CURRICULUM VITAE ET STUDIORUM

Gabriella De Lucia

Contact Information:

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Education:

- 2004 Doctor Rerum Naturalium, Ludwig-Maximilian Universität, München Thesis title: Evolution of galaxies in clusters Advisors: Prof. S. D. M. White, Dr. G. Kauffmann
- 2000 Laurea in Fisica, University "Federico II", Naples; final grade: 110/110 cum laude Thesis title: Modelli evolutivi di galassie ellittiche a basso redshift Advisors: Prof. M. Capaccioli, Dr. M. Arnaboldi
- 1994 Diploma di maturità scientifica; final grade: 60/60

<u>Positions held</u>:

- 2012-present Researcher (permanent) at INAF Astronomical Observatory of Trieste (OATs)
- $2009\text{-}2014 \hspace{0.1 cm} \text{Senior} \hspace{0.1 cm} \text{Researcher} \hspace{0.1 cm} (\text{``Primo Ricercatore''} \text{fixed term position}) \hspace{0.1 cm} \text{at INAF-OATs}$
- 2004-2009 Long term PostDoctoral Fellowship at the Max–Planck–Institut für Astrophysik (MPA), Garching bei München, Germany
- $\mathbf{2001}\text{-}\mathbf{2004}$ PhD student at MPA
- 2000 Shorth Research contract at the Astronomical Observatory of Capodimonte, Naples, Italy

Honours, distinctions, and Awards:

- 2013 MERAC Prize for the Best Early Career Researcher in Theoretical Astrophysics, awarded by the European Astronomical Society
- **2012** Italian National University Habilitation (Associate Professor)
- 2011 Order of Merit (Officer) of the Italian Republic, awarded by the President of the Italian Republic
- **2008** European Research Council (ERC) Starting Independent Researcher Grant (about 300 proposals funded out of more than 9000 submitted across all research fields $\sim 3\%$ success rate)
- 2007 Zwicky Prize Fellowship (declined)
- 2007 NOVA Fellowship (declined)
- **2005** Honourable mention from the Italian Astronomical Society (*Premio Tacchini*) for the best PhD thesis in 2004
- **2001** PhD fellowship (three years) from the International Max-Planck Research School in Astrophysics. Completion of the School with distinction in 2004.

Main Grants and funding:

- **2015** co-I of the project *Glittering Kaleidoscopes in the sky, the multifaceted nature and role of galaxy clusters,* funded by INAF (PI: M. Nonino), 190 kEUR
- **2014 PI** of the project *Galaxy formation and evolution with the Square Kilometre Array*, funfed by INAF through a PhD fellowship, 56 kEUR

- **2014 PI** of the project *Towards the next generation of galaxy formation models*, funded by the MERAC foundation, 146 kEUR
- 2012 co-I of the project The Universe in a box: multi-scale simulations of the cosmic structures, funded by INAF (PI: G. Murante), 96 kEUR
- 2012 co-I of the project Evolution of cosmic baryns: astrophysical effects and growth of cosmic structure, funded by MIUR (PI: S. Borgani), 266 kEUR
- 2011 PI of the Trieste Research Unit for the project From the dawn of galaxy formation to the peak of the mass assembly, funded by INAF (PI: G. Zamorani), 170 kEUR
- 2009 co-I of the project VIPERS: The large-scale structure and growth rate of the Universe at z~1 from a survey of 100,000 galaxy redshifts funded by INAF (PI: L. Guzzo), 245 kEUR
- 2008 PI of an European Research Council (ERC) Starting Independent Researcher Grant, 750 kEUR

Teaching and Supervising:

- currently supervising two postdocs (L. Xie and F. Fontanot) and one PhD student (A. Zoldan). Postdocs supervised in the past: A. Villalobos, M. Hirschmann, O. Cucciati, U. Maio. PhD students supervised or co-supervised in the past: E. Contini, A. Saro, L. Wang, J. Wang, M.A. Campisi, Q. Guo, M.E. de Rossi
- **2014** Lecturer on *Galaxy formation and evolution* at the Eighth TRR33 Winter School (for PhD students), Passo del Tonale, Italy
- 2012-2013 Lessons on Cosmology for undergraduate students, University of Trieste
- 2012 Lecturer at the Graduate Days in Heidelberg (for PhD students)
- 2009-2010 PhD lectures Formation and Evolution of Galaxies in a hierarchical Universe, SISSA, Trieste
- **2008** PhD lectures on *Theoretical scenarios of galaxy formation*, National PhD School in Astrophysics, Asiago, Italy
- 2006 Lectures on semi-analytic models, MAGPOP Summer School, Budapest, Hungary
- 2005 Workshop on semi-analytic methods, Garching bei München, Germany

Professional Activities:

- 2015 Expert Reviewed for the ERC Starting Grant 2015 call
- 2015 External PhD Examiner for the University of Durham
- 2014 to date Member of the Time Allocation Committee for the telescopes TNG/LBT/REM
- 2013 to date Member (as external expert) of the teachers board of the PhD School in Physics at the University of Trieste
- 2013 Expert Reviewer for the ERC Advanced 2013 call
- 2012 and 2013 Member of the ESO Observing Programmes Committee (periods 91 and 92)
- 2011 and 2012 Expert external reviewer for the Agence Nationale de la Recherche (ANR)
- 2011 External reviewer for the United States-Israel Binational Science Foundation
- **2010** External reviewer for the 2011 FONDECYT (National Fund for Scientific and Technological Development) National Research Funding Competition
- **2010** Member of the Cycle 18 HST review panel
- 2010 Expert external reviewer for the Netherlands Organisation for Scientific Research (NWO)
- **2009** Expert reviewer for the Anne McLaren Fellowship scheme 2009/10 and for the Peter and Patricia Gruber Foundation Fellowship 2009
- **2009** Organizer of the *Group Meeting* (weekly informal group seminar), Astronomical Observatory of Trieste
- 2005 to date Peer Reviewer for Astronomy & Astrophysics and Astrophysical Journal

2005 Reviewer for FWF Austrian Science Fund

2004 to date Peer Reviewer for Monthly Notices of the Royal Astronomical Society

2004-2008 Organizer of the Cosmology Seminar, Max-Planck Institut für Astrophysik

2001-2003 Organizer of the students Journal Club, Max-Planck Institut für Astrophysik

Organization of international conferences and workshops:

- **2015** Member of the Scientific Organizing Committee (SOC) for the conference In the footsteps of galaxies: tracing the evolution of environemtnal effects, Soverato, Italy, September 7-11
- **2015** Member of the SOC for the conference *The Many Pathways of Galaxy Growth*, Prato, Italy, June 22-26
- **2014** Member of the SOC for the conference *Evolving Galaxies in Evolving Environments*, Bologna, Italy, September 5-19
- 2014 Member of the SOC for the IAU Symposium 311 Galaxy Masses as Constraints of Formation Models, Oxford, UK, July 21-25
- **2014** Member of the SOC for the conference *Future Directions in Galaxy Cluster Surveys*, Paris, France, June 23-27
- 2013 Member of the SOC for the conference Tracing Cosmic Evolution with Clusters of Galaxies, Sesto val Pusteria, Italy, July 1-5
- 2013 Co-Chair (with S. Weinmann e A. Muzzin) of the organization of the workshop *What Regulates Galaxy Evolution?*, Leiden, the Netherlands, April 22-26
- **2012 Co-Chair** (with O. Cucciati) of the organizing committee for the conference *The physics of Star* Formation and its Role in Galaxy Evolution, Trieste, Italy, October 16-19
- **2012** Member of the organizing committee for the workshop Interacting Galaxies and Binary Quasars: A Cosmic Rendezvous, Trieste, Italy, April 2-5
- 2010 Member of the SOC for the conference Environment and the Formation of galaxies: 30 years later, Lisbon, Portugal, September 6-10
- **2009** Member of the SOC for the conference Galaxy Clusters in the Early Universe, Pucon, Chile, November 9-12
- **2009 Chair** of the organizing committee for the workshop on *Galaxy Formation*, Sesto val Pusteria, Italy, July 13-17
- **2005 Co-Chair** of the organizing committee of the conference *From Simulations to Surveys*, Ringberg Castle, Germany, June 26-July 1

Selected reviews/talks at International Conferences (last five years):

- **2015** In the footsteps of galaxies: tracing the evolution of environmental effects, Soverato, Italy, September 7-11; **invited review**
- 2015 The Life and Death of Satellite Galaxies, Leiden, the Netherlands, April 28- May 1; invited review
- 2015 The Most Massive Galaxies and their Precursors, Sydney, Australia, February 9-12; invited talk
- **2014** The Universe of digital sky surveys, Naples, Italy, November 25-28; invited review
- 2014 The Life and Times of Galaxies A celebration of Alan Dressler's career, Zion National Park, Utah (USA), September 9-12; invited review
- 2014 Future Directions in Galaxy Cluster Surveys, Paris, France, June 23-27; invited review
- **2014** Multiwavelength surveys: Galaxy Formation and Evolution from the Early Universe to Today, Dubrovnik, Croazia, May 12-16; **invited talk**

- 2013 European Week of Astronomy and Space Science, Turku, Finland, July 8-12; plenary speaker MERAC lecture
- 2012 Growing up at high-z: from proto-clusters to galaxy clusters, Madrid, Spain, September 10-13 Settembre; invited review
- 2011 Surveys & Simulations The Real and the Virtual Universe Annual meeting of the German Astronomical Society, Heidelberg, Germany, September 19-23; invited review
- 2011 Groups and Clusters of Galaxies: Confronting Theory with Observations, Leiden, the Nethrelands, July 25-29; invited talk
- 2011 Fornax, Virgo, Coma et al. stellar systems in nearby high density environments, Garching bei München, Germany, June 27- July 1; invited talk
- **2011** CosmoFirstObjects: International Meeting on Cosmology beyond Redshift $z \sim 3$, Marseille, France, May 3-6; invited review
- 2011 Ringberg Workshop on Galaxy Evolution, Ringberg Castle, Germany, April 17-22; invited talk
- **2010** JENAM Symposium: Environment and the Formation of Galaxies: 30 years later, Lisbon, Portugal, September 6-10; invited review
- 2010 CL J2010: from Massive Galaxy Formation to Dark Energy, Kashiwa, Japan, June 28-July 2; invited review

Selected Seminars and Colloquia (last five years):

- **2015** University of Burdwan, India (via Skype): Theoretical models of galaxy formation and evolution. Latest developments and future directions, June 10
- **2015** Laboratoire d'Astrophysique de Marseille, Marseille, France: Theoretical models of galaxy formation and evolution. Latest developments and future directions, June 5
- 2015 Institut d'Astrophysique de Paris, Paris, France: Elemental abundances in Milky-Way like galaxies from a hierarchical model of galaxy formation, May 21
- 2015 Universitäts-Stenwarte München, Munich, Germany: A hierarchical galaxy formation model latest developments and future directions, March 18
- 2014 INAF Astrophysical Observatory of Arcetri, Florence, Italy: A hierarchical galaxy formation model - latest developments and future directions, October 23
- **2013** Observatoire de la Cote d'Azur, Nice, France: The role of primordial conditions and environmental effects on cluster and group galaxies, June 11
- 2012 Max-Planck-Institut für Astronomie, Heidelberg, Germany: Recent progress and open problems in galaxy formation and evolution, October 11
- 2012 Institute of Astro- and Particle Physics, Innsbruck, Austria: The environmental history of group and cluster galaxies in a ΛCDM Universe, February 27
- **2011** Osservatorio Astronomico di Roma, Roma, Italy: Modelling the formation and evolution of galaxies in hierarchical cosmologies, February 22

<u>Publications</u>:

120 refereed publications (15 as first author) published in main international journals. More than 8800 citations, 13 papers (6 of which as first author and 2 as second author) with more than 100 citations (h-index: 43). Two invited book chapters.