

SHORT BIO - DOMENICO MARINUCCI

Domenico Marinucci was born in Rome on September 19, 1968 (citizenship: Italian). He obtained his PhD from the University of London in 1998, with a thesis on Frequency Domain Analysis of Fractionally Integrated and Cointegrated Stochastic Processes (under the supervision of P.M.Robinson). Currently he is Professor of Probability and Mathematical Statistics at the Department of Mathematics of the University of Rome Tor Vergata; he was Chairman of the Department from 2007 to 2015.

His main research interests are devoted to random fields and their applications to Cosmology; in particular, he has worked on the characterization of isotropy and Gaussianity for spherical random fields, on angular polyspectra and their relationship with group representations, on spherical wavelets/needlets and their stochastic properties, on tensor-valued random fields (random sections of spin fiber bundles), and on the geometry of random eigenfunctions (nodal lines, critical points, Lipschitz-Killing Curvatures). He is a member of the *Planck* Mission for the analysis of Cosmic Microwave Background radiation (CMB) and of the *Euclid* Satellite Collaboration for Weak Gravitational Lensing (both from ESA); currently he is the Vice-President of the *International Astrostatistics Association*. From 2011-2016, he held the European Research Council grant *PASCAL* (*Probabilistic and Statistical Techniques for Cosmological Applications*). From 2016, he is Editor-in-Chief of the *Electronic Journal of Statistics*.

He has published about 90 papers in major journals in Probability, Mathematical Statistics, Analysis, Mathematical Physics and Astrophysics/Cosmology, plus a book for Cambridge University Press (with G.Peccati). As of April 2019, these papers have received more than 12,000 quotations according to Google Scholar and around 6,000 according to Scopus.