GERY ANDRÉS DÍAZ RUBIO

Information Office Contacts	Born in: Lima (Peru) · Citizenship: Peruvian · Residence: Bologna (Italy) DEPARTMENT OF STATISTICAL SCIENCES "PAOLO FORTUNATI", UNIVERSITY OF BOLOGNA Viale Quirico Filopanti 5, Office F6, Bologna 40126, Italy	
Current Positions	DEPARTMENT OF STATISTICAL SCIENCES "PAOLO FORTUNATI", UNIVERSITY OF BOLOGNA · PhD Fellow 2018/11-Present · Teaching Assistant 2020/09-Present	
Research Interests	Time Series \cdot Econometric Theory \cdot Model Selection \cdot Developing Economies \cdot Economic Analysis	
Education	 PHD STATISTICAL SCIENCES, UNIVERSITY OF BOLOGNA, ITALY 2021/10 Advisor: Prof. Simone GIANNERINI. Co-advisor: Dr. Greta GORACCI. Research Project: Extension of the Misspecification-Resistant Information Criterion (MRIC) [Hsu, Ing, Tong (2019), Ann. Statist.] to parametric weakly-stationary multivariate time series models; Review of model selection criteria in parametric, nonparametric, and multivariate time series. 	
	 MSC Есономися & Есономис Роцсу, UNIVERSITY OF BOLOGNA, ITALY Advisor: Prof. Roberto SCAZZIERI. Examiner: Prof. Roberto GOLINELLI. Field: Economic Analysis, Macro Econometrics. Dissertation title: "Dual Structures: Two Models for the Peruvian Economy". Grade: 110/110. GPA: 28.6. University credits: 138/120. 	
	• BSC ECONOMICS, UNIVERSITY OF FLORENCE, ITALY 2012/07 Advisor: Prof. Gabriele FIORENTINI. Field: Financial Econometrics. Dissertation: "The standard CAPM and the GARCH(1,1) model in the Peruvian Stock Market" (<i>in Italian</i>). Grade: 96/110. Major: <i>Financial Markets and Risk Management</i>	
	· Scientific Lyceum, Antonio Raimondi School, Lima (Peru). Grade: 100/100.	
Additional Courses	 SCHOOL ON COMPUTATIONAL STATISTICS AND DATA SCIENCE, IASC–LARS–ISI "STOCHASTIC SIMULATION AND REINFORCEMENT LEARNING" 2021/04/17-18 Instructors: Prof. L. Enrique SUCAR, Prof. Eduardo MORALES (Instituto Nacional de Astrofísica, Óptica y Electrónica), Prof. David Muñoz-Negrón (Instituto Tecnológico Autónomo de México). "GEOSTATISTICAL FUNCTIONAL DATA ANALYSIS" 2021/02/23-25 Instructors: Prof. Martha BOHORQUEZ, Prof. Ruben GUEVARA, Juan GUEVARA (Universidad Nacional de Colombia). "STATISTICAL INFERENCE IN MARKOV PROCESSES" 2020/11/23-26 Instructors: Prof. Verónica GONZÁLEZ-LÓPEZ, Prof. Jesús E. GARCÍA (University of Campinas). 	
	• BERNOULLI & INSTITUTE OF MATHEMATICAL STATISTICS ONE WORLD SYMPOSIUM 2020/08/24-28 Virtual one week symposium on Probability and Mathematical Statistics. Keynote Speakers: Prof. Emmanuel CANDES (<i>Stanford University</i>), Prof. Martin HAIRER (<i>University of London</i>), Prof. Kerrie MENGERSEN (<i>University of Brisbane</i>) and Prof. Wendelin WERNER (<i>ETH Zurich</i>).	
	 TIME SERIES MODELS: THEORY AND APPLICATIONS, CA' FOSCARI UNIVERSITY 2020/01/23-24 2nd Italian Workshop of Econometrics and Empirical Economics. Keynote Speakers: Prof. Sylvia FRÜHWIRTH-SCHNATTER (Wirtschaftsuniversität Wien) and Prof. Oliver LINTON (University of Cambridge). 	
	 PRINCIPLES, IDEAS AND THEORY IN ECONOMETRIC TIME SERIES, CRUB 2019/06/17-22 Italian Econometric Society (SIdE) Summer School. Keynote Speakers: Prof. Søren Johansen and Prof. Anders RAHBEK (University of Copenhagen). 	
Academic Activities	 UNIVERSITY OF BOLOGNA, BOLOGNA 2014-Preset Teaching Assistant · DEPARTMENTS OF ECONOMICS (DSE), POLITICAL AND SOCIAL SCIENCES (DSPS), AND STATISTICAL SCIENCES (DSS) · Lectures, applications, tutorials (using R, Stata, Gretl or MS Excel) and examination for the following courses: Advanced Macro Econometrics (Prof. R. Golinelli, MSc Economics and Economic Policy, DSE 2014) Econometrics 1 (Prof. C. Monfardini, MSc /PhD Economics, DSE 2015/2016) Econometrics 3 (Prof. C. Monfardini, MSc /PhD Economics, DSE 2015/2016) Data Mining and Business Decisions (Prof. M. Freo, MSc Corporate Management, DSE 2015/2017) Macroeconomics (Prof. A. Soci, BSc Political, Social and International Sciences, DSPS 2016/2017) Financial Markets and Institutions (Dr. F. Palmucci, BSc Business and Economics, DSE 2017) Statistics (Prof. M. Brizzi, MSc Quantitative Finance, DSS 2017/2018, 2019/2020), Advanced Micro Econometrics (Prof. R. Golinelli, MSc Economics and Economic Policy, DSE 2017/2018) Statistics (Prof. M. Ventrucci, BSc Tourism Economics, DSE 2019) Statistical Models for Market Research (Prof. M. Freo, MSc Statistics, Economics and Business, DSS 2018/2020) Probability I (Prof. A. Lanconelli, BSc Statistical Sciences (Stats&Maths), DSS 2020/present) Probability (Prof. A. Lanconelli, MSc Statistics, Economics and Business, DSS 2018/2020) Economics (Prof. R. Bottazzi, BSc Statistical Sciences, DSS 2020/present) Economics (Prof. R. Bottazzi, BSc Statistical Sciences, DSS 2020/present) Economics (Prof. R. Bottazzi, BSc Statistical Sciences, DSS 2020/present) 	

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Previous Positions	• OCEM ENERGY TECHNOLOGY, BOLOGNA 2017 Controller • Analysis and reorganization of financial data of <i>Ocem Airfield Technology</i> and <i>Ocem Powe</i> Support the redefinition project of both business and industrial processes. Support the alignment of b processes and information system (ERP). Daily controlling functions and data analysis. Responsible: C Controller Ludmilla RAPHET.	oth	
	 LIBRARY OF AGRICULTURAL SCIENCES & AMILCAR CABRAL LIBRARY, BOLOGNA 2013 Collaborator · Responsible: Dr. Francesco CASADEI and Dr. Elena TRIPODI. 	3/11-2015/07	
	· GDR TUTORING, BOLOGNA 2011 Teaching and Research Assistant · Tutorials and crash courses in R, Stata, Gretl, Eviews. Consulta data management, analysis, modelling and forecasting. Support graduate, undergraduate students, and professionals worldwide in quantitative subjects and technical projects.		
Refereeing Activity	Structural Change and Economic Dynamics (2018, 1 paper)		
Scholarships	 • UNIVERSITY OF BOLOGNA, PhD Statistical Sciences • UNIVERSITY OF BOLOGNA, MSc Economics and Economic Policy 	2018-2021 2012-2015	
Memberships	Italian Econometric Society \cdot International Association for Statistical Computing \cdot Bernoulli Society Institute for Mathematical Statistics		
Qualifications	 Languages: Spanish (mother tongue), Italian (mother tongue), English (fluent, B2 certificate) Packages: Eviews (advanced), Stata (advanced), GRETL (advanced), R (intermediate), MATLAB (intermediate), MATHEMATICA (basic) Others: MS Office, LATEX(TeXstudio, LyX), ERP (SAM 4.2), MS Dynamics CRM, Wordpress, Type 80 wpm, Windows OS 		
Seminars (speaker)	• "Misspecification-Resistant Information Criterion for multivariate time series" Department of Statistical Sciences, University of Bologna	2021/02/04	
	· "Model Selection with Nonparametric Methods for Nonlinear Time Series" Department of Economics, Universidad Nacional de Cuyo, Mendoza (Argentina)	2019/09/25	
	• "ECONOMIC CRISES: STRUCTURAL CONDITIONS AND INSTITUTIONAL MECHANISMS" With Prof. Roberto SCAZZIERI (University of Bologna, Accademia Nazionale dei Lincei). Seminar cycle: "Fan Profili ecologici della razionalità contemporanea", Department of Philosophy and Communication, University of B		
	· "An INTRODUCTION TO GAME THEORY: CONFLICTS AND INSTITUTIONS" Seminars: "La Macchina da Guerra". Department of Philosophy and Communication, University of Bologna	2017/02/24	
	· "The 'economic miracle' of Fujimori's administration (1990-2000)" Zonarelli centre, Bologna	2016/07	
Seminars, Conferences & Workshops (participant)	DEPARTMENT OF STATISTICAL SCIENCES, UNIVERSITY OF BOLOGNA · "Greening Energy Market and Finance" (2020/11/17), "International Migration data: advances and challenges" (2020/02/13), "Topics on conditional moment equation models: goodness-of-fit and missing data" (2020/01/20-21), PhD Statistical Sciences seminars cycle (2018/2019, 2019/2020, 2020/2021), StaTalk - Young Italian Statistical Society Meeting (2019/03/29), Big Data for Multi-Agent Specialized System (2019/03/28)		
	DEPARTMENT OF POLITICAL AND SOCIAL SCIENCES, UNIVERSITY OF BOLOGNA • "Economic Geography of the Colombian Political Conflict" (2019/07/03)		
	INSTITUTE OF ADVANCED STUDIES, UNIVERSITY OF BOLOGNA · "Mathematics that counts" (2021/03/23), "Extreme events: how to describe and predict them using mathematics (2021/01/19), "Data in public communications, history, impact, and key lessons for scientists and policy-makers" ("Organisational Learning and Adaptation to Address Complex Societal Challenges" (2020/11/17), "Rigour and ac Japanese traditional mathematics" (2019/11/19), "Using geometry to move robots quickly" (2019/10/29), "Social Research after the Fake New Debacle" (2019/10/22), "Stakeholder monitoring in banking" (2019/10/21), "Why the will last thirty years" (2019/04/16), "Work-Life Leadership: Managing Self and Others for Well-being On and Op (2019/03/05), "Dante and the Foundations of Argentine National Identity: Literature, Politics, and the Dream of a (2019/02/12), "Bringing new medicines to market sooner? The statistical and economic challenges of value-based design" (2019/11/27)	2020/12/01), esthetics: Media ne Trump era ff the Job" New Nation"	
	Ассадеміа Nazionale dei Lincei, Rome • International Conference "Rethinking Political Economy" (2019/04/10), Workshop "Structures and Transformat Interdisciplinary Matrix for Political Economy" (2017/10/26-27)	tions: an	
	BANK OF ITALY, BOLOGNA • "Statistics for Economic Analysis" (2019/02/21), "Monetary Policy and the Stability of the Value of Money" (2	019/01/24)	

	OTHERS "Live Showcase: Wolfram Technologies for Calculus, Algebra, Statistics and other Maths-Related Subjects" - Wolfram
	(2020/11/30), "Two days on CalcVar & PDEs" - Department of Mathematics UNIBO (2019/11/28-29), "The Mediterranean and the demographic fault"- Accademia delle Scienze (2019/05/16), "Critical Economics Summit" - INET and University of Bologna (2017/05/05-07), International Conference "Globalization, Human Capital, Regional Growth, and the 4 th Industrial Revolution" - Emilia-Romagna Region (2017/10/20), "Chinese culture and language" and "Asian Economy" - PUCP (Peru) (2006/03-06)
Thesis work	• "DUAL STRUCTURES: TWO MODELS FOR THE PERUVIAN ECONOMY", MSc in Economics and Economic Policy, Department of Economics, University of Bologna, 2016.
	Political economy analysis of Peru (1980-2016); construction of an institutional model; and study of a structured VAR model for the monetary policy transmission mechanism. With Eviews).
	• "THE STANDARD CAPM AND THE GARCH(1,1) MODEL IN THE PERUVIAN STOCK MARKET", BSc in Economics, Department of Economics, University of Florence, 2012.
	Empirical analysis of the CAPM using 29 firms listed on the Lima Stock Exchange during the period 2006-2012; estimation of a GARCH (1,1) model on the IGBVL (Bolsa de Valores de Lima General Sector Index). With Eviews. Original title: Analisi Econometrica del CAPM nel mercato azionario peruviano.
Work in progress	\cdot "Towards the vectorial MRIC: an asymptotic expression for the MSPE matrix in weakly stationary multivariate time series", 2021.
	· "A path to multivariate time series model selection", 2021.
	• "THE INSTITUTION OF SYSTEMIC CORRUPTION IN PERU", 2017. JEL CODES: D73, B52, O54. Research proposal selected by the PhD School of Legal and Economic Sciences, University of Verona - BPM Scholarship (not accepted).
	· "A Structured – VAR approach for the monetary transmission mechanism in Peru", 2017. JEL codes: C32, C36, C5, E52.
	· "Economic and social co-ordination in Peru from an institutional and game-theoretical perspective", 2017. JEL codes: O54, B52, O17, P48.
Conference paper	· "On the asymptotic mean-squared prediction error for multivariate time series", SIS 2021 Book of Short Papers. Eds. C. Perna, N. Salvati, F. Schirripa Spagnolo. Pearson, 2021. 50 th Scientific Meeting of the Italian Statistical Society, Pisa 21-25 June 2021. ISBN: 9788891927361.
Interests	Travelling \cdot Guitar \cdot Percussions
References	Professor Simone Giannerini, Dept. Statistical Sciences "Paolo Fortunati", University of Bologna 🕿 (+39) 051 2098262 · 🖂 simone.giannerini@unibo.it
	Professor Roberto Golinelli, Dept. Economics, University of Bologna 🕿 (+39) 051 2092638 · 🖂 <mark>roberto.golinelli@unibo.it</mark>
	Professor Roberto Scazzieri, Dept. Economics, University of Bologna 🕿 (+39) 051 2098146 · 🖂 <u>rs292@cam.ac.uk</u>

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