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Education. PhD, Physics, Università di Genova (1996); Laurea (cum laude), Physics, Università di Genova (1992)

Professional Background. Full Professor, Numerical Analysis, Università di Genova, and Associate Researcher, CNR - SPIN, Genova (2013-present); Principal Investigator of the MIDA Group (2003-present); Associate Professor, Numerical Analysis, Università di Genova (2010-2013); Associate Professor, Computer Science, Università di Verona (2005-2009); Assistant Professor, Numerical Analysis, Università di Genova (2001-2005); Research Associate, INFM, Genova, Italy (1999-2001); Post-doc, INFM, Genova, Italy (1998-1999); Post-doc, University of Delaware, USA (1997-1998)

Relevant professional services. Scientific Director of APRE Liguria (2018-present); Member of the NASA RHESSI Team (2002-present); Co-Investigator for the ESA STIX mission (2012-present); Co-Investigator for the NASA FOXSI SMEX missione (2017-present); Vice-Rector for Research and Transfer of Knowledge (2015-2018); Vice-Rector for International Relations (2014-2015); Work Package Leader and Unit Leader of the EU H2020 FLARECAST (2015-2017); Director of the PhD program in Mathematics and Applications, Università di Genova (2010-2014); Coordinator of the EU FP7 project HESPE (2010-2013); vice-President of the Polo Regionale per la Ricerca e Innovazione 'Tecnobionet' (2011-2014); Head of the Centro Interuniversitario per la Neurofisiologia del Dolore (2011-2014); Head of the Scuola di Dottorato 'Scienze e Tecnologie per l'Informazione e la Conoscenza' (2012-2013); organizer of several workshops on inverse problems and mathematical methods for data analysis within international conferences; member of the Organizing and Scientific Committees of the RHESSI IX Workshop (2011); member of the board of "Applied Inverse Problems 2009 (AIP 2009)" (2009); member of the Italian GNCS (National Group of Scientific Computation)

Biographical Sketch. Prof. Piana's research is concerned with inverse problems, computational data analysis in solar physics, medical imaging, and neuroscience. Applications involve Positron Emission Tomography imaging, electro- and magnetoencephalography, magnetic resonance imaging, X-ray CT imaging, hard X-ray and EUV solar imaging, machine learning for space forecasting. He is and has been principal investigator and work package leader in several national, EU, and international research projects and is involved in several collaborations under industrial contracts.

Publication summary: more than 80 refereed articles, 3 book chapters and more than 20 conference publications.