Laurent A.F. Callot

Contact Information

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Expertise

Forcasting, Time-series, Causal analysis, Machine Learning, Statistics, Econometrics, Neural Networks, Macroeconomics, Financial econometrics.

Current Positions

Senior Economist, Amazon Development Center, Berlin. Since June 2016,
January 2019 - present: Intelligent Cloud Control Machine Learning.
June 2016 - January 2019: Supply Chain Optimization Technologies and CoreML.
June 2016 - September 2018: Economist.

Previous Positions

2012-2015 Post-Doctoral Researcher, VU University Amsterdam, Department of Econometrics and OR.
Research Fellow: Tinbergen Institute, the Netherlands.
Junior Fellow: CREATES, Aarhus University, Denmark.

2013-2014 Consultant, Danske Commodities, Aarhus, Denmark. Short term forecasting of electricity demand imbalances.

2009-2012 Doctoral Student, CREATES, Aarhus University, Denmark.

2005-2006 Statistician, SITELESC, Paris, France. Populating and management of a small business data base.

2004-2005 IT technician, Linear Accelerator Laboratory, Paris, France. Hardware quality control and certification.

Education

PhD Economics, **Aarhus University**, September 2012
Thesis title: *Large Panels and High Dimensional VARs.*
Topics: Time-series, high-dimensional statistics, machine learning, macroneconomics.
Advisor: Prof. Niels Haldrup.
Visiting scholar: **Princeton University**.

M.Sc. Economics, **Aarhus University**, August 2009.
Thesis title: *Modelling Exchange rates with Global VARs.*
Advisor: Prof. Niels Haldrup.

B.Sc. Economics, **University Paris X**, 2007.

B.Sc. Mathematics, **University Paris VI**, 2007.
Minor: Computer Science

Publications

All publications are peer-reviewed. The latest version of the every paper with replication files is available on my website (link).

Refereed Publications

Januschowski, Gasthaus, Wang, Rangapuram, Callot: Deep Learning for Forecasting: Current Trends and Challenges, **Foresight: The International Journal of Applied Forecasting, 2018**.

Januschowski, Gasthaus, Wang, Rangapuram, Callot: Deep Learning for Forecasting, **Foresight: The International Journal of Applied Forecasting, 2018**.

Callot, Kock, Medeiros: Estimation and Forecasting of Large Realized Covariance Matrices and Portfolio Choice, **Journal of Applied Econometrics, 2016**.

Callot, Haldrup, Kallestrup-Lamb: Deterministic and stochastic trends in the Lee-Carter mortality model, **Applied Economics Letters, 2016**.

Callot, Caner, Kock, and Riquelme: Sharp threshold detection based on sup-norm error rates in high-dimensional models **Journal of Business & Economic Statistics, 2015**.

Kock and Callot: Oracle Inequalities for High Dimensional Vector Autoregressions. **Journal of Econometrics, 2015**.

Callot and Kristensen: Regularized Estimation of Structural Instability in Factor Models: The US Macroeconomy and the Great Moderation, **Advances in Econometris vol. 35, 2015.**

Callot, Haldrup, and Lamb: Deterministic and stochastic trends in the Lee-Carter mortality model, **Applied Economics Letters, 2015**.

Callot and Kock: Oracle Efficient Estimation and Forecasting with the Adaptive Lasso and the Adaptive Group Lasso in Vector Autoregressions, **Essays in Nonlinear Time Series Econometrics (chapter 10) Oxford University Press, 2014.**

Callot and Paldam: Natural funnel asymmetries. A simulation analysis of the three basic tools of meta analysis, **Research Synthesis Methods, 2011**.

Visiting scholar

2015 Ohio State University, Columbus OH, USA.
2013 PUC Rio, Rio de Janeiro, Brazil.
2011 Princeton University, Princeton, USA.

Invited seminars:

2015 Ohio State University, Columbus OH, USA.
2015 The Tinbergen Institute, Amsterdam, the Netherlands.
2014 Seminar, Maastricht University, the Netherlands.
2012 Seminar, Uppsala University, Sweden.

Languages

French (native), English (fluent), Danish (proficient), Spanish (basic), German (beginner).

IT skills

Python, R, MXNet, Matlab/Octave, Latex, Linux

Teaching Experience

Lecturer

Introductory Econometrics, Spring 2013, 2014, and 2015. VU Amsterdam.
Introduction to programming, August/September 2011. Aarhus University.

Teaching Assistant

Business Mathematics, Spring 2013 and 2014.
Introductory Statistics, Spring 2013 and 2014.
Econometrics, Fall 2010 , Aarhus University.
Advanced Programming in Quantitative Economics, August 2010 , Aarhus University.
Macro 1, Fall 2009 , Aarhus University.

Research Assistant

Assistant to Prof. Martin Paldam, 2008 and 2009.

REFEREEING

International Journal of Forecasting.
Journal of Business & Economic Statistics.
Advances in Econometrics.
Econometric Review.
The Energy Journal.
Computational Statistics.