

# CURRICULUM VITAE ET STUDIORUM

## Gabriella De Lucia

### Current Address:

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### Education:

- 2004:** *Doctor Rerum Naturalium*, Ludwig-Maximilians Universität, München  
Thesis title: *Evolution of galaxies in clusters*  
Advisors: Prof. S. D. M. White, Dr. G. Kauffmann
- 2000** *Laurea in Physics*, University “Federico II”, Naples; Final grade: 110/110 *cum laude*  
Thesis title: *Evolutionary models for elliptical galaxies at low redshift*  
Advisors: Prof. M. Capaccioli, Dr. M. Arnaboldi
- 1994** *Diploma di maturità scientifica*; Final grade : 60/60

### Positions:

- 2004 to date** 5-year Postdoctoral Position, Max-Planck Institut für Astrophysik, Garching, Germany
- 2001-2003** Graduate student at the Max-Planck Institut für Astrophysik, Garching, Germany
- 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*. Osservatorio astronomico di Capodimonte, Napoli, Italy, August 1 - December 15.

### Fellowships, Grants and Awards:

- 2008** European Research Council (ERC) *Starting Independent Researcher Grant* (less than 300 proposals funded out of more than 9000 proposals submitted across all research fields)
- 2005** Honourable mention from the Italian Astronomical Society for the best PhD thesis in 2004
- 2004** 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*, Napoli, Italy

### Teaching and Supervising:

- 2008** National PhD School in Astrophysics - September 21-27, Asiago, Italy
- 2007** Co-tutor (joint with Dr. K. Dolag) of a 5-months visiting student (EARA funding)
- 2006** Co-tutor (joint with Dr. G. Kauffmann) of a 3-months visiting student (LENAC funding)
- 2006** MAGPOP Summer School - August 23-25, Budapest, Hungary
- 2005** Workshop on semi-analytic methods - October 13, Garching bei München, Germany

### Conferences:

- 2008** *Probing Stellar Populations out to the Distant Universe*, September 7 - 19, Cefalù, Italy; invited review
- 2008** *IAU Symposium n. 254 – The Galaxy Disk in Cosmological Context*, June 9 - 13, Copenhagen, Denmark; contributed talk
- 2007** *Panoramic Views of Galaxy Formation and Evolution*, December 11 - 16, Hayama, Japan; invited talk

- 2007** *Tracing Cosmic Evolution with Clusters of Galaxies: Six Years Later*, June 25 - 29, Sesto (BZ), Italy; invited review
- 2007** *The Impact of AGN feedback on galaxy formation: theoretical modelling and observational signatures*, May 20 - 26, Ringberg Castle, Germany; invited talk
- 2006** *Workshop on Massive Galaxies over Cosmic Time II*, November 1 - 3, Tucson, USA; invited talk
- 2006** *Cosmic Frontiers*, July 31 - August 4, Durham University, UK; invited talk
- 2006** *Galaxies and Structures through Cosmic Times*, March 26 - 31, Venice, Italy; contributed talk
- 2005** *MKI dark matter workshop on substructure*, December, Cambridge, USA; invited talk
- 2005** *Distant clusters of galaxies*, October 24 - 28, Ringberg Castle, Germany; contributed talk - participation by invitation only
- 2005** *From Simulations to Surveys*, June 26 - July 1, Ringberg Castle, Germany; contributed talk - participation by invitation only
- 2005** *The Origin of the Hubble Sequence*, June 6 - 12, Vulcano Island, Italy; contributed talk
- 2005** *The role of wide and deep multi-wavelength surveys in understanding galaxy evolution*, March 29 - April 1, Ringberg Castle, Germany; contributed talk - participation by invitation only
- 2004** *The Role of Mergers and Feedback in Galaxy Formation*, October 31 - November 6, Ringberg Castle, Germany; contributed talk - participation by invitation only
- 2004** *IAU Colloquium n. 195 – Outskirts of galaxy clusters: intense life in the suburbs*, March 12 - 16, Torino, Italy; contributed talk
- 2003** *Stellar populations 2003*, October 6 - 10, Garching bei München, Germany; poster
- 2003** *Star and structure formation: from first light to the Milky Way*, August 18 - 22, Zurich, Switzerland; poster
- 2003** *Multiwavelength cosmology*, June 17 - 20, Mykonos Island, Greece; poster
- 2000** *XLIV Congresso Nazionale - Società Astronomica Italiana* – April 10 - 15, Roma Monte Porzio, Italy; contributed talk

### Colloquia and Invited Seminars:

- 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, Germany: *The Galaxy and its stellar halo: insights on their formation from a hybrid cosmological approach*, May 26
- 2008** Osservatorio Astronomico di 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 - 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
- 2006** Osservatorio astronomico di Bologna, Italy: *Semi-analytic modelling in the era of wide, deep and multiwavelength surveys*, May 25
- 2006** Max-Planck-Institut für Astrophysik, Garching, Germany: *Studying galaxy formation and evolution with semi-analytic models*, May 22
- 2006** Osservatorio astronomico di Trieste, Italy: *Modelling and observing galaxy clusters up to  $z \sim 1$* , April 26
- 2005** Yale University, USA: *Models and Observations of galaxy clusters*, September 30
- 2005** Osservatorio astronomico di Padova, Italy: *Models and observations of cluster galaxies*, May 4
- 2005** University of Sussex, Great Britain: *A semi-analytic model for the chemical enrichment of the intra-cluster & inter-galactic medium*, April 28

**2005** Osservatorio astronomico di Napoli, Italy: *Models and observations of cluster galaxies*, April 7

**2004** Max-Planck-Institut für ur Astrophysik, Garching, Germany: *Chemical enrichment of the intra-cluster and intergalactic medium in a hierarchical galaxy formation model*, March 1

### **Successful Observational Proposals:**

- *Star formation in the Infall Regions of Intermediate Redshift Clusters*, Spitzer Cycle 5 proposal #50733, G. Rudnick, V. Desai, A. Aragón-Salamanca, B. Poggianti, **G. De Lucia**, C. Halliday, B. Milvang-Jensen, D. Zaritsky, D. Clowe, P. Jablonka, S. Bamford, 28.3 hours (observing mode: MipsScan)
- *The Environmental Dependence of Galaxy Star Formation Rates*, Spitzer Cycle 2 proposal #20389, V. Desai, A. Aragón-Salamanca, P. Best, D. Clowe, J. Dalcanton, **G. De Lucia**, R. Finn, C. Halliday, P. Jablonka, B. Milvang-Jensen, B. Poggianti, G. Rudnick, S. Charlot, D. Zaritsky, 7.4 hours (observing mode: MipsScan)
- *Galaxy star formation rates in the infall regions of a  $z \sim 0.5$  cluster*, (AAT/05A/22), C. Halliday, A. Aragón-Salamanca, P. Best, B. M. Poggianti, D. Zaritsky, B. Milvang-Jensen, R. P. Saglia, **G. De Lucia**, A. von der Linden, 4 nights at AAT/2dF
- *The life cycle of passive cluster galaxies: age variations in low luminosity galaxies in a  $z=0.5$  cluster*, (073.A-0216) B. M. Poggianti, B. Milvang-Jensen, I. Smail, **G. De Lucia**, C. Halliday, D. Zaritsky, 4 nights at VLT/FORS2

### **Professional Activities:**

**2005** Member of the Local Organizing Committee for the conference *From Simulations to Surveys*, Ringberg Castle, 26 June - 1 July, Germany

**from 2005** Peer Reviewer for *Astronomy & Astrophysics* and *Astrophysical Journal*

**from 2005** Reviewer for the FWF Austrian Science Fund

**from 2004** Peer Reviewer for *Monthly Notices of the Royal Astronomical Society*

**2004 to date** Organizer of the *Cosmology Seminar*, Max-Planck Institut für Astrophysik

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