Curriculum Vitae[1]

Massimo Franchi

Personal Information

Date and place of birth: 27/02/1974 Lavagna (GE), Italy.
Office address: Dipartimento di Scienze Statistiche, Università di Roma "La Sapienza", P.le A. Moro 5 00185 Rome, Italy.
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Current position

November 2008 - today: Assistant professor at University of Rome "La Sapienza".

Research interests

Multivariate Time Series Analysis, Cointegration, Common features.
Linear Algebra, Matrix functions, Canonical forms, Spectral analysis.

Main publications

(1) with P. Paruolo, Inversion of regular analytic matrix functions: local Smith form and subspace duality (2011), *Linear Algebra and its Applications* 435, p.2896-2912.
(2) with J. Ordóñez, Multiple equilibria in Spanish unemployment (2011), *Structural Change and Economic Dynamics* 22, p.71-80.
(3) with P. Paruolo, A characterization of vector autoregressive processes with common cyclical features (2011), *Journal of Econometrics* 163, p.105-117.
(4) A representation theory for polynomial cofractionality in vector autoregressive models (2010), *Econometric Theory* 26, p.1201-1217.
(5) with J. Ordóñez, Common smooth transition trend-stationarity in European unemployment (2008), *Economics Letters* 101(2), p.106-109.
(6) with K. Juselius, Taking a DSGE model to the data meaningfully (2007), *Economics E-Journal*, vol.1.
(7) The integration order of vector autoregressive processes (2007), *Econometric Theory* 23(3), p.546-553.

Work in progress

(1) Cointegration, serial correlation common features and the local Smith form, 2011.
(2) with P. Paruolo, Laurent series representation by local rank factorization, 2011
(3) with P. Paruolo, Normal forms of regular matrix polynomials via local rank factorization, DSS Empirical Economics and Econometrics Working Papers Series n.1, 2011.
(4) with P. Paruolo, Stochastic cycles in VAR processes, 2009.
(5) Un-hiding roots in vector autoregressive processes, 2008.
(6) On the representation theory of fractional processes, 2006.
(7) General unit roots structures: representation theory, 2006.
(8) A note on Lemma 1 in Granger Representation theorem, 2006.
(9) Is the U.S. Current Account Deficit Sustainable? Evidence from a Cointegrated VAR model, 2005.

[1]Updated on September 13, 2011.

Other publications and discussion papers

(1) Econometria (2006), in *Enciclopedia Italiana Treccani* XXI Secolo.
(2) A general representation theorem for integrated vector autoregressive processes (2006), *Discussion paper University of Copenhagen Institute of Economics* n.06-16.
(3) with G. Cerulli, The role of a priori knowledge in business-cycle measurement (2005), *Congiuntura* n.40, p.61-87.
(4) A priori inequality restrictions and bound analysis in VAR models (2004), *Discussion paper University of Copenhagen Institute of Economics* n.04-14.
(5) Best execution, multiple trading venues e sistemi di scambi organizzati: alcune considerazioni generali ed un'analisi empirica del mercato dei Titoli di Stato (2003), *Quaderni di Finanza CONSOB* n.56.
(6) A non causal identification scheme for vector autoregressions (2002), *Department of Economic Science Discussion Paper* n.41.
(7) Fondamenti teorici della politica monetaria: perche' la politica di inflation targeting e' ottimale? (2000), *Annali Fondazione Luigi Einaudi*, vol.XXXIV, p.31-54.

Education

July 2004: Ph.D. in Economics, Department of Economics, Faculty of Statistics, University of Rome "La Sapienza". Title of the thesis: "*Identification through qualitative a priori restrictions*". Supervisor: Prof. Marco Lippi.

August 2001: Scuola Matematica Interuniversitaria (SMI), Perugia. Courses and grades: Probability (A) and Complex Analysis (B).

July 2000: M.Sc. in Economics, Universitat Pompeu Fabra, Barcellona.

April 1999: B.A. with honors in Economics, Faculty of Economics, University of Rome "La Sapienza". Supervisor: Prof. Giancarlo Gandolfo.

Grants, visiting positions and fellowships

October 2007 - September 2009: Carlo Giannini Fellow in Econometrics, University of Insubria, Varese, in collaboration with Prof. Paolo Paruolo.

February - May 2007: Visiting Associate Professor, Institute for Mathematical Sciences, University of Copenhagen.

October 2006 - January 2007: Visiting Professor, Department of Economics, Universitat Jaume I, for the project: "*Application of STAR and STAR-GARCH models to economic data*", in collaboration with Prof. Javier Ordóñez Monfort.

September 2005 - August 2006: Assistant Research Professor (Post Doc), Department of Economics, University of Copenhagen.

July 2005 - July 2007: Renewal of Post Doc fellowship in Econometrics, Department of Economics, University of Rome "La Sapienza".

January - July 2004: Marie Curie fellowship, Department of Economics, University of Copenhagen, for the project: "*Identification issues in the Cointegrated VAR model*". Faculty member: Prof. Katarina Juselius.

July 2003 - July 2005: Post Doc fellowship in Econometrics, Department of Economics, University of Rome "La Sapienza", for the project: "*The econometrics of cointegration*". Faculty member: Prof. Enrico Zaghini.

March 2002 - January 2004: CONSOB fellowship (first classified), for the project: "*Empirical analysis of Alternative Trading Systems (ATS)*". CONSOB member: Dott. Barbara Leoni.

October 2000 - June 2003: Ph.D. fellowship (first classified), Department of Economics, University of Rome "La Sapienza".

September 2000 - November 2000: Economist, Research Department, San Paolo Imi Bank.

September 1999 - July 2000: Fondazione Luigi Einaudi fellowship, M.Sc. in Economics at Universitat Pompeu Fabra, Barcelona.

Conferences and seminars

(1) "Normal forms of regular matrix polynomials via local rank factorization", 17th ILAS Conference, Braunschweig, August 2011.
(2) "Stochastic cycles in VAR processes", ICEEE, Pisa, January 2011.
(3) "————", 6th Eurostat Colloquium on Modern Tools for Business Cycle Analysis, Luxembourg, September 2010.
(4) "————", Conference in Memory of Carlo Giannini, Roma, January 2010.
(5) "A characterization of VAR with common cyclical features", Econometrics, Time Series Analysis and Systems Theory, Conference in Honor of Manfred Deistler, Wien, June 2009.
(6) "————", ICEEE, Ancona, January 2009.
(7) "————", Factor Structures for Panel and Multivariate Time Series Data Conference, Maastricht, September 2008.
(8) "————", NBER-NSF Time Series Conference, Århus, September 2008.
(9) "A representation theory for polynomial cofractionality in vector autoregressive models", European Econometric Society Meeting (ESEM), Milano, August 2008.
(10) "————", Conference in Memory of Carlo Giannini, Bergamo, January 2008.
(11) "————", Tinbergen Institute Conference, Rotterdam, March 2007.
(12) "————", Italian Congress of Econometrics and Empirical Economics (ICEEE), Rimini, January 2007.
(13) "The integration order of vector autoregressive processes", European Econometric Society Meeting (ESEM), Vienna, August 2006.
(14) "A general representation theorem for integrated vector autoregressive processes", Summer Econometric Workshop, Århus, August 2006.
(15) "The integration order of vector autoregressive processes", Cointegrated VAR model: methods and applications, Copenhagen, June 2006.
(16) "A priori inequality restrictions and bound analysis in VAR models", Italian Congress of Econometrics and Empirical Economics (ICEEE), Venezia, January 2005.
(17) "————", Riunione Annuale della Società Italiana degli Economisti (SIE), Bologna, October 2004.
(18) "————", Econometric Methods for the Modelling of Nonstationary Data, Policy Analysis and Fhourscasting (EMM) Annual Conference, Alghero, September 2004.
(19) "————", Econometric Study Group (ESG) Annual Conference, Bristol, July 2004.
(20) "'A non causal identification scheme for vector autoregressions", Statistical Modelling of Discrete Structures in Economics: Methods and Applications, Munich, June 2003.
(21) "————", Spring Meeting of Young Economists (SMYE), Leuven, April 2003.
(22) "————", Computing in Economics and Finance (CEF), Aix-en-Provence, June 2002.
(23) "Monetary policy: empirical issues", Workshop on Monetary Policy Theory, Catholic University of Milano, December 2001.
(24) "A characterization of VAR with common cyclical features", EIEF, Rome, November 2009.
(25) "————", Joint Research Centre, Ispra , October 2008.
(26) "————", Università di Padova, September 2008.
(27) "————", University of Copenhagen, September 2008.
(28) "Taking a DSGE model to the data meaningfully", University of Insubria, October 2007.
(29) "A representation theory for polynomial cofractionality in vector autoregressive models", University of Maastricht, January 2007.
(30) "————", Ente Luigi Einaudi, Rome, December 2006.
(31) "The integration order of vector autoregressive processes", Universitat Jaume I, Castellon de la Plana, October 2006.
(32) "————", Università Cattolica di Milano, May 2006.
(33) "————", University of Århus, May 2006.
(34) "————", University of Verona, April 2006.
(35) "————", University of Insubria, Varese, March 2006.

(36) "————", Department of Applied Mathematics and Statistics, University of Copenhagen, March 2006.
(37) "A priori inequality restrictions and bound analysis in VAR models", University of Urbino, April 2005.
(38) "————", University of Brescia, April 2005.
(39) "————", University of Lecce, April 2005.
(40) "————", Universitat Jaume I, Castellon de la Plana, October 2004.
(41) "————", University of Pisa, June 2004.
(42) "————", Centre for Applied Microeconometrics (CAM) seminar, University of Copenhagen, June 2004.

Teaching

March 2011: Econometrics (9 ECTS), University of Rome "La Sapienza", Topics in VAR Modeling, EIEF, Econometrics II, LUISS.
March 2010: Econometrics (9 ECTS), University of Rome "La Sapienza", Topics in VAR Modeling, EIEF.
October 2009: Laboratorio di Statistica Aziendale (6 ECTS) and Econometrics I (Ph.D., 20 hours), University of Rome "La Sapienza".
October 2008: Econometrics I (Ph.D., 18 hours), University of Rome "La Sapienza".
June 2008: Cointegration (Ph.D., 12 ore), CIdE Summer School in Econometrics (Bertinoro).
December 2007 Advanced Financial Econometrics (Master, 14 hours) with Paolo Paruolo, University of Insubria.
December 2007: Econometrics I (Ph.D., 28 hours), University of Rome "La Sapienza".
May 2007: Advanced Econometrics: Cointegration (Master, 16 hours) with Anders Rahbek, University of Copenhagen.
February 2007: Econometrics I (BA, 35 hours), University of Copenhagen.
December 2006: Econometrics I (Ph.D., 28 hours), University of Rome "La Sapienza".
July 2006: Teaching Assistant (40 hours) at MATLAB Summer School (Prof. Ulrich Woiteck), University of Lecce.
April 2006: Cointegration (Ph.D., 15 hours), University of of Lecce.
July 2005: Teaching Assistant (40 hours) at MATLAB Summer School (Prof. Ulrich Woiteck), University of Lecce.
May 2005: Cointegration (Ph.D., 8 hours), University of Rome "La Sapienza".
April 2005: Cointegration (Ph.D., 8 hours), University of Lecce.
October, December 2004: Econometrics I (Ph.D., 48 hours), University of Rome "La Sapienza".
October, December 2003: Econometrics I (Ph.D., 48 hours), University of Rome "La Sapienza".
December 2002: Pre-course of Matematichs (Ph.D., 6 hours) for Microeconomics III (Prof. Gaetano Bloise), University of Rome "La Sapienza".
October, December 2002: Teaching Assistant (Ph.D., 20 hours) of Microeconomics I (Prof. Luigi Ventura), University of Rome "La Sapienza".
February, April 2002: Teaching Assistant (Master, 12 hours) of Macroeconomics (Prof. Mauro Gallegati), ICSIM.
March 2002: Teaching Assistant (Ph.D., 4 hours) of Macroeconomics (Prof. Claudio Sardoni), University of Rome "La Sapienza".
October, December 2001: Teaching Assistant (Ph.D., 20 hours) of Microeconomics I (Prof. Luigi Ventura), University of Rome "La Sapienza".

References

Søren Johansen, University of Copenhagen.
Paolo Paruolo, Università dell'Insubria.
Marco Lippi, Università di Roma "La Sapienza".