

# 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

### Positions held:

- 2009 to date** Senior Researcher (“Primo Ricercatore” - fixed term position) at INAF - Astronomical Observatory of Trieste.
- 2004-2009** Long term PostDoctoral Fellowship at the Max-Planck-Institut für Astrophysik (MPA), Garching bei München, Germany.
- 2001-2004** Graduate student at MPA.
- 2000** Research contract for tests on the software for reduction of data from the Wide Field Imager 2.2m telescope, and analysis of data from the *Capodimonte Deep Field*. Astronomical Observatory of Capodimonte, Naples, Italy, August 1st - December 15th.

### Fellowships, Grants and Awards:

- 2011** Order of Merit (Officer) of the Italian Republic.
- 2011** PI of the Trieste Research Unit for the project *From the dawn of galaxy formation to the peak of the mass assembly* (national PI: G. Zamorani) funded by INAF.
- 2009** co-I of the project *VIPERS: The large-scale structure and growth rate of the Universe at  $z\sim 1$  from a survey of 100,000 galaxy redshifts* funded by INAF (national PI: G. Guzzo) funded by INAF.
- 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 for the best PhD thesis in 2004 (*Premio Tacchini*).
- 2005** Completion of the *International Max-Planck Research School in Astrophysics* with *distinction*.
- 2001** PhD fellowship (three years) from the *International Max-Planck Research School in Astrophysics*.
- 1999** Grant from the *Istituto Italiano per gli Studi Filosofici* for attending the school *For a critical balance of the Physics in the XX century*, Naples, Italy.

### Teaching and Supervising:

**currently** supervising three postdocs (two positions funded through the ERC grand and one position funded by INAF)

- since 2010 supervising one PhD student (position funded through the ERC grant) and co-supervising other PhD and undergraduate 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 - September 21-27, Asiago, Italy.
- 2007 Co-tutor (with Dr. K. Dolag) of a 5-month visiting student (A. Saro - EARA funding).
- 2006 Co-tutor (with Dr. G. Kauffmann) of a 3-month visiting student (M.E. de Rossi - LENAC funding).
- 2006 Lectures on *semi-analytic models*, MAGPOP Summer School, August 23-25, Budapest, Hungary.
- 2005 Workshop on semi-analytic methods, October 13, Garching bei München, Germany.

### Selected reviews/talks at International Conferences:

- 2011 *Surveys & Simulations - The Real and the Virtual Universe* - Annual meeting of the German Astronomical Society, September 19-23, Heidelberg, Germany; invited plenary speaker
- 2011 *Groups and Clusters of Galaxies: Confronting Theory with Observations*, July 25-29, Leiden, the Netherlands; invited talk
- 2011 *Fornax, Virgo, Coma et al. L stellar systems in nearby high density environments*, June 27-July 1, Garching bei München, Germany; invited talk
- 2011 *CosmoFirstObjects: International Meeting on High-z Cosmology*, May 3-6, Marseille, France; invited talk
- 2011 *2011 Ringberg Workshop on Galaxy Evolution*, April 17-22, Ringberg Castle, Germany; invited talk
- 2010 *Environment and the Formation of Galaxies: 30 years later*, September 6-7, Lisbon, Portugal; invited review
- 2010 *CL J2010: from Massive Galaxy Formation to Dark Energy*, June 28 - July 2, Kashiwa, Japan; invited talk
- 2009 *The Gaseous Evolution of Galaxies*, November 15-18, Ringberg Castle, Germany; invited talk
- 2009 *Harvesting the desert : the Universe between redshift 1 and 3*, June 29 - July 3, Marseille, France; invited review
- 2009 *Galaxy Metabolism: Galaxy Evolution near and far*, June 22-26, Sydney, Australia; invited review
- 2008 *Probing Stellar Populations out to the Distant Universe*, September 7-19, Cefalù, Italy; invited review
- 2007 *Panoramic Views of Galaxy Formation and Evolution*, December 11-16, Hayama, Giappone; invited review
- 2007 *Tracing Cosmic Evolution with Clusters of Galaxies: Six Years Later*, June 25-29, Sesto, Italy; invited review
- 2006 *Workshop on Massive Galaxies over Cosmic Time II*, November 1-3, Tucson, USA; invited talk
- 2006 *Cosmic Frontiers*, July 31 - August 4, University of Durham, UK; invited review
- 2005 *MKI dark matter workshop on substructure*, December, Cambridge, USA; invited talk

### Selected Seminars and Colloquia:

- 2011 Astronomical Observatory of Rome - Rome, Italy: *Modelling the formation and evolution of galaxies in hierarchical cosmologies*, February 22
- 2009 Observatoire de Paris-Meudon, France: *The build-up of the red-sequence in galaxy clusters since  $z=0.8$* , May 6
- 2009 Max-Planck-Institut für Astronomie, Heidelberg, Germany: *Hierarchical models of galaxy formation: recent successes and unsolved problems*, May 26
- 2008 National Radio Astronomy Observatory, Socorro, USA: *Linking theoretical models of structure formation to the observed properties of luminous galaxies*, November 12
- 2008 Max-Planck-Institut für Astrophysik, Garching bei München, Germany: *The Galaxy and its stellar halo: insights on their formation from a hybrid cosmological approach*, May 26

- 2008** Astronomical Observatory of Brera - Milano, Italy: *Studying the connection between theoretical models of structure formation and the observed properties of galaxies*, April 30
- 2007** Max-Planck-Institut für extraterrestrische Physik - Garching bei München, Germany: *Modern theories of galaxy formation: methods, aims, and limits*, November 22
- 2007** Kapteyn Astronomical Institute - Groningen, the Netherlands: *Semi-analytic models as a tool for studying galaxy formation and evolution*, March 14
- 2007** Observatoire de Genève - Switzerland: *The colour-magnitude relation in galaxy clusters from  $z \sim 0.8$  to  $z = 0$* , January 9
- 2006** University of California - Berkeley, USA: *The build-up of the colour-magnitude relation in galaxy clusters since  $z \sim 0.8$* , November 7

### **Professional Activities:**

- 2011** *Invited book chapter* for the new series ‘Planets, Stars and Stellar Systems’ (<http://www.springer.com/astronomy/book/978-90-481-8818-5>)
- 2011** 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** Scientific organization of the workshop *Environment and the Formation of Galaxies: 30 years later*, Lisbon, September 6-10
- 2010** Expert external reviewer for the Netherlands Organisation for Scientific Research (NWO)
- 2009** Scientific organization of the conference *Galaxy Clusters in the Early Universe*, Pucón, Chile, November 9-12
- 2009** Expert reviewer for the Anne McLaren Fellowship scheme 2009/10 and for the Peter and Patricia Gruber Foundation Fellowship 2009
- 2009** Scientific and logistic organization of a workshop on *Galaxy Formation*, Sesto, July 13-17
- 2009** Organizer of the *Group Meeting* (weekly informal group seminar), Astronomical Observatory of Trieste
- 2005** Logistic and scientific organization of the workshop *From Simulations to Surveys*, Ringberg Castle, June 26 - July 1, Germany
- 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

### **Publications:**

74 refereed publications (13 as first author) published in main international journals. More than 4300 citations, 10 papers (6 of which as first author) with more than 100 citations (h-index: 32).