

CURRICULUM VITAE OF PER S. FREDERIKSEN

Name Per Skaarup Frederiksen

Present position(s) Nordic Institutional Sales, Structured Investment Solutions, Nordea Markets - Investment Banking, Nordea Bank. Responsible for sales of equity derivatives, structured products and fund linked products to Scandinavian institutions (pension funds, life and insurance companies, asset managers and Tier 1 banks).

External Associate Professor, Master level “Finance”, Department of Economics, University of Copenhagen.

Citizenship/birth Danish, 26 April 1977.

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RESEARCH AREA Volatility modeling, estimation and testing of fractional integration and cointegration, analysis of long range dependent processes and perturbed fractional processes, mixture of distribution models, risk management, Credit risk.

LINKED-IN <Http://www.linkedin.com/in/perfrederiksen>

EDUCATION

Apr. 2003 - Dec 2005 PhD in financial econometrics, Aarhus School of Business, Department of Marketing and Statistics, advisor Associate Professor Esben Høg. Dissertation “Financial Market Dynamics: Topics in Long Memory Modeling”. Dissertation Committee; Torben G. Andersen (Nathan S. and Mary P. Sharp Distinguished Professor of Finance, Kellogg School of Management, Northwestern University), Asger Lunde (Professor of Applied Statistics, Aarhus University) and Niels Haldrup (Professor of Economics, Aarhus University).

Sept. 2004 - May 2005 Visiting Scholar at Kellogg School of Management, Northwestern University, Department of Finance, advisor Professor Torben G. Andersen (Nathan S. and Mary P. Sharp Distinguished Professor of Finance).

Apr. 2002 - Jan. 2003 Research internship, Department of Information Science, Statistics Group, Aarhus School of Business, advisor Associate Professor Esben Høg.

Sept. 2000 - Jan. 2003 Msc (Cand.merc.) in Finance, Aarhus School of Business.

Sept. 1997 - June 2000 BSc in Business Administration, Aarhus School of Business.

Aug. 1993 - June 1996 High school degree in mathematical science, Struer Gymnasium og HF-kursus.

TEACHING EXPERIENCE AT AARHUS SCHOOL OF BUSINESS

Jan 2006 – Sept. 2006 External lecturer, Diploma level “Statistics”, Department of Marketing and Statistics, Aarhus School of Business.

Sept. 2001 – June 2004 Teaching Assistant, Master level “Quantitative Economic Methods”, Department of Marketing and Statistics, Aarhus School of Business.

Sept. 1999 - June 2003 Teaching Assistant, Bachelor level “Mathematics”, Department of Management Science and Logistics, Aarhus School of Business.

PREVIOUS EMPLOYMENT

Oct. 2006 – Apr. 2010 Head of Structuring and Global Deputy Head, Fund Linked Derivatives, Nordea Markets - Investment Banking, Nordea Bank. Responsible for equity derivatives structuring, fund linked products (fund linked derivatives, fund distribution/marketing and setting up funds) and supporting sales as a sales/products specialist.

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Jan. 2006 – Sept. 2006 Volatility analyst, Jyske Markets – Research, Jyske Bank.
Apr. 2000 – Dec. 2001 Statistician, PLS Rambøll, Aarhus.
Jan. 1998 - Aug. 2000 Technical supporter on business solutions at Hansa A/S, Aarhus.

PERSONAL EXPERIENCES

June 1999 - Jan. 2004 Soccer coach, ASA boldklub, Aarhus.
Aug. 1998 - Aug. 2000 Member of the board of Hansa A/S.
Aug. 1998 - Sept. 1999 Member of the board of the "Association of Younger Danish Business Economists"
(Yngre Civiløkonomer), Aarhus School of Business.

CURRENT PAPERS

VOLATILITY MODELING:

- Finite Sample Accuracy and Choice of Sampling Frequency in Integrated Volatility Estimation (with. M. Ø. Nielsen). *Journal of Empirical Finance*, 2008, 15, 265-268.
- Continuous-Time Models, Realized Volatilities, and Testable Distributional Implications for Daily Stock Returns (with T. G. Andersen, T. Bollerslev and M. Ø. Nielsen). *Journal of Applied Econometrics*, 2010, 25, 233-261.
- The Information Content of Realized Volatility Forecasts (with T. G. Andersen and A. D. Staal).
- A Comment on "Realized Variance and Market Microstructure Noise" by P. Hansen & A. Lunde (JBES Invited Session paper) (with T. G. Andersen, T. Bollerslev and M. Ø. Nielsen). *Journal of Business and Economic Statistics*, 2006, 24, 173-179.

Long-Memory Modeling:

- Finite Sample Comparison of Parametric, Semiparametric, and Wavelet Estimators of Fractional Integration (with. M. Ø. Nielsen). *Econometric Reviews*, 2005, 24, 405-443.
- Local Polynomial Whittle Estimation of Perturbed Fractional Processes (with. M. Ø. Nielsen and F. S. Nielsen). Forthcoming in *Journal of Econometrics*.
- Testing for Long Memory in Potentially Nonstationary Perturbed Fractional Processes (with F. S. Nielsen).
- Bias-Reduced Estimators of Long-Memory Stochastic Volatility (with. M. Ø. Nielsen). *Journal of Financial Econometrics*, 2008, 6, 496-512.
- The Generalized Brownian Motion and its Application in Finance (With E. Høg and Daniel Schiemert).
- A Dynamic Long-Memory Bivariate Mixture Model (with F. S. Nielsen). Work in progress.
- Fully Modified Narrow-Band Least Squares Estimation of Stationary Fractional Cointegration (with M. Ø. Nielsen). Forthcoming in *Econometrics Journal*.

AWARDS

June 2004 Received the Tuborg Foundation's "Business Economics Award, 2004"
(Tuborgfondets Erhvervsøkonomiske Pris 2004). DKK 150,000 (approx. EUR 20,000).
June 2002 Received Jyske Banks Scholarship 2002 (in finance). DKK 25,000 (approx. EUR 3,300).

PROFESSIONAL SERVICE AND AFFILIATIONS

REFEREEING *Journal of Business and Economic Statistics*, *Journal of Applied Econometrics* and *Journal of Futures Markets*.

MEMBERSHIPS The Econometric Society, Nordic Econometric Network, Danish Econometric Society, Centre for Analytical Finance.

Miscellaneous Education and Organizational Ambassador, Aarhus University.
