

Curriculum



Nome Name:	Monica
Cognome Surname:	BILLIO

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Scopus Author ID:	55904339600
WOS Author ID:	J-8216-2015
Sito WEB WEB site:	http://www.unive.it/persone/billio

POSIZIONE PROFESSIONALE ATTUALE / CURRENT PROFESSIONAL POSITION:

Posizione attuale Current position:	In servizio
Qualifica Qualification:	Professore Ordinario
Ateneo/Ente/Azienda University/Institution/Company:	Università "Ca' Foscari" VENEZIA
Nazione Ateneo/Ente/Azienda University/Institution/Company Country:	ITA
Anno inizio Start Year:	2006
Anno fine End Year:	n.d.

PRECEDENTI ESPERIENZE LAVORATIVE (ULTIMI 10 ANNI) / PREVIOUS WORK EXPERIENCE (LAST 10 YEARS):

LINGUE / LANGUAGES:

Lingua Language:	Inglese
Scrittura Writing:	C2
Comunicazione Communication:	C1

Lingua Language:	Francese
Scrittura Writing:	C1
Comunicazione Communication:	C2

AREA/SETTORE SCIENTIFICO-DISCIPLINARE / AREA/SECTOR SCIENTIFIC-DISCIPLINARY

Area scientifico-disciplinare Area scientific-disciplinary:	Scienze economiche e statistiche
Area scientifico-disciplinare codice Area scientific-disciplinary code:	13
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-Econometria
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-ECON-05/A

DESCRIZIONE DEI PRINCIPALI RISULTATI SCIENTIFICI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 PUBBLICAZIONI) / DESCRIPTION OF THE MAIN SCIENTIFIC RESULTS ACHIEVED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 PUBLICATIONS):

Descrizione Description:	<i>My main research field is Econometrics and its financial and economic applications. My contributions are both from a methodological and applied point of view. Regarding methodological aspects, I contributed to the literature on simulation based methods and also on the Bayesian field. I devoted a lot of work to Markov switching models, pioneering their application in Finance. I continue to be a reference author for this type of models, in particular in the presence of latent components, which requires the use of simulation based techniques. Applications in financial econometrics include risk measurement, volatility modelling, financial crises, contagion and systemic risk. I contributed to multivariate GARCH modelling, also integrating Markov switching components. I also contributed to the business cycle modelling literature by proposing several Markov switching models and developing for EUROSTAT a system of coincident indicators for economic cycles based on the probabilities to</i>
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	<p>observe turning points. Also in this case, my work is well recognized. In recent years, I have devoted my research to analysing financial crises, systemic risk and sustainable finance. My work on the fields is nowadays very well recognized and I am often invited as an expert in conferences and round tables. In particular, the joint paper with Getmansky, Lo and Pelizzon (Journal of Financial Economics, 2012) is considered one of the main reference papers on the analysis of systemic risk and it draws huge attention of academics, practitioners and regulators. It has been recognised as "Most influential article published in leading journals of the Elsevier's Finance portfolio in recent years (2010-2015)". My overall citations are: Scopus: 70 papers with 2471 total citations and h-index 22 (without self-citations). Google Scholar: 160 publications with 7071 total citations and h-index 33 (i10-index 61). RePEc: top 5% of 65.000 economists (top 2% among women in economics world ranking, top 3% in Europe, top 2% in Italy).</p>
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PUBBLICAZIONI / PUBLICATIONS:

Anno della pubblicazione Year of publication:	2016
Citazione Citation:	CASARIN, Roberto, BILLIO, Monica, Osuntuy A. (2016). Efficient Gibbs sampling for Markov switching GARCH models. COMPUTATIONAL STATISTICS & DATA ANALYSIS, vol. 100, p. 37-57, ISSN: 0167-9473, doi: 10.1016/j.csda.2014.04.011

Anno della pubblicazione Year of publication:	2024
Citazione Citation:	Billio, Monica, Casarin, Roberto, Costola, Michele, Veggente, Veronica (2024). Learning from experts: Energy efficiency in residential buildings. ENERGY ECONOMICS, vol. 136, p. 1-15, ISSN: 0140-9883, doi: 10.1016/j.eneco.2024.107650

Anno della pubblicazione Year of publication:	2016
Citazione Citation:	AHELEGBEY, DANIEL FELIX, BILLIO, Monica, CASARIN, Roberto (2016). Bayesian Graphical Models for STRUCTURAL VECTOR Autoregressive Processes. JOURNAL OF APPLIED ECONOMETRICS, vol. 31, p. 357-386, ISSN: 1099-1255, doi: 10.1002/jae.2443

Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Billio, Monica, Casarin, Roberto, Iacopini, Matteo (2022). Bayesian Markov-Switching Tensor Regression for Time-Varying Networks. JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION, vol. 119, p. 109-121, ISSN: 0162-1459, doi:

	10.1080/01621459.2022.2102502
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Anno della pubblicazione Year of publication:	2019
Citazione Citation:	Bianchi Daniele, Billio Monica, Casarin Roberto, Guidolin Massimo (2019). Modeling Systemic Risk with Markov Switching Graphical SUR Models. JOURNAL OF ECONOMETRICS, vol. 210, p. 58-74, ISSN: 0304-4076, doi: 10.1016/j.jeconom.2018.11.005

Anno della pubblicazione Year of publication:	2023
Citazione Citation:	Monica Billio, Alfonso Dufour, Samuele Segato, Simone Varotto (2023). Complexity and the default risk of mortgage-backed securities. JOURNAL OF BANKING & FINANCE, vol. 155, ISSN: 0378-4266

Anno della pubblicazione Year of publication:	2021
Citazione Citation:	Monica Billio, Michele Costola, Iva Hristova, Carmelo Latino, Loriana Pelizzon (2021). Inside the ESG Ratings: (Dis)agreement and performance. CORPORATE SOCIAL-RESPONSIBILITY AND ENVIRONMENTAL MANAGEMENT, vol. online, ISSN: 1535-3966, doi: 10.1002/csr.2177

Anno della pubblicazione Year of publication:	2023
Citazione Citation:	Billio M, Casarin R, Iacopini M, Kaufmann S. (2023). Bayesian Dynamic Tensor Regression. JOURNAL OF BUSINESS & ECONOMIC STATISTICS, vol. 41, p. 429-439, ISSN: 0735-0015, doi: 10.1080/07350015.2022.2032721

Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Agudze K. M., Billio M., Casarin R., Ravazzolo F. (2022). Markov Switching Panel with Endogenous Synchronization Effects. JOURNAL OF ECONOMETRICS, vol. 230, p. 281-298, ISSN: 0304-4076, doi: 10.1016/j.jeconom.2021.04.004

DESCRIZIONE DEI PRINCIPALI PROGETTI DI RICERCA E PREMI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PRINCIPAL INVESTIGATOR O COORDINATORE LOCALE DI PROGETTI DI RICERCA COMPETITIVI NAZIONALI O INTERNAZIONALI, SIGNIFICATIVI PREMI CONSEGUITI PER LA PROPRIA ATTIVITÀ DI RICERCA)/ DESCRIPTION OF THE MAIN RESEARCH PROJECTS AND AWARDS AWARDED IN THE LAST 10

YEARS (WITH ATTACHED LIST OF MAXIMUM 10 ACHIEVEMENTS, INCLUDING, FOR EXAMPLE, PRINCIPAL INVESTIGATOR OR LOCAL COORDINATOR OF NATIONAL OR INTERNATIONAL COMPETITIVE RESEARCH PROJECTS, SIGNIFICANT AWARDS AWARDED FOR YOUR RESEARCH ACTIVITY):

<p>Descrizione Description:</p>	<p><i>I am participating in many research projects financed by the European Commission, World Bank, European Investment Bank, Eurostat and the Italian Ministry of Research (MIUR). I have been the scientific coordinator of the SYRTO EU-FP7 project devoted to systemic risk measurement and the local coordinator of four European projects on Energy Efficiency (EeMAP, EeDaPP, EeMMIP and ENGAGE). I am the coordinator of a H2020 project (TrAnsparEEns) dedicated to the development of ESG ratings for small and medium enterprises, the responsible of the Sustainable Finance workpage of the Italian NextGenerationEU program GRINS (Growing Resilient INclusive and Sustainable) and the coordinator of a Technical Supporting Initiative on ESG risk management framework for the financial sector financed by DG Reform and dedicated to 11 National Competent Authorities in 10 European countries. For Honors and Awards, the following can be highlighted in the last 10 years: - University of Reading, Henley Business School, Visiting Professor 2022-2024. - Most influential article published in leading journals of the Elsevier's Finance portfolio in recent years (2010-2015): Billio M., M. Getmansky, A.W. Lo and L. Pelizzon (2012), Econometric Measures of Connectedness and Systemic Risk in the Finance and Insurance Sectors, Journal of Financial Economics, 104, 535-559. - Advanced Research Award, University Ca' Foscari of Venice, 2015.</i></p>
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<p>Descrizione Description:</p>	<p>European Commission LIFE-2021-CET-MAINSTREAM, "ENGAGE - Engage for ESG activation investments", 2022-2025; Local coordinator.</p>
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<p>Descrizione Description:</p>	<p>MIUR Project "Fin4Green Finance for a Sustainable, Green and Resilient Society", 2022-2025; National principal investigator.</p>
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<p>Descrizione Description:</p>	<p>European Commission H2020-LC-SC3-EE-2020-2, "TranspArEEEnS - Mainstreaming Transparent Assessment of Energy Efficiency in ESG Ratings", 2021-2024; Principal investigator</p>
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<p>Descrizione Description:</p>	<p>European Commission H2020-LC-SC3-EE-2019, "EeMMIP Energy efficient Mortgage Market Implementation Plan", 2020-2023; Local coordinator.</p>
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Descrizione Description:	MIUR Project “Hi-Di NET Econometric Analysis of High Dimensional Models with Network Structures in Macroeconomics and Finance”, 2020-2023; National principal investigator.
Descrizione Description:	EIBURS Project “ESG-Credit.eu - ESG Factors and Climate Change for Credit Analysis and Rating”, 2019-2022; Principal investigator.
Descrizione Description:	European Commission H2020-EE-2017-CSA-PPI, “EeDaPP Energy efficiency Data Protocol and Portal”, 2018-2020; Local coordinator.
Descrizione Description:	European Commission H2020-EE-2016-CSA-PPI, “EeMAP Energy efficient Mortgages Action Plan”, 2017-2019; Local coordinator.
Descrizione Description:	European Commission - DG Reform TSI-2023-ESGRM-IBA, “ESG Uptake - ESG risk management framework for the financial sector”, 2023-2026; Principal Investigator
Descrizione Description:	MIUR – NextGenerationEU – GRINS Growing Resilient INclusive and Sustainable, Coordinator of the Sustainable Finance Spoke.

DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SVILUPPO DI RETI E RELAZIONI SCIENTIFICHE NAZIONALI E INTERNAZIONALI (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PARTECIPAZIONE O ORGANIZZAZIONE DI CONVEGNI NAZIONALI E INTERNAZIONALI; CONTRIBUTI A CONSORZI DI RICERCA) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF DEVELOPMENT OF NATIONAL AND INTERNATIONAL SCIENTIFIC NETWORKS AND RELATIONS (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, PARTICIPATION OR ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES; CONTRIBUTIONS TO RESEARCH CONSORTIA):

Descrizione Description:	<i>I have a well-established record of accomplishment in organizing international conferences and being on conference programme committees. Since its inception in 2002, I have been head of the organising committee of the CREDIT conference series, which are now one of the most recognised international conferences at the European level on risk. Overall, I have been involved in the organization of more than 100 international events on topics related to econometrics and finance, often with programme responsibilities. I am also involved in international network and research consortia:</i>
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	2023-: <i>Senior Fellow Rimini Center for Economic Analysis</i> 2021-: <i>Louis Bachelier Institute Fellow, France</i> 2020-: <i>Research Fellow Leibniz Institute SAFE, Germany</i>
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Descrizione Description:	Co-Chair 5th International Conference in Economics and Statistics (ECOSTA 2022), June 2022, Ryukoku University, Kyoto, Japan
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Descrizione Description:	Chair Scientific Program Committee, CREDIT 2020 Environmental, Social and Governance Risks, September 2020, Venice (https://www.greta.it/old/credit/credit2020/credit2020.htm)
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Descrizione Description:	Member Programme Committee, 32nd Annual Congress of the European Economic Association (EEA), August 2017, Lisbon
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Descrizione Description:	Programme Chair, Seventh Italian Congress of Econometrics and Empirical Economics (ICEEE), January 2017, Messina, Italy
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Descrizione Description:	Member Scientific Committee, 69th Econometric Society European Meeting (ESEM), August 2016, Geneva
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SUPPORTO ALLA COMUNITÀ SCIENTIFICA (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, RESPONSABILITÀ DI DIREZIONE DI COMITATI EDITORIALI; INCARICHI DI VALUTAZIONE DELLA RICERCA PRESSO ISTITUZIONI NAZIONALI O INTERNAZIONALI; RESPONSABILITÀ ISTITUZIONALI ALL'INTERNO DELL'ISTITUZIONE DI APPARTENENZA O DI ALTRE ISTITUZIONI) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF SUPPORT TO THE SCIENTIFIC COMMUNITY (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, MANAGEMENT RESPONSIBILITIES OF EDITORIAL COMMITTEES; RESEARCH EVALUATION ROLES AT NATIONAL OR INTERNATIONAL INSTITUTIONS; INSTITUTIONAL RESPONSIBILITIES WITHIN THE INSTITUTION OF AFFILIATION OR OTHER INSTITUTIONS):

Descrizione Description:	<i>INSTITUTIONAL RESPONSIBILITIES: Ca' Foscari University 2023 -: Member of the Academic Senate 2022-: Coordinator of the Teaching Committee, Economics, Finance and Sustainability</i>
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	<p>2014-2020 Head of the Department of Economics 2014-2020 Member of the Academic Senate 2003-: Member of the Teaching Committee PhD in Quantitative Economics 2007-2014 Coordinator of the Teaching Committee, Economics and Finance REVIEWING ACTIVITIES: 2023-: Associate Editor Journal of Financial Econometrics 2016-: Panel member "Best Paper Award", Vienna University of Economics and Business 2019-: Member International Advisory Board Advances in Decision Sciences 2018-: Member of the Advisory Board Annals of Financial Economics 2018-: Fellow International Engineering and Technology Institute 2014-: Member of the Board of Directors, EFMA European Financial Management Association 2013-: Member of the Scientific Committee, AIFIRM Italian Association Financial Industry Risk Managers 2015-: Associate Editor Econometrics and Statistics 2011-15 Associate Editor Annals Computational Statistics and Data Analysis External Reviewer for several National Research Councils: Canada, France, Australia, Swiss Referring activity (among many others): Econometrica, Econometric Theory, European Journal of Operational Research, Journal of Applied Econometrics, Journal of Econometrics, Journal of Money, Credit and Banking, Management Science, Journal of the Royal Statistical Society, Plos One</p>
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Descrizione Description:	President, SIdE Italian Econometric Society, 2022-2023.
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Descrizione Description:	Associate Editor Journal of Financial Econometrics, 2023-:.
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Descrizione Description:	Associate Editor Econometrics and Statistics, 2015-:.
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Descrizione Description:	Member of the Italian Commission for Professorship Habilitation, 2016-2018.
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Descrizione Description:	2014 - 2020 Head of the Department of Economics, Ca' Foscari University of Venice.
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI VALORIZZAZIONE DELLE CONOSCENZE (CON ANNESSO ELENCO DI MASSIMO 3 RISULTATI, RELATIVI ALLA PARTECIPAZIONE DEL CANDIDATO ALLE ATTIVITÀ DI VALORIZZAZIONE DELLE CONOSCENZE) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF KNOWLEDGE VALORIZATION (WITH ATTACHED LIST OF MAXIMUM 3 RESULTS, RELATING TO THE

CANDIDATE'S PARTICIPATION IN KNOWLEDGE VALORIZATION ACTIVITIES):

Descrizione Description:	<i>I have always accompanied my research activity both with publications in international journals and with dissemination and valorisation activities of the results of the research itself. In particular, in 2019 I set up a joint spin-off with the University of Brescia as the result of a European project on risk management topics. For the latest ongoing projects that have a strong applied research component, I have started a dissemination/awareness activity linked to the themes of sustainable finance which takes the form of supporting a dedicated television format (Focus ESG).</i>
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Descrizione Description:	Partner Spin Off University of Brescia and Ca' Foscari University Syrto srl (https://www.syrto.eu), 2019-2023.
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Descrizione Description:	Divulgazione scientifica di temi di finanza sostenibile attraverso format televisivo Focus ESG in collaborazione con Italpress e Prospiciunt - 2023
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Descrizione Description:	Creazione e coordinamento format video e podcast di divulgazione e discussione su temi economico/finanziari: Economics Tuesday Talks, 2020-2022
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Informazioni aggiornate alla data di candidatura 10-05-2025

Monica BILLIO

Il presente curriculum costituisce allegato e parte integrante dell'incarico sottoscritto