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**Personal Information**

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**Working Experience**

Principal Economist	Financial Stability, European Insurance and Occupational Pension Authority	2011– present
Principal Economist Senior Economist Economist Analyst	Risk Management, European Central Bank	2001 – 2011
Economist	Cowi Consulting A/S	2000 – 2001
Assistant Professor	Dept of Finance, Aarhus Business School	1998 – 2000

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**Education**

Ph.D., Finance	Aarhus School of Business, Denmark	1998
M.Sc., Finance	Aarhus School of Business, Denmark	1995
BA., Business Adm.	Copenhagen School of Business, Denmark	1993

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**Refereed Publications**

- Nelson-Siegel, Affine and Quadratic Yield Curve Specifications: Which one is better at forecasting? (with R. Vidova-Koleva), ECB working paper series, *Journal of Forecasting*, forthcoming.
- How arbitrage-free is the Nelson-Siegel model? (with L. Coroneo and R. Vidova-Koleva), *Journal of Empirical Finance*, 2011, Vol. 18(3), 393 - 407.
- Long horizon yield curve forecasts: comparison of parametric and semi-parametric approaches (with R. Rebonato), *Applied Financial Economics*, 2008, Vol. 18(20), 1597-1611.
- The yield curve and macro fundamentals in forecasting exchange rates (with M. Koivu and J. Stromberg), *Journal of Financial Forecasting*, 2007, Vol. 1(2), 63-83.
- A new approach to predicting recessions, *Economic Notes*, 2007, Vol. 36, 27-42.
- Evolving yield curves in the real-world measure: a semi-parametric approach, *Journal of Risk*, 2005, Vol. 7(3), 29-61, (with R. Rebonato, S. Mahal, M. Joshi, L.-D. Bucholz).
- Inferring the private information content of trades: a regime switching approach, *Journal*

*of Applied Econometrics*, 2003, Vol. 18, 457-470.

- Estimating the probability of informed trading, *Journal of Financial Research*, 2002, Vol. 25(4), 485-505.
- Regime shifts in the Danish term structure of interest rates, *Empirical Economics*, 2000, 25(1), 1-13, (with T. Engsted).
- Estimation of the effective bid-ask spread on high frequency Danish bond data, *European Journal of Finance*, 1999, 5, 109-122.
- Estimation of the bid/ask spread on Danish stocks, and evaluation of Roll's estimator, *Applied Financial Economics*, 1997, 7, 605-610.

#### Books and contributions to books

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- Portfolio and Risk Management for Central Banks and Sovereign Wealth Funds, Palgrave Macmillan, 2010, (co-editors G. Petre and J. Coche)
- Central Bank Reserves and Sovereign Wealth Management, Palgrave Macmillan, 2009, (co-editors A. Berkelaar and J. Coche).
- Interest Rate Models, Asset Allocation and Quantitative Techniques for Central Banks and Sovereign Wealth Funds, Palgrave Macmillan, 2009, (co-editors A. Berkelaar and J. Coche).
- Risk Management for Central Banks and Other Public Investors, Cambridge University Press, 2008, (Ch. 2: Strategic Asset Allocation for Fixed Income Investors, with M. Koivu and F. Monar).
- Strategic Asset Allocation in Fixed Income Markets: A Matlab Based User's Guide, Wiley, 2008.

#### Dissertations

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- Essays on empirical market microstructure (Ph.D.).
- Estimating the components of the spread on Danish stocks (M.Sc., in Danish).

#### Working Papers

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- Insurance and Banking Interconnectedness in Europe: the Opinion of Equity Markets.
- The Use of Portfolio Credit Risk Models in Central Banks, (with U. Bindseil, H. Van der Hoorn, H. Schwartzlose), ECB Occasional Paper No. 64, July 2007.
- Yield curve prediction for the strategic investor (with C. Bernadell and J. Coche), ECB working paper no 472, April 2005.
- Foreign reserve management subject to a policy objective (with J. Coche, M. Koivu and V. Poikonen), ECB working paper no 624, May 2006.

- A factor risk model with reference returns (with C. Bernadell and J. Coche), ECB working paper no 641, June 2006.
- Trade classification by switching regressions (with C. Tanggaard).
- Reducing the minimum price variation in Finland: evidence of an optimal tick size.
- Trade data, market timing and transaction costs of Danish government bonds, Monthly report of the Copenhagen Stock Exchange (in Danish), 1995, no 283 (with C. Tanggaard).

#### Work in Progress

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- A discrete-time arbitrage free Nelson-Siegel model for nominal and real yield curves (with A. Berkelaar).
- Ensuring positivity when projecting yield curves (with C. Tanggaard, R. Vidova-Koleva and F. Monar).

#### Teaching Experience

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Strategic Asset Allocation	M.Sc. Course, Frankfurt University	2006, 2008, 2009, 2010
Investment Science	B.Sc. Course, University of Aarhus	1999, 2000
Corporate Finance	M.Sc. Course, Aarhus School of Business	1998, 1999, 2000
Corporate Finance	M.Sc. Course, University of Southern Denmark	2000
Quantitative Econometric methods	M.Sc. Course, Aarhus School of Business (teaching assistant)	1995

#### Current Research Interests

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- Applied financial econometrics.
- Modeling and forecasting the joint behavior of macroeconomic variables and the yield curve in single and multi-currency settings.
- Macro factors, financial markets and the soundness of financial intermediaries.
- Early detection of financial fragility in financial markets with links to the real economy.
- Asset and liability modeling for Insurance undertakings and pension plans
- Reserves management, including strategic and tactical asset allocation.

## Presentations

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- Seminar on portfolio optimisation and ALM techniques, Luxembourg, May 2011.
- Seminar on Financial Analysis and Related Tools, London, May 2011.
- MATLAB user seminar, Frankfurt am Main, September 2009, October 2010.
- Central Bank of Peru, planned and presented a three-day course on yield curve modeling and portfolio optimisation, Lima, February 2010
- Central Bank of Brazil and Bank for International Settlements, Risk Conference, Brasilia, September 2009.
- GARP Conference, Kuwait City, Kuwait, June 2009.
- Frankfurt University, Department of Finance, Frankfurt am Main, May 2009.
- Institutional Investors Institutional Investor Americas Sovereign Funds Roundtable, Miami, 2009.
- MATLAB user seminar, Zurich, 2008.
- Bank of Canada, conference on fixed income markets, Ottawa, 2008.
- Central Bank of Egypt, planned and presented a two-day course on Yield Curve Modeling, Cairo, 2008.
- Eastern Finance Association Annual Meeting, Florida, 2008.
- Central Bank of Italy, contributing to a course on “The Econometrics of Asset Allocation”, Rome, 2008.
- World Bank, Workshop on Multi-Asset Class Strategic Asset Allocation, Seoul, 2008.
- CREATES, Aarhus University, Aarhus, 2008.
- ABN Amro, Risk and Capital Management Summit, Cairo, 2008.
- AFFi, French Finance Association International Meeting, Paris, 2007.
- World Bank Workshop on Strategic Asset Allocation, Izmir, 2007.
- MATLAB user seminar, Munich, 2007.
- European Investment Bank, Portfolio Management Conference for Public Institutions, Luxembourg, 2007.
- Marcus Evens conference on credit risk and its integration with market risk, London, 2006.
- Bank for International Settlements, Seminar series on strategic benchmark construction, Basel, 2006.
- Derivatives and Risk Management, Risk Conference, Monaco, 2006.
- The evolution of credit risk, conference at the Bank of Greece, Athens, 2006.
- Society for Non-linear Dynamics and Econometrics, Annual Conference, St. Louis, USA, 2006.
- Finance seminars, University of Pireaus, Athens, 2006.

- Fondo Latinoamericano de Reserves and HSBC, Reserves management conference, Cartagena, 2005.
- Quant Congress Europe, London, 2005.
- Southwestern Finance Association Meeting, Dallas, 2005.
- Fixed Income Workshop, Bank of Canada, Montreal, 2004.
- National Central Bank of Poland, 2003.
- NTU international conference of finance, Taipei, 2000.
- European finance association, Annual meeting, Helsinki, 1999.
- Symposium on microstructure and high frequency data, Paris, 1998.
- European finance association, Annual meeting, Fontainebleau, 1998.
- Symposium on applied statistics, University of Aarhus, 1998.
- Finance seminars, Vanderbilt University, Owen School, Nashville, 1997.
- Symposium on applied statistics, University of Odense, 1996.

#### Other Activities

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- Member of the Danish econometric society.
- Member of a Ph.D. evaluation committee at the Aarhus University for Lasse Bork, 2010.
- Co-organiser of the BIS/World Bank/ECB conference on Strategic Asset Allocation, 2008, 2009, 2010.
- Referee for:  
Journal of Empirical Finance; Spanish Economic Review; Journal of Money, Credit and Banking; Applied Financial Economics; European Journal of Finance; The Working Paper Series at the European Central Bank; Software Practice and Experience.
- Paper Discussions:  
Eastern Finance Association, 2008; Southwestern Finance Association, 2005; European Finance Association 1999; European Finance Association, 1998.
- Visiting Ph.D. student at the Owen School, Vanderbilt University, USA, 1996-1997.