

Curriculum Vitae
TIZIANA DI MATTEO

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Education

1995–1998: Ph.D., Trinity College and Institute of Astronomy, University of Cambridge, UK
1992–1995: B.Sc. (Honours) in Astrophysics, 1st Class,
University College London, University of London, UK

Positions

2014 Full Professor, Physics Department, Carnegie Mellon University
2011 Visiting Professor, Oxford University, UK (Sabbatical leave; Dec.-Aug. 2011)
2009-2014 Associate Professor with tenure, Physics Department, Carnegie Mellon University
2005–2009 Associate Professor w/o tenure, Physics Department, Carnegie Mellon University
2003– 2005 C3 Professor, Max-Planck-Institut für Astrophysik (October 2003 - January 2005)
2001 - 2003 Long term Research Associate, Max-Planck-Institut für Astrophysik (October 2001 - October 2003)
1998– 2001: Chandra Postdoctoral Fellow, Theoretical Astrophysics Division, Harvard University
2000: Invited visitor, Institute of Astronomy, University of Cambridge (May 2000)
1995–1998: Teaching Assistant, University of Cambridge
1995–1998: Graduate Fellow, Trinity College, University of Cambridge

Awards and Honors

2014 American Physical Society (APS) Fellowship
2011 Urania E. Stott Fellowship Grant (Pittsburgh Foundation)
2009 Moore Foundation, Computational Resources and Grant
2008 Carnegie Science Award of Excellence (Emerging Female Scientist)
2006 Berkham Faculty Grant (Carnegie Mellon University)
1998–2001: Chandra Fellowship, Harvard University
1999: Royal Astronomical Society Michael Penston Prize for best doctoral theses in the UK
1995–1998: Trinity College Research Scholarship and PPARC Studentship, University of Cambridge
1992–1995 Herschel, Huggins and Halley Prize for best performance in Physics and Astronomy, University of London

Professional Service

2016 Collaborator on NASA MIDEX proposal for STAR-X mission
2016 Rapporteur, Rebekka Bieri Thesis Committee, Institut d’Astrophysique de Paris
2015 Member, NSF Advanced LIGO computing review
2014-date Member, The Blue Waters Science and Engineering Team Advisory Committee (BW SETAC, NSF)
2013 Chair, Astronomy - committee for IUPAP Conference on Computational Physics
2013-14 Member, NASA Hubble Space Telescope Proposal Review Panel
2012-date Member, LSST Dark Energy Science Collaboration, Cosmological Simulation Task Force
2012-date Member, NSF XSEDE Resource Allocation Committee
2011-2013 Member, *Chandra* User Committee (CUC)
2011 Member, NASA Theory Program (ATP) Review Panel

2009-2010 Member of Board of Advisors for IMAX production, Journey to a Black Hole, OmniCosm Studios
2009-date Member of Carnegie Science Center Awards of Excellence Committee
2009-2010 Member of NSF High Performance Computing (HPC) Task Force
2008-2010 Member, NSF Peer Review Panels
2009 Elected Member of National Research Council (NRC) and National Academy of Sciences, Astro2010 Decadal Survey Panel, Physics and Astronomy
May 2009 Member of the Division of Computational Physics (DCOMP) of the American Physical Society (APS)
February 2009 AAAS Annual Meeting, Chicago
2009-date University of Pittsburgh, Thesis Committee for Mei-Yu Wang (Supervisor, Andrew Zentner)
2007-date NASA Postdoctoral Program (NPP) Reviewer
2006-2007 NASA Chandra Fellowships Selection Committee
2006-2007 *Veni* Fellowship External Reviewer
2005-date Peer Reviewer for *Nature*, *Science*
2003-date Peer Reviewer for NASA-Chandra X-ray Observatory Proposals
2003-2004 European Association for Research in Astronomy (*EARA*) Deputy for Max-Planck-Institut für Astrophysik
1998-date: Peer Reviewer for the *Astrophys. J.*, *MNRAS*, *A&A*, *Nature*, *Science* - Book Reviewer for *Am. J. Phys.*

Scientific Conference Organization

–Co-Chair, Physics Track Committee "Platform for Advanced Scientific Computing" (PASC17), June 2017
 –"Looking back at the first billion years with next-generation observatories", EWASS 2017
 –"The Galaxy-Halo Connection", SnowPac, Salt Lake City, March, 2016
 –"Essential Cosmology for the next generation" Cosmology on the Beach, Jan. 2016
 –"Demographics and environment of AGN from multi-wavelength surveys", Chaina, Crete, Sept 21, 24 2015.
 –LSST/CMU meeting Innovative Cosmological Simulations", Pittsburgh (July 3-5, 2015)
 –XXVI IUPAP Conference on Computational Physics (CCP2014), Boston, (Aug. 11-14, 2014)
 –COSPAR 2012: Probing the High-z Universe Meeting (July 14-22, 2012)
 –Conference on Cosmic Chemical Evolution meeting in St. Michael's, (June 2-4,2010)
 –Chandra X-ray Center workshop: Accretion Processes in X-rays: from White Dwarfs to Quasars, (July 13-15, 2010)
 –38th COSPAR Scientific Assembly Bremen, Germany, (18-25 July 2010)
 –Durham workshop "What drives the growth of black holes?" (19-22 April 2010)
 –Monster's Fiery Breath, Madison Wisconsin, (1-6 June 2009)
 –Great Lakes Cosmology Workshop, Organizing Committee, (June 2008)
 –Principal Organizer of mini Workshop on "Black holes, stars and galaxies: Observations and Simulations", Max Planck Institut, (December 2004)

University Service - Carnegie Mellon University

•Physics Department

– Co-Chair, Cosmology Faculty Search Committee (2015-2016)
 – Graduate Student Oral Exam Committee (2013-2015)
 – Advisory Board Planning Committee (2012)
 – McWilliams Cosmology Center Faculty Search Committee (2007-2013)
 – Graduate Student Admission Committee (2006-2009)
 – Graduate Student Written Exam Committee (2010-2011)
 – McWilliams Cosmology Center Faculty Search Committee (2007-date)
 – McWilliams Cosmology Center Postdoctoral Fellowship Committee (2007-2011)
 – Graduate Students Thesis Committee (Gabriel Altay, Kivanc Sabirli, Colin DeGraf, Yu Feng, 2007-date)
 – Graduate Student Oral Exam Committee (2007)
 – Biological Physics Faculty Search Committee (2006-2007)

•Mellon College of Science & University

– Internal review committee for NSF Major Research Instrumentation Program (MRI) (2016-)
 – Pittsburgh Supercomputer Center (PSC) Director Search Committee (2016-)

- Faculty Senate (2015-)
- MCS Non-Tenure Ad-Hoc Review Committee (2015)
- High Profile meetings with Donors and potential Donors (2007–date)
- University Research Review Committee (2010-2012)
- Review Panel for MCS Mulach Scholarship Selection Committee
- Selection Committee for Churchill and Marshall Foundation Fellowships (2009-2010)
- MCS Non-tenure Ad-Hoc Review Committee (2007)
- Presidents Day, Research Highlight Talk (2010)
- Front Page CMU News Stories, (2007, 2009, 2011, 2015), Invited Feature Article on 'Carnegie Mellon Today', (2008) and For McWilliams Center (2012)

Research Advising

•Graduate Students:

June 2016-date Research Advisor for Aklant Bhowmick, Kuan-Wei Huang, Chris Kervick
Sept 2015-2016 Research Advisor for Dacen Waters
Summer 2014-date Co-advisor of Statistics Student Jisu Kim (2nd year, working with Jessica Cisewski, Alessandro Rinaldo, Larry Wassermann)
Summer 2013-2014 Research Advisor for Evan Tucker (1st year, research fellowship student)
Dec 2012-date Ananth Tenneti (co-advised with Rachel Mandelbaum)
Dec 2012-2014 Research Advisor for Mao-Shen (Terrence) Liu
Sept 2009-2014 Research Advisor for Yu Feng (co-advised with R. Croft, PhD August 2014, Now postdoc at Berkely)
Sept. 2010–Dec. 2010 Grad. Research Fellowship Katie Robbins
August 2009 – August 2010 Research Advisor for Grad. Student Matt Oborski
August 2007 – 2012 Research Advisor for Grad. Student Colin DeGraf, (Postdoctoral Fellowship at Hebrew University, Avishai Dekel)
July 2005–2007 Research Advisor for Grad. Student Shiu Fai (Frankie) Li
December 2005–May 2006 Research Advisor for Graduate Student Prabhanshu Shekhar
2007 – 2009 Suman Bhattacharjee, Suchetana Chatterjee (PITT), (co-advised with Arthur Kosowski, UPITT, now post-doc at Yale)

•Undergraduate Students

Fall 2016– Josh Fuhman (co-advised with Fred Rasio at Northwestern)
Summer 2015-2016 Joanne Hsueh, Joseph Kania
May 2013-August 2014 Samuel Greess
January 2013-May 2013 Andrew Ray
January 2011-May 2011 Physics Undergraduate students: Sarah Benjamin (Astronomy grad. student at Yale)
May 2009-Sept 2009 Joshua Tepper
January 2007–May 2007 Physics Undergraduate students: Nic Volet (Grad Student, Switzerland) , Brian Newman (Astronomy Grad at Cornell)
January 2006–May 2006 Physics Undergraduate students: Hayley Finley (Astronomy grad Student, Paris) , Gregory Peim, Li Yang, Dan Carmody

• Postdoctoral research associates

Sept 2015-2016 Dr Francois Lanusse (partial support)
Sept 2014-2015 Dr Simeon Bird (McWilliams' Fellow)
Sept 2012-2014 Dr Kwang-Ho Park, Urania-Stott Fellow
Sept. 2009–Sept 2012 Dr. Nishikhanta Khandai (Postdoc at Brookhaven National Laboratory with A. Slozar)
Oct 2005–Oct 2007 Dr. Inti Pelupessi (Research Staff, Leiden University) , Dr. Joerg Colberg (half sponsored, now UMass University)