

Roberto Casarin



PERSONAL INFORMATION

Born in Treviso (Italy)
Date 5th March 1975
Nationality Italian
Languages Italian, English, German, French
Status Married, two children

EDUCATION

2004-2007 Ph.D. in Mathematics, University Paris IX Dauphine, France
2000-2003 Ph.D. in Economics, University Ca' Foscari of Venice, Italy
2001-2002 M.Sc. in Applied Mathematics, University Paris IX Dauphine, France
1994-1998 Laurea in Economics, University Ca' Foscari of Venice

FURTHER EDUCATION

2009 Summer School in Probability Theory, University of Tampere, Finland
2002 Summer School in Mathematics, University of Marseille, France
2000 Summer School in Mathematics (SMI), University of Perugia, Italy

CURRENT POSITION

2019- Full Professor of Econometrics, University Ca' Foscari of Venice (**UCF**, in what follow)
2018- Director of the Venice center for Economics and Risk Analytics (VERA), Center of Excellence, UCF
2018- Research Associate at the European Centre for Living Technology (ECLT)
2016- Director of the International Master in Economics and Finance (IMEF), UCF
2015- Research Associate at Research Institute for Complexity, UCF
2001- Research Associate and Member of the Scientific Committee, GRETA

PAST POSITIONS

2015-2019 Associate Professor of Econometrics, University Ca' Foscari of Venice
2010-2015 Assistant Professor (Econometrics, SECS-P/05-13/A5), UCF
2006-2010 Assistant Professor (Econometrics, SECS-P/05), University of Brescia
2003-2007 Research Assistant (Applied Mathematics), CEREMADE, CNRS-Paris IX Dauphine, France
2005-2006 Research Assistant, University of Brescia
2005-2005 Research Assistant, University of Padova
1999-2000 Research Assistant, GRETA, Venice

TEACHING

PHD

2019-2021 Advanced Econometrics (30h), PhD in Economics, UCF.
2015-2021 Econometrics (30h), PhD in Economics, UCF.
2014-2015 Bayesian Statistics and Econometrics (15h), PhD in Economics, UCF.
2012-2021 Bayesian Econometrics (20h), CIdE PhD Summer School, Bertinoro/Perugia
2013 Bayesian Stochastic Volatility Models (6h), PhD in Statistics, University Roma Tre
2008 Statistics for Linguistic, PhD in Linguistic (15h), UCF

MSC

2015-2019 Networks in Social Sciences and Economics (30h), DAIS, UCF
2012-2021 Nonlinear Models and Financial Econometrics (30h), QEM, UCF
2010-2021 Risk process and Insurance (6h), IMEF, UCF
2010-2021 Numerical Methods for Option Pricing (6h), IMEF, UCF
2015-2016 Risk Measurement (30h), UCF
2013-2015 Applied Econometrics (30h), UCF
2012-2014 Econometrics (35h), QEM, UCF
2004-2006 Stochastic Calculus (6h), IMEF, UCF

UNDERGRADUATE

2015-2020 Introduction to Econometrics (30h), UCF
2008-2010 Applied Econometrics II (30h), Università di Brescia
2008-2010 Applied Econometrics I (30h), Università di Brescia
2009-2009 Financial Econometrics (30h), Università di Brescia

2009 Financial Econometrics (30h), Università di Brescia
 2005-2009 Finance of Insurance and Social Security (30h), Università di Brescia
 2007-2009 Currency Risk and Capital Markets (30h), Università di Brescia
 2007 Numerical Methods in Econometrics and Finance (20h), Università di Brescia
 2006-2008 Forecasting Methods I (30h), UCF

OTHER

2001 Performance Evaluation and Attribution, Arthur Andersen, Milano
 2001-2002 Stochastic Process Simulation Methods, Arthur Andersen, Milano
 2000 Monte Carlo Simulation Methods, Arthur Andersen, Milano
 2000 Portfolio Theory and Asset Allocation, Arthur Andersen, Milano

RESEARCH ACTIVITIES

CONFERENCE ORGANIZATION

2018 Workshop on Advances in Bayesian Modelling, Venice, July 2018.
 2017 First Italian-French Statistics Seminar (Scientific and Organizing Committees), Venice, June 2017.
 2016 European Seminars of Bayesian Econometrics ESOBE meeting, October 2016, Venice (Scientific and Organizing Committees).
 2016 ICEEE Meeting (Scientific Committee).
 2016 CFE Meeting (Scientific Committee).
 2011-2018 Bayesian Nonlinear Econometrics session, CSDA-CFE meeting.
 2015 2nd Days of Econometrics for Finance International Conference (JEF'2015), Mohammed V University, Rabat, Morocco, 18 - 19 December 2015.
 2013 Workshop on New Tools in Macro-Econometrics, UCF
 2011 Workshop on Probability Models in Econometrics, UCF
 2011 Workshop on Density Forecasting, UCF
 2009 PhD Students Workshop Financial Econometrics and Quantitative Finance, Università di Brescia
 2008 Third Japanese-European Bayesian Econometrics and Statistics Meeting, Università di Brescia
 2007 Workshop on Non-linear Models for Business Cycle Analysis, Ecole Normal Superior-Cachan, Parigi

JOURNAL EDITORIAL BOARD

2019- Bayesian Analysis (Associate Editor)
 2018- Econometrics (Associate Editor)
 2015 Econometrics (Guest Editor) Special Issue "Computational Complexity in Bayesian Analysis"

REFEREING JOURNALS

Journal of the American Statistical Association, Journal of Business and Economic Statistics, Journal of Econometrics, Annals of Applied Statistics, Journal of Applied Econometrics, Journal of Statistical Planning and Inference, Signal Processing Letters, Journal of Economics Dynamics and Control, The European Journal of Finance, Research in Economics, Computational Statistics and Data Analysis, Journal of Forecasting, Journal of Banking and Finance

REFEREING PROCEEDINGS

2010-2014 International Conference on Artificial Intelligence and Statistics, AISTAT
 2014 Neural Information Processing Systems, NIPS

REFEREING GRANT PROJECTS

2008-2009 Social Sciences and Humanities Research Council (SSHRC) of Canada, for the Standard Research Grants Competition

VISITING

2008-2009 Department of Mathematics, University of Bristol
 2009 Department of Math., University Paris Sud
 2002-2003 CEREMADE, Department of Mathematics University Paris Dauphine

PHD STUDENT SUPERVISION

2013-2014 Anthony Osuntuyi, "*Bayesian Markov-switching GARCH*",
 PhD Completed in January 2014 (co-supervised with Monica Billio).
 Current Position: Lecturer, Dep. of Mathematics, Ile-Ife University, Nigeria.
 2012-2015 Daniel Felix Ahelegbey, "*Bayesian Graphical Models*",
 PhD Completed in June 2015 (co-supervised with Monica Billio).
 Current Position: Lecturer, University of Pavia.
 2013-2016 Komla Mawulom Agudze, "*Panel Markov-Switching Models*",
 PhD Completed in June 2016 (co-supervised with Monica Billio).
 Current Position: World Bank, Washington.
 2014-2017 Luca Rossini, "*Bayesian nonparametric models*",
 PhD Completed in February 2017 (co-supervised with Monica Billio).

Current Position: Lecturer, Dep. of Mathematics, Queen Mary University of London.

2014-2017 Silvia del Rio, "*Uncertainty and macroeconomic models*",
PhD Completed in June 2017 (co-supervised with Giovanni Caggiano).

2015-2018 Giovanna Notarnicola, "*Microeconometrics and Uncertainty*",
PhD Completed in July 2018 (co-supervised with Agar Brugiavini).
Current Position: Data scientist, AVIS, London.

2015-2018 Matteo Iacopini, "*Tensor calculus in econometrics*",
PhD Completed in July 2018 (co-supervised with Monica Billio e Dominique Guegan).
Current Position: Marie-Curie Fellow, University of Amsterdam.

2018-2022 Giulia Carallo, "*Generalized Poisson Processes*",
Expected completion year 2022 (co-supervised with Monica Billio).

2020-2024 Ovielt Baltodano, "*Stochastic Block Models*",
Expected completion year 2024 (co-supervised with Pietro Dindo).

2021-2025 Andrea Trovato, "Markov switching models and portfolio volatility protection"
Expected completion year 2025 (co-supervised with Monica Billio).

2021-2025 Giovanni Pianon, "ESG econometric modelling"
Expected completion year 2025 (co-supervised with Monica Billio).

2021-2025 Antonio Peruzzi, "Social network econometric modelling"
Expected completion year 2025 (co-supervised with Monica Billio).

PHD COMMITTEE

2019 Fabio Franco, PhD in Econometrics, University Roma Tor Vergata.

2018 Francesco Corsello, PhD in Economics, Bocconi University.

2018 Valerio Nispi, PhD in Economics, Bocconi University.

2018 Jacopo Stacciolo, PhD in Economics, Scuola Superiore Sant'Anna, Pisa.

2018 Carlo Santagiustina, PhD in Economics, Ca' Foscari University of Venice.

2016 Hajar Nasrazadani, PhD in Statistics, Universitat Politecnica de Catalunya.

2015 Audrone Virbikaite, PhD in Economics and Quantitative Methods, University Carlos III of Madrid

2014 Andrea Pierini, PhD in Economics and Quantitative Methods, University Roma Tre

SCIENTIFIC MEMBERSHIPS

2019- European Seminar of Bayesian Econometrics (ESOB, Board member)

2011-2018 Italian Statistics Society (SIS)

2013-2016 Italian Econometric Society (SIE)

2015-2019 International Society for Bayesian Analysis (ISBA)

2013-2016 Euro Area Business Cycle Network (EABCN)

2016-2016 European Network for Business and Industrial Statistics (ENBIS)

RESEARCH AND GRANTS PROJECTS

2018-2019 Grant "EeDaPP Energy efficiency Data Protocol and Portal", H2020 g.a. No 784979 (researcher)

2017-2018 Grant "EeMAP Energy efficient Mortgages Action Plan", H2020 g.a. No 746205 (researcher)

2018 Grant Visiting Professor by the Università Italo Francese 2017.

2017 Grant Workshop organization by Università Italo Francese 2017.

2016-2017 Project "Methodological support financial cycles", EUROSTAT, Tender No ESTAT/B/2013/001, 2013/S 101-172114
Lot 1: Methodological support (principal investigator, and joint supervision with M. Billio)

2016-2016 Project "Using text mining methods on newspapers and social networks to construct sentiment indicators",
EUROSTAT, Tender No ESTAT/C/2013/010 (principal investigator and supervisor)

2014-2016 Grant "Systemic Risk", Institut Europlace de Finance, (researcher)

2013-2016 Grant "SYRTO-SYstemic Risk TOMography: Signals, Measurements, Transmission Channels, and Policy
Interventions", (researcher)

2012-2013 Grant, "Modelli statistici multivariati per la valutazione dei rischi", Italian National Research Council (PRIN),
(researcher)

2012-2013 Post-doc grant, "Bayesian Forecasting Methods in Macroeconomics" University Ca' Foscari, (supervisor)

2010-2011 Grant "Advanced statistical and econometric techniques for PEEIS Transmission of shocks and cyclical fluctuations
in the Euro Area, member states and main economic partners", EUROSTAT, (principal investigator and supervisor)

2011 Post-doc grant, "Markov-switching GARCH models", University of Brescia, (supervisor)

2009 Research fellowship, "State Matrix Kalman Filtering", GRETA, (supervisor)

2005 Grant, Italian National Research Council (PRIN), "Contagion and interdependence between financial markets"
(researcher)

SEMINARS AND MEETING PRESENTATIONS

A Bayesian Compositional Model for Large Density Combination in Finance

Dec 2020 EC^2 Meeting on High dimensional modeling in time series, Paris (remote conference)

A Bayesian Generalized Poisson Model for Cyber Risk Analysis

Sep 2020 Mathematical and Statistical Methods for Actuarial Sciences and Finance, Venice (remote conference)

Dec 2020 EC^2 Meeting on High dimensional modeling in time series, Paris (remote conference)

Jun 2019	<i>A Bayesian Approach for Inference on Probabilistic Surveys</i> Bayesian Nonparametrics Meeting, Oxford (invited)
	<i>Bayesian Dynamic Tensor Regression</i>
Dec 2020	Learning Tools and Applied Quantitative Methods for Decision Making, Bozen (invited)
Sep 2020	Complexity Meets Finance Meeting, Remote Conference, Rome (invited)
Dec 2018	CSDA-CFE Meeting, Pisa
Oct 2018	High Dimensional Small Data Workshop, ECLT-University Ca' Foscari, Venice
Sep 2018	UMI-SIMAI-PTM Joint Meeting, University of Wroclaw, Wroclaw
Apr 2018	MAF, University of Madrid Carlos III, Madrid
	<i>Bayesian Markov switching tensor regression for time-varying networks</i>
Jun 2018	Annual Meeting of the Statistical Society of Canada, Montreal (invited)
Jun 2018	12th Annual RCEA Bayesian Workshop, Rimini
Dec 2017	CSDA-CFE Meeting, London
	<i>Smile at errors: A discrete-time stochastic volatility framework for pricing options with realized measures</i>
Set 2016	Free University of Bozen, Bozen (invited)
	<i>Modeling Contagion and Systemic Risk</i>
Mar 2017	Higher School of Economics, Moscow (invited)
Jun 2016	CORE, UCL, Louvain-la-Neuve (invited)
Jul 2015	IFCS Meeting, Bologna
May 2015	2015 Workshop on High-Dimensional Time Series, IAS, Wien
Mar 2015	SNDE Meeting, BI Norwegian Business School, Oslo
	<i>Bayesian Nonparametric Sparse VAR Model</i>
May 2017	Big Data in Dynamic Predictive Econometric Modeling, University of Pennsylvania
Jun 2016	SIS Meeting, Florence
	<i>Markov Switching GARCH models for Bayesian Hedging on Energy Futures Market</i>
Aug 2016	ESEM Meeting, Geneve
	<i>Dynamic Model Averaging for Quantile Regression</i>
Jun 2016	Scientific Meeting of the Italian Statistical Society, Salerno
May 2014	University of Glasgow, Glasgow (invited)
	<i>A Bayesian Approach for Inference on Probabilistic Surveys</i>
Oct 2016	ESOB Meeting, Venice
	<i>Growth-cycle phases in China's provinces: A Bayesian panel Markov-switching approach</i>
May 2016	7th Rimini Bayesian Econometrics Workshop, Rimini
	<i>A Bayesian Time-varying Approach to Risk Neutral Density Estimation</i>
Dec 2015	CSDA-CFE Meeting, London
	<i>Multi-country Panel Markov-switching Unrestricted MIDAS</i>
Dec 2015	CSDA-CFE Meeting, London
	<i>Parallel computing and stochastic simulation with MATLAB</i>
Jul 2015	Department of Environmental Sciences, Informatics and Statistics, Venice (invited)
	<i>Bayesian nonparametric combination and calibration of predictive distributions</i>
Nov 2015	University Cattolica del Sacro Cuore, Milan (invited)
Apr 2015	European Center for Living Technologies, Venice (invited)
Feb 2015	Universidad Carlos III de Madrid, Madrid (invited)
	<i>Bayesian nonparametric combination and calibration</i>
Mar 2014	CORE Universite Catolique de Louvain, (invited)
Jan 2014	Wien University, Dep. Math., (invited)
	<i>Parallel Sequential Monte Carlo for Efficient Density Combination</i>
Jun 2013	7th Rimini Bayesian Econometrics Workshop
	<i>A Bayesian Markov-switching Stochastic Correlation Model</i>
Jun 2013	SIS meeting on Advances in Latent Variables, Brescia
Aug 2013	ESOB Meeting, Oslo (poster)
	<i>A Bayesian panel Markov-switching VAR model</i>
Aug 2013	ESOB Meeting, Oslo (poster)
	<i>Beta Product dependent Pitman-Yor Processes for Bayesian Inference</i>
Feb 2014	IMS-ISBA Meeting MCMSki, Chamonix
Dec 2013	CSDA-CFE Meeting, London
	<i>Beta Product Poisson-Dirichlet Processes</i>
Dec 2012	CSDA-CFE Meeting, Oviedo
Nov 2011	Department of Statistics, University of Trieste (invited)

	<i>Slice Sampling Vectors of Beta Product Poisson-Dirichlet Processes</i>
Jun 2011	ISBA Meeting on Bayesian Learning, Yetepee University, Istanbul
	<i>A Bayesian Approach to Forecasting Value-at-Risk of VIX Futures</i>
Jun 2011	International Conference on Risk Modeling and Management , Madrid
	<i>Combining Turning Point Forecasts</i>
Jun 2011	31st International Symposium of Forecasting, Prague
	<i>Interacting Multiple-Try Algorithm</i>
Mar 2011	Dep. of Statistics, University of Pavia (invited)
Jun 2011	Dep. of Statistics, University of Madrid III (invited)
Jun 2011	ASMDA Meeting, University La Sapienza, Rome
	<i>Bayesian Model Selection for Beta Autoregressive Processes</i>
Jun 2011	ISBA Meeting on Bayesian Learning, Yetepee University, Istanbul
May 2011	Dep. of Statistics, University of Bologna (invited)
Nov 2010	Norges Bank, Oslo, (invited)
	<i>Combining Predictive Densities using Bayesian Filtering</i>
Jul 2011	NBER Summer Institute, Boston
Jan 2011	4th ICEEE meeting, Pisa
Nov 2010	The European Seminar on Bayesian Econometrics, Rotterdam
Dec 2010	4th CSDA CFE Meeting, London
Oct 2010	6th Eurostat Colloquium, Luxembourg
	<i>Markov-switching Stochastic-Correlation Models</i>
Jun 2011	International Conference on Risk Modeling and Management, Madrid
	<i>Discussion on: Forecast Accuracy and Economic Gains from Bayesian Model Averaging using Time Varying Weights (by Hoogerheide, L. and Kleijn, R. and Ravazzolo, F. and Van Dijk, H.K. and Verbeek, M.)</i>
Jan 2010	2nd Meeting in memory of Carlo Giannini, Bank of Italy
	<i>Sequential Monte Carlo for complex sampling problems</i>
Mar 2009	EPSRC Symposium Workshop on MCMC, Mathematics Institute, Warwick
	<i>Matrix-State Particle Filter for Wishart Stochastic Volatility</i>
Jan 2009	3rd ICEEE meeting, Italy
	<i>Discussion on: Approximate Bayesian inference for latent Gaussian models by using integrated nested Laplace approximations by H. Rue, S. Martino, and N. Chopin</i>
Oct 2008	Royal Statistical Society, Ordinary Meeting, London
	<i>Self-avoiding Sequential Monte Carlo Samplers</i>
Jun 2008	Computational Economics Meeting, Paris
Jan 2008	Adap'ski 2008, a satellite meeting to MCMC'ski Bormio, Italy
	<i>Identifying Business Cycle Turning Points with Sequential Monte Carlo Methods</i>
Sep 2008	5th Colloquium on Modern Tools for Business Cycle Analysis, LU
Jun 2008	Workshop on Emerging Methods in Bayesian Econometrics, Rotterdam (invited)
Jun 2008	First Workshop of the ERCIM Working Group on Comp.& Stat., Neuchatel Switzerland
Jun 2006	26th International Symposium on Forecasting, Santander Spain
	<i>Matrix-State Particle Filter for Wishart Stochastic Volatility</i>
Nov 2007	University of Bolzano (invited)
Jun 2007	Convegno intermedio annuale SIS, "Rischio e Previsione", Venezia
	<i>Sequential Monte Carlo and Stochastic Volatility Models</i>
Jun 2007	CSDA-CFE Meeting, Limassol, Cyprus
Feb 2006	MMF Seminars, University of Brescia, Italy
	<i>Inference on Diffusion Processes by Population Monte Carlo method</i>
Apr 2005	Group de Travail en Finance-Stat, CREST-INSEE, Paris
Jan 2005	MCMC'Ski Meeting, Bormio, Italy
Sep 2005	Young Statistician Meeting, University Trinity College, Dublin
Sep 2005	Premieres rencontres des jeunes statisticiens Aussois
May 2005	European Working Group on Financial Modeling, University of Brescia
	<i>Bayesian Inference for Stochastic Volatility Models</i>
May 2004	Forecasting Financial Markets, Paris
	<i>Bayesian inference in dynamic models with latent factors</i>
Jun 2004	ISBA Meeting, Valparaiso, Chile
Oct 2003	Colloquium on modern tools for business cycle analysis, Luxembourg (invited)
	<i>Bayesian Inference for Generalised Markov Switching Stochastic Volatility Models</i>
Jun 2003	Workshop on Objective Bayesian Methodology, CNRS, Aussois
	<i>Bayesian Inference for Mixture of Stable Distributions</i>

Apr 2003 Young Statistician Meeting, Cambridge
Extreme returns in a shortfall risk framework

May 2002 Forecasting Financial Markets, London
Italian Equity Funds: Efficiency and Performance Persistence

Jun 2001 European Financial Management Association (EFMA), Lugano
Investment Styles in the European Equity Market

May 1999 Forecasting Financial Markets, London

TEACHING AND RESEARCH AT INTERNATIONAL INSTITUTIONS

Jun 2016 Advanced Time Series Analysis, EUROSTAT, Luxemburg

Aug 2013 Sequential Monte Carlo methods, Norges Bank, Oslo, Norway

Apr 2007 Inference on Business Cycle and Stock Market Volatility: A Particle Filter Approach CREST, Option Formation par la Recherche Course, Paris

FELLOWSHIPS AND AWARD

2004 Società Italiana di Economia (SIE) prize for the best PhD thesis in Econometrics 2004

2000-2003 UCF, Italia: Borsa di Dottorato

FUND RASING

2018 Grant Visiting Professor dell'Università Italo Francese 2017.

2017 Grant Workshop organization dell'Università Italo Francese 2017.

2016-2016 Grant "Financial Cycles", EUROSTAT, (principal investigator and supervisor)

2016-2016 Grant "Text Mining", EUROSTAT, (principal investigator)

2013-2016 Grant "SYRTO-SYstemic Risk TOMography: Signals, Measurements, Transmission Channels, and Policy Interventions", (researcher)

2012-2013 Grant, "Modelli statistici multivariati per la valutazione dei rischi", Italian National Research Council (PRIN), (researcher)

2010-2011 Grant "Advanced statistical and econometric techniques for PEEIS Transmission of shocks and cyclical fluctuations in the Euro Area, member states and main economic partners", EUROSTAT Eurostat's Invitation to Tender No 2009/S 107-153951, (principal investigator and supervisor)

ACADEMIC DUTIES

2018-2022 Director of the Venice center for Economics and Risk Analytics (VERA), Center of Excellence

2016-2022 Director of the International Master in Economics and Finance (IMEF), UCF

2017-2022 Coordinator of the Department Erasmus Committee, Department of Economics, UCF

2015- 2022 Computer Cluster Management Committee (SCSCF), UCF

2017- 2022 University Infrastructure Committee (CSA), UCF

2017- 2019 Department Student-Professor Joint Committee, Department of Economics, UCF

2012-2019 PhD Faculty and Board, Department of Economics, UCF

2014-2019 Research Assessment Committee, Department of Economics, UCF

2014-2017 Seminar Organizing Committee, Department of Economics, UCF

2012-2017 Faini's and Cazzavillan's prize committee, Department of Economics, UCF

2007-2010 Elective member, Faculty of Economics, University of Brescia

PUBLICATIONS

JOURNAL ARTICLES

- [1] Agudze, K. M., Billio, M., Casarin, R., Ravazzolo, F. (2021). Markov Switching Panel with Network Interaction Effects, **Journal of Econometrics**, forthcoming.
- [2] Billio, M., Casarin, R., Costola, M., Iacopini, M. (2021). A matrix-variate t model for networks, **Frontiers in Artificial Intelligence**, section Artificial Intelligence in Finance, forthcoming.
- [3] Bassetti, F., Casarin, R., Rossini, L. (2020). Hierarchical Species Sampling Models, **Bayesian Analysis**, 15(3), 809-838.
- [4] Bormetti, G., Casarin, R., Corsi, F. and Livieri, G. (2020). A stochastic volatility model with realized measures for option pricing, **Journal of Business and Economic Statistics**, 38(4), 856-871.
- [5] Casarin, R., Camargo, J.E., Molina, G., Ter Horst, E. (2020). A framework for information synthesis into sentiment indicators using text mining methods, **Communications in Statistics (Theory and Methods)**, forthcoming.
- [6] Casarin, R., Corradin, F., Ravazzolo, F. and Sartore, D. (2020). A scoring rule for factor and autoregressive models under misspecification, **Advances in Decision Sciences**, 24(2), 1-37.
- [7] Casarin, R., Iacopini, M., German, M., Ter Horst, E., Espinasa, R., Sucre, C. and Rigobon, R. (2020). Multilayer network analysis of oil linkages, **Econometrics Journal**, 23(2), 269–296.
- [8] Casarin, R., Correa, J. C., Camargo, J. E., Dakduk, S., German, M. and Ter Horst, E. (2019). What makes a tweet be retweeted? A Bayesian Trigram Analysis of Tweet Propagation during the 2015 Colombian Political Campaign, **Journal of Information Science**, forthcoming.
- [9] Billio, M., Casarin, R., Rossini, L. (2019). Bayesian Nonparametric Sparse VAR Models, **Journal of Econometrics**, 212(1), 97-115.

- [10] Bianchi, D., Billio, M., Casarin, R., Guidolin, M. (2019). Modeling Systemic Risk with Markov Switching Graphical SUR Models, **Journal of Econometrics**, 210(1),97-115.
- [11] Billio, M., Casarin, R., Costola, M., Frattarolo, L. (2019). Opinion Dynamics and Disagreements on Financial Networks, **Advances in Decision Sciences**, 23(4), 1-27.
- [12] Casarin, R., Michele, C. (2019). Structural changes in large economic datasets: A nonparametric homogeneity test, **Economics Letters**, 176, 55-59.
- [13] Casarin, R., Molina, G., Ter Horst, E. (2019). A Bayesian Time-Varying Approach to Risk Neutral Density Estimation, **Journal of the Royal Statistical Society, Series A**, 182(1),165-195.
- [14] Bassetti, F., Casarin, R., Ravazzolo, F. (2018). Bayesian Nonparametric Calibration and Combination of Predictive Distributions, **Journal of the American Statistical Association**, 113(522), 675-685.
- [15] Casarin, R., Foroni, C., Marcellino, M., Ravazzolo, F. (2018). Economic Uncertainty Through the Lenses of a Mixed-Frequency Bayesian Panel Markov Switching Model, **Annals of Applied Statistics**, 12(4), 2559-2586.
- [16] Casarin, R., Sartore, D. and Tronzano, M. (2018). A Bayesian Markov-switching correlation model for contagion analysis on exchange rate markets, **Journal of Business and Economic Statistics**, 36(1), 101-114.
- [17] Martino, L., Casarin, R., Leisen, F., Luengo, D. (2018). Adaptive Independent Sticky MCMC algorithms, **EURASIP Journal on Advances in Signal Processing**, 5, 1-28.
- [18] Racca, P., Casarin, R., Dondio, P., Squazzoni, F. (2018). Relating group size and posting activity of an online community of financial investors: regularities and seasonal patterns, **Physica A: Statistical Mechanics and its Applications**, 493, 458-466.
- [19] Billio, M., Casarin, R., Osuntuy A. (2018). Markov Switching GARCH models for Bayesian Hedging on Energy Futures Markets, **Energy Economics**, 70, 545-562.
- [20] Billio, M., Casarin, R., Ravazzolo, F. and van Dijk, H.K. (2016). Interconnections between Eurozone and US booms and busts using a Bayesian Panel Markov-Switching VAR model, **Journal of Applied Econometrics**, 31(7), 1352-1370.
- [21] Ahelegbey D. F., Billio, M., Casarin, R. (2016). Bayesian Graphical Models for Structural Vector Autoregressive Processes, **Journal of Applied Econometrics**, 31(2), 357-386.
- [22] Racca, P., Casarin, R., Dondio, P. and Squazzoni, F. (2016). Resilience of an online financial community to market uncertainty shocks during the recent financial crisis, **Journal of Computational Science**, 16, 190-199.
- [23] Billio, M., Casarin, R., Osuntuy A. (2016). Efficient Gibbs Sampling for Markov Switching GARCH Models, **Computational Statistics and Data Analysis**, 100, 37-57.
- [24] Ahelegbey D. F., Billio, M., Casarin, R. (2016). Sparse Graphical Multivariate Autoregression: A Bayesian approach, **Annals of Economics and Statistics**, 123/124, 1-30.
- [25] Casarin, R., Craiu, R. and Leisen, F. (2016). Embarrassingly Parallel Sequential Markov-chain Monte Carlo for Large Sets of Time Series, **Statistics and Its Interface**, 9(4), 497-508.
- [26] Casarin, R., Mantoan, G., Ravazzolo, F. (2016). Bayesian Calibration of Generalized Pools of Predictive Distributions, **Econometrics**, 4(1), 1-17.
- [27] Basturk, N., Casarin, R., Ravazzolo, F. and Van Dijk, H.K. (2016). Computational Complexity and Parallelization in Bayesian Econometric Analysis, **Econometrics**, 4(1), 1-9.
- [28] Billio, M., Casarin, R., Costola, M., Pasqualini, A. (2016). An entropy-based early warning indicator for systemic risk, **Journal of International Financial Markets, Institutions and Money**, 45, 42-59.
- [29] Casarin, R., Leisen, F., Molina, G., Ter Horst, E. (2015). Beta Markov Random Field Calibration of the Term Structure of Implied Risk Neutral Densities, **Bayesian Analysis**, 10(4), 791-819.
- [30] Casnici, N., Dondio, P., Casarin, R., Squazzoni, F. (2015). Decrypting financial markets through e-joint attention efforts: On-line adaptive networks of investors in periods of market uncertainty, **PLOS One**, 10(9), 1-15.
- [31] Casarin, R., Grassi, S., Ravazzolo, F. and van Dijk, H.K. (2015). Parallel Sequential Monte Carlo for Efficient Density Combination: The Deco Matlab Toolbox, **Journal of Statistical Software**, 69, 1-30.
- [32] Casnici, N., Dondio, P., Casarin, R., Squazzoni, F. (2015). Back to basics! The educational gap of online investors and the conundrum of virtual communities. **Journal of Financial Management, Markets and Institutions**, 3, 51-68.
- [33] Bassetti, F., Casarin, R., and Leisen, F. (2014), Pitman-Yor Process Prior for Bayesian Inference, **Journal of Econometrics**, 180, 49-72.
- [34] Billio, M., Casarin, R., Ravazzolo, F., Van Dijk, H. (2013). Time-varying Combinations of Predictive Densities using Nonlinear Filtering, **Journal of Econometrics**, 177(2), 213-232.
- [35] Casarin, R. and Squazzoni, F. (2013). Being on the field when the game is still under way. The financial press and stock markets in times of crisis, **PLOS One**, 8(7), 1-14.
- [36] Casarin, R., Leisen, F., Craiu, R. (2013). Interacting Multiple Try Algorithms with Different Proposal Distributions, **Statistics and Computing**, 23(2), 185-200.
- [37] Casarin, R., Chang C.-L., Jimenez-Martin, J.A., McAleer, M., Perez Amaral, T.,(2013). Risk Management of Risk Under the Basel Accord: A Bayesian Approach to Forecasting Value-at-Risk of VIX Futures, **Mathematics and Computer in Simulation**, 94, 183-204.
- [38] Billio, M., Casarin, R., Ravazzolo, F. and van Dijk, H.K. (2012). Combination Schemes for Turning Point Predictions, **Quarterly Review of Economics and Finance**, 52, 402-412.
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FUTHER INFORMATION

RESEARCH IMPACT

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MATHSCI	Number of articles 13
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SSRN	Author Rank 5,527 out of 411,515, Number of Document 46, Total Download 8236, Total Citations 114

WEB

PERSONAL	https://sites.google.com/view/robertocasarin
GOOGLE	https://scholar.google.it/citations?user=5bEU2N4AAAAJ&hl=it
ORCID	https://orcid.org/0000-0003-1746-9190
SCOPUS	https://www.scopus.com/authid/detail.uri?authorId=8976184700
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ARXIV	https://arxiv.org/search/?searchtype=author&query=Casarin%2C+R
MATHGEN	https://www.genealogy.math.ndsu.nodak.edu/id.php?id=120609

NATIONAL SCIENTIFIC EVALUATION

2013-2019	Associate professor in Statistics for Economics (Statistica Economica, SSD SECSS/03)
2013-2019	Associate professor in Statistics (Statistica, SSD SECS-S/01)
2013-2019	Associate professor in Econometrics (Econometria, SSD SECS-P/05)
2017-2023	Full professor in Econometrics (Econometria, SSD SECS-P/05)

RESEARCH INTERESTS

Methods	Bayesian Inference (Prior distributions, Semi-parametric and Nonparametric inference, Posterior Consistency, Model Averaging, Model Selection); Numerical methods (Monte Carlo, Markov Chain Monte Carlo, Population Monte Carlo, Sequential Monte Carlo); Random Graphs (Graph Extraction Methods).
Models	Dynamic Latent Factor, Stochastic Volatility, Markov-Switching, Dirichlet Processes, Diffusion Processes.
Macro	Business cycle analysis, Turning Point Detection, Exchange Rate.
Finance	Contagion, Hedging, Performance Evaluation, Risk Measurement, Systemic Risk, Volatility.

Venice, 14th April 2021