Antonio Cosma

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Specialized in	Microeconometrics, semi- and non-parametric statistics, indirect inference, numerical methods	
Research interests	Missing data, dynamic categorical dynamic panel models	

Occupation

Current	**University of Bergamo**, Associate professor	2022-
Previous	**University of Luxembourg**, Associate professor	2005-2022
	Università della Svizzera Italiana, Institute of Finance, Post-doc researcher	2004-2005
Visiting	**Sapienza Università di Roma**, Dipartimento di Economia e Diritto	3/2022- 4/2022
	Università della Svizzera Italiana, Institute of Finance	9/2021-12/2021

Education

Université catholique de Louvain, PhD in Economics (Doctorat en sciences économiques)	2000-2004
Université catholique de Louvain, MSc in Financial Economics (Diplôme d'études spécialisées en économie financière)	1999-2000
Università degli studi di Pavia, BSc in Physics (Laurea in Fisica)	1992-1997

Service

University of Luxembourg	Course director, Bachelor in Management (Bachelor en gestion, professionnel)	2012-2019
	Course co-director (2007-2009) and director (2009-2011), Master of Science in Banking and Finance	2007-2011
	Member of the University Council (Conseil universitaire)	2009-2014
	Member of the Faculty Council (Conseil facultaire), Faculty of Law, Economics and Finance	2007-2019
Professional service	Reviewer for the ANR (Agence Nationale de la Recherche) call "Appel à projets générique"	2016
	Member of the Group of Experts to establish the European Master in Official Statistics – https://wayback.archive-it.org/12090/20231229031545/https://cros-legacy.ec.europa.eu/content/group-experts-2014_en	2014

Research

Ongoing projects

The archer in the mist. Joint with L. Panaccione. *(Revise and resubmit at the Italian Economic Journal).*

Semiparametric indirect inference for binary dynamic panel data. Joint with F. Galli.

Grants

Experimental analysis of substitution effect, La Sapienza Università di Roma, Visiting Professor Call	2022
INDIFCAT, Fonds National de la Recherche, Luxembourg, FNR-Inter Mobility	2021

PhD supervision

Supervisor

Andreï Victorovitch Kostyrka, 2021, University of Luxembourg. Joint supervision with Gautam Tripathi. Thesis title: "Efficient estimation with non-standard sampling or missing endogenous variables, and conditional density modelling with unobserved copula-connected shocks."

PhD committee

Member of the supervision committee (comité d'encadrement) at the University of Luxembourg:

Ongoing thesis (Supervisor): Adrien Boulanger (G. Tripathi).

Finished theses (Year of graduation, Supervisor): Sofia Borodich Suarez (2025, G. Tripathi and M. Schumann), Martin Schumann (2017, G. Tripathi), Christian Pietsch (2015, A. Müssig), Marie Lambert (2010, G. Hubner and P.-A. Michel), Robert Vermeulen (2010, M. Beine and B. Candelon).

Publications

Journals

Missing endogenous variables in conditional moment restriction models. Joint with A. Kostyrka and G. Tripathi. *Journal of Business & Economic Statistics.* Forthcoming.

Cosma, A., S. Galluccio, P. Pederzoli, and O. Scaillet (2020). Early exercise decision in American options with dividends, stochastic volatility and jumps. *Journal of Financial and Quantitative Analysis 55(1), 331–356*. DOI: 10.1017/S0022109018001229.

Cosma, A., A. V. Kostyrka, and G. Tripathi (2019). Inference in conditional moment restriction models when there is selection due to stratification. *Advances in Econometrics 39 (titled The Econometrics of Complex Survey Data: Theory and Applications)*, 137–171. DOI: 10.1108/s0731-905320190000039010.

Beine, M., A. Cosma, and R. Vermeulen (2010). The dark side of global integration: Increasing tail dependence. *Journal of Banking & Finance* 34(1), 184–192. DOI: 10.1016/j.jbankfin.2009.07.014.

Cosma, A., O. Scaillet, and R. von Sachs (2007). Multivariate wavelet-based shape preserving estimation for dependent observations. *Bernoulli 13(2)*. Open Access, 301–329. DOI: 10.3150/07-bej5066.

Chapters in books

Cosma, A. and F. Galli (2019). A nonparametric ACD model. In: *Financial Mathematics, Volatility and Covariance Modelling*. Ed. by J. Chevalier, S. Goutte, D. Guerreiro, S. Saglio, and B. Sanhaji. Vol. 2. Routledge Advances in Applied Financial Economics. Routledge, Taylor & Francis, London. Chap. 5, pp.122–144, DOI: 10.4324/9781315162737.

Cosma, A. and M. Lambert (2009). Diversification properties of Funds of Hedge Funds for Luxembourg's marketplace. In: *Finance et Valeurs*. Ed. by A. Corhay, G. Hubner, and A. Muller. Les Editions de l'Université de Liège. pp. 237–255. ISBN 9782874561054

Articles for General Public

Cosma, A. Algorithmes et marchés d'options, D'Lëtzebuerger Land, January 3, 2014.

Presentations

International Conferences

World Congress of the Econometric Society (2025, Seoul, Republic of Korea), EEA-ESEM (2023,Barcelona School of Economics, Barcelona, Spain), 6th International Conference on Econometrics and Statistics (2023, Waseda University, Tokyo, Japan), CIMEO Workshop in Experimental Economics(2022, Università di Roma la Sapienza, Italy), International Conference on Econometrics and Statistics (2019, Taichung, Taiwan), The Econometrics of Complex Survey Data: Theory and Applications (2017, Ottawa, Canada), European Finance Association (2016, Oslo, Norway), 14th Paris December Finance Meeting (2016, Paris, France), AFFI (2016, Liège, Belgium), Mathematical and Statistical Methods for Actuarial Sciences and Finance (2014, Salerno, Italy), Quantitative Economics Conference (QEC2013, Beijing, China), European Economic Association / Econometric Society (2011, Oslo, Norway), Mathematical and Statistical Methods for Actuarial Sciences and Finance (2010, Ravello, Italy), 6th World Congress of the Bachelier Finance Society (2010, Toronto, Canada), International Federation of Operational Research Societies Conference (2008, Sandton, South Africa), 25th European Meeting of Statisticians (2005, Oslo, Norway), Econometric Society World Congress (2005, London, UK).

(Recent) Invited talks

Università di Roma 2, Tor Vergata, June 1, 2022
Università di Parma, April 5, 2022
Università di Roma, la Sapienza, March 18, 2022
Università di Milano-Bicocca, January 11, 2022
Università di Lugano, October 13, 2021

Editorial Activities

Referee

Advances in Econometrics, Economic Modelling, Economie Internationale, Empirical Economics, Entropy, European Journal of Finance, Financial Markets and Portfolio Management, International Review of Economics and Finance, Journal of the American Statistical Association, Journal of Banking and Finance, Journal of Computational Finance, Journal of Derivatives, Journal of Econometrics, Journal of Financial Econometrics, Journal of risk and financial management, Management Science, Northern American Journal of Economics and Finance, Risks, Stochastic Analysis and Applications, Studies in Nonlinear Dynamics & Econometrics, Sustainability, The Manchester School

Teaching Experience

Course and program names are in the languages in which the course or program are taught. In parentheses (ECTS, hours)

Méthodes d'identification en économétrie de panel , Séminaires doctoraux en Economie, (10 hours) , Dakar Coopération universitaire Luxembourg-Afrique de l'Ouest — 2025

Quantitative Research Module: Panel Analysis , Doctoral School in Management Accounting and Finance, (4 hours) , Università degli studi di Bergamo — 2024-

Elementi di matematica , Economia aziendale , (9/ 72), Università degli studi di Bergamo — 2022-

Strumenti per la misurazione del rischio e delle performance aziendali , Economia aziendale , (6/ 48), Università degli studi di Bergamo — 2022-

Statistics , Master of Science in Finance and Economics , (2/ 15), University of Luxembourg — 2019-2022

Econometrics 2 , Master of Science in Finance and Economics , (5/ 30), University of Luxembourg — 2017-2022

Applied econometrics , Master in Accounting and Audit , (3/ 27), University of Luxembourg — 2015-2022

Financial econometrics , Master of Science in Finance and Economics, (5/ 15) , University of Luxembourg — 2014-2022

Mathématiques I , Bachelor en Sciences Économiques , (6/ 33) , University of Luxembourg — 2011-2022

Risk Management , Master of Science in Banking and Finance , (3/ 30) , University of Luxembourg — 2005-2010

Investments , Master of Science in Banking and Finance , (2/ 15) , University of Luxembourg — 2005-2008

Time Series , Master of Science in Finance , (30 hours) , Università della Svizzera Italiana — 2004