Stefano Grassi

CV updated to: **April 5, 2017**

Place and Date of Birth: Rome, 25/03/1978
Citizenship: Italian
Affiliation: University of Rome 'Tor Vergata', Dipartimento di Economia e Finanza
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Research Interests

Time series analysis, State space models, Bayesian analysis, Financial econometrics, Empirical finance, Sequential Monte Carlo methods, Spectral analysis, Computational economics, DSGE models.

Current Position

RTD Type B in Business Statistics (Qualification as Associate Professor in Econometrics and Business Statistics) University of Rome 'Tor Vergata', Dipartimento di Economia e Finanza.

Previous Positions

Lecturer in Economics at the School of Economics of the University of Kent, based in Canterbury. From 1 August 2013 to 9 November 2016. Administrative position: Director of Studies for Stage 2.
CREATES International Research Fellows, Aarhus University.
PostDoc researcher at CREATES, Department of Economics and Business, Aarhus University. From January 2011 to July 2013.
Research fellow at University of Perugia, Department of Statistics. From 1 April 2010 to 31 December 2010.

Education

PhD in Econometrics and Empirical Economics **May 2010**

- University of Rome "Tor Vergata" - Faculty of Economics.
- Advisor: Prof. Tommaso Proietti.
- External advisor: Prof. Siem Jan Koopman.
- Title: Topics in Unobserved Component Models.

MSc in Finance **December 2004**

- ISTAO, Ancona.
- Subject: Finance, Econometrics.
- Final mark: 100/100 cum laude.

Laurea-Degree (1st-2nd level) in Economics **July 2003**

- University of Tuscia - Faculty of Economics.
- Subject: Economics
- Final mark: 110/110 cum laude.

Publications

Forecasting with the Standardized Self-Perturbed Kalman Filter, with Nonejad N. and Santucci de Magistris P. *Journal of Applied Econometrics*, forthcoming.

A DataCleaning Augmented Kalman Filter for Robust Estimation of State Space Models with Proietti T. and Marczak M. *Econometrics and Statistics*, forthcoming.

The R package MitISEM: Efficient and Robust Simulation Procedures for Bayesian Inference (2015) with Bãstürk N., Hoogerheide, L., Opschoor A. and van Dijk H. K. *Journal of Statistical Software*, forthcoming.

Parallel Sequential Monte Carlo for Efficient Density Combination: The Deco Matlab Toolbox(2015), with Casarin R., Ravazzolo F. and van Dijk H. K., *Journal of Statistical Software*, Vol. 68. 1-30.

EuroMInd-C: a Disaggregate Monthly Indicator of Economic Activity for the Euro Area and member countries(2015), with Proietti T., Frale C., Marcellino M. and Mazzi G., *International Journal of Forecasting*, Vol 31, 712-738.

Parallelization Experience with Four Canonical Econometric Models using ParMitISEM, with Bãstürk N., Hoogerheide, L. and van Dijk H. K., *Econometrics*, Vol. 4, 1-20.

Stochastic Trends and Seasonality in Economic Time Series: New Evidence from Bayesian Stochastic Model Specification Search(2015), with Proietti T., *Empirical Economics*, Vol. 48, 983-1011.

Its all about volatility (of volatility): Evidence from a two-factor stochastic volatility model(2014), with Santucci de Magistris P., *Journal of Empirical Finance*, Vol. 30, 62-78.

Item Response Models to Measure Corporate Social Responsibility(2014), with Nicolosi M. and Stanghellini E., *Applied Financial Economics*, Vol. 24, 1449-1464.

When Long Memory Meets the Kalman Filter: A Comparative Study(2014), with Santucci de Magistris P., *Computational Statistics and Data Analysis*, Vol. 76, 301-319.

Characterizing Economic Trends by Bayesian Stochastic Model Specification Search(2014), with Proietti T., *Computational Statistics and Data Analysis*, Vol. 71, 359-374.

The Statistical Relation of Sea-level and Temperature Revisited(2013), with Hillebrand E. and Ventosa-Santaulria D., *Dynamics of Atmospheres and Oceans*, Vol. 64, 1-9.

Heterogeneous Computing in Economics: A Simplified Approach(2012), with Dziubinski, M. P., *Computational Economics*, Vol. 43, 485-495.

Bayesian Stochastic Model Specification Search for Seasonal and Calendar Effects, with Proietti T., Economic Time Series: Modeling and Seasonality, edited by William R. Bell, Scott H. Holan and Tucker S. McElroy, Chapman and Hall/CRC Press, March 2012.

Has the Volatility of US Inflation Changed and How?(2010) with Proietti T., *Journal of Time Series Econometrics*, Vol. 2, Issue 1.

Working Papers

Bayesian Dynamic Modeling and Time-varying Combinations of Equity Momentum Strategies with Bãstürk N., Hoogerheide, L. and van Dijk H. R&R in *Journal of Econometrics*.

Fundamental shock selection in DSGE models with Ferroni, F. and Leon-Ledesma M.A. R&R in *Journal of Applied Econometrics*.

Dynamic Predictive Density Combinations for Large Data Sets in Economics and Finance with Casarin R., Ravazzolo F. and van Dijk H. K. R&R *Quantitative Economics.*

Testing for Level Shifts in Fractionally Integrated Processes: a State Space Approach with delle Monache D. and Santucci de Magistris P. Submitted.

Refereeing

Journal of Econometrics, Journal of Applied Econometrics, Oxford Bulletin of Economics and Statistics, Review of Economics and Statistics, Journal of Forecasting, Computational Statistics and Data Analysis, Computational Statistics, Journal of Statistical Software, Studies in Nonlinear Dynamics and Econometrics, Statistical Methods and Application, Empirical Economics, Computational Economics.

Teaching Experience and Award

PGCHE (Postgraduate Certificate in Higher Education) completed in May 2015.
Design and module convenor of EC511 *Quantitative Economics*, January 2014 onward.
Module convenor *Empirical economics.* Aarhus University, Aarhus.
Module convenor *Time series econometrics.* Aarhus University, Aarhus.
Teaching assistant for the course *Advance State Space Models.* Phd in Econometrics. Aarhus University, Aarhus.
Teaching assistant for the course *Introduction to State Space Models.* Master MEI. University of Rome Tor Vergata, Rome.
Teaching assistant for the course *NonStationarity.* Master MEI. University of Rome Tor Vergata, Rome.
Teaching assistant for the course *Introduction to Univariate Time Series.* Master MEEFI. University of Rome Tor Vergata, Rome.
Teaching assistant for the course *Univariate Time Series.* Master MEI. University of Rome Tor Vergata, Rome.
Teaching assistant for the course *Time Series for Financial Markets.* University of Luiss, Guido Carli.
Module convenor *Introduction to Matlab*, University of Tuscia, Viterbo.

Professional Experience

Advisor for Eurostat. Euromind project: *Production of a coincident version of monthly indicators of economic activity for the euro area and Members States.* From April 2010 to December 2012.
Asset Manager and Head programmer for Risk Management office at Banca delle Marche from 23/12/2004 to 31/08/2006. Jesi (Ancona).

Grants and Honours

Winner of NVIDIA Hardware Grant(NVIDIA Corporation), amount received 5,000 pounds. July 2016.
Nominated for Kent Union teaching awards, top lecturer 2015, University of Kent (one of 9 nominees).
PRIN (Progetto di ricerca di interesse nazionale) Grant winner 2012 of the Italian Ministry of Education, University and Research, 506,134 euros. CREATES became a research unit that collaborate, as associated partner, to the project *Modelling and Forecasting Structural Change in Economic and Financial Time Series.*
Research fellow financed by the Swedish Foundation for Strategic Environmental Research (MISTRA) through the Sustainable Investment Research Platform (SIRP).
Phd scholarship in Econometrics and Empirical Economics. University of Rome Tor Vergata, Rome.

Scholarship for Master in Finance at Istao Ancona.

Visiting Positions Free University of Amsterdam, Department of Econometrics January to July 2009. February 2010.
Host: Prof. Siem Jan Koopman
Local Supervisor: Prof. Siem Jan Koopman

Other qualifications Summer School in Econometrics at Bertinoro, with the following topics:

- Empirical Methods for Business Cycle Research, with Gabriel Perez Quiros and Maximo Camacho.
- Theory and Practice of Forecasting with Large Data Sets instructor Anindya Banerjee.

C/C ++ Programmer, IAL Lazio; final mark 30/30.

General Knowledge Language: Italian (native), English (fluent), French (spoken, listening: basic, reading: good).
Operating System: Linux, Windows all versions.
Programming languages: C/C++, C++ AMP, CUDA, Ox, Gauss, Visual Basic, Matlab, Java.
Financial software: DataStream, Reuters, Bloomberg.
Econometric software: EViews, Gretl, Stata, OxMetrics suite, R.
DataBase: MySQL.

Italian (native), English (fluent), French (basic knowledge)