2000); Teaching assistant for “Statistics B: Statistics for Business” (fall 2000). |
| LSE | Teaching assistant for “Statistics for Economists” at Dept. of Statistics (spring 1999). |

Aarhus University Teaching assistant for “Statistics 3: Regression Analysis” (spring 1998);
Teaching assistant for “Statistics 2: Statistical Inference” (fall 1997).

PHD STUDENT AND POSTDOC ADVISING

(#: COMMITTEE CHAIR OR CO-CHAIR; YEAR OF DEGREE & FIRST POSITION IN PARENTHESIS)

Queen’s University Maggie E.C. Jones (in progress, expected 2018, University of Victoria, Canada);
#Antoine A. Djogbenou (postdoc 2016–2018, York University, Canada);
Ke Xu (2017, University of Victoria, Canada);
#Sergei S. Shibaev (2017, CitiBank);
#Michal K. Popiel (2017, Analysis Group);
#Lealand Morin (2016, Capital One, then University of Central Florida);
#Rui Gao (2014, Southwestern University of Finance and Economics, China);
#Tian Xie (2013, Wuhan University, China);
#Nina Kuriyama aka Yini Wang (2012, Renmin University, China).

Cornell University Jae-Ho Yun (2009, Bank of Korea);
#Kin-Yip Ho (2008, Swinburne U. of Technology postdoc, then Australian National U.).

ADMINISTRATIVE EXPERIENCE

Queen’s University Quantitative workshop organizer, 2008–2015, 2017–2019;
Appointments committee, 2010–2015, 2017–2018 (chair of modified committee);
Department of Economics headship review and search committee, 2012–2013;
Scarthingmoor Prize committee, 2010 (chair).

Cornell University Graduate admissions committee, 2003–2008;
Econometrics recruitment committee, 2006–2007.