

# 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’ - 5-year 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.

## Fellowship, Grants and Awards:

- 2008** European Research Council (ERC) *Starting Independent Researcher Grant* (less than 300 proposals funded out of more than 9000 submitted across all research fields).
- 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.

## Research Interests:

Theoretical models of galaxy formation and evolution; galaxy formation and evolution as a function of environment; galaxy clusters and cluster galaxies; formation of large scale structure of the Universe.

## Scientific activity:

- 57 papers in major peer reviewed journals (of which 9 as first author, 4 submitted, 6 with more than 100 citations - four of these as first author);
- About 16 invited reviews/talks at international conferences;
- About 20 invited seminars/colloquia;
- Lecturer in three international schools

## **Professional Activities:**

- 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** External reviewer for the Netherlands Organisation for Scientific Research (NWO)
- 2009** 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 to date** 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

## **Selected Publications**

1. *A semi-analytic model comparison - gas cooling and galaxy mergers*,  
**G. De Lucia**, M. Boylan-Kolchin, A. J. Benson, F. Fontanot, P. Monaco, 2010, MNRAS, in press
2. *The many manifestations of downsizing: hierarchical galaxy formation models confront observations*,  
F. Fontanot, **G. De Lucia**, P. Monaco, R. S. Somerville, P. Santini, 2009, MNRAS, 397, 1776qqqqqq
3. *The Galaxy and its stellar halo: insights on their formation from a hybrid cosmological approach*,  
**G. De Lucia** and A. Helmi, MNRAS, 2008, 391, 14
4. *The hierarchical formation of the brightest cluster galaxies*,  
**G. De Lucia** and J. Blaizot, MNRAS, 2007, 375, 2
5. *The build-up of the colour-magnitude relation in galaxy clusters since  $z \sim 0.8$* ,  
**G. De Lucia**, B. M. Poggianti, A. Aragon-Salamanca, S. D. M. White, Z. Zaritsky, D. Clowe, C. Halliday, P. Jablonka and 6 co-authors, 2007, MNRAS, 374, 809
6. *The formation history of elliptical galaxies*,  
**G. De Lucia**, V. Springel, S. D. M. White, D. Croton, G. Kauffmann, MNRAS, 2006, 366, 499
7. *The evolution of the star formation activity in galaxies and its dependence on environment*,  
B. M. Poggianti, A. von der Linden, **G. De Lucia**, V. Desai, L. Simard, C. Halliday, A. Aragón-Salamanca, R. Bower and 11 coauthors, 2006, ApJ, 642, 188
8. *Galaxies and subhaloes in Lambda CDM galaxy clusters*,  
L. Gao, **G. De Lucia**, S. D. M. White, A. Jenkins, 2004, MNRAS, 352, 1
9. *Chemical enrichment of the intracluster and intergalactic medium in a hierarchical galaxy formation model*,  
**G. De Lucia**, G. Kauffmann, S. D. M. White, 2004, MNRAS, 349, 1101
10. *Substructures in Cold Dark Matter Haloes*,  
**G. De Lucia**, G. Kauffmann, V. Springel, S. D. M. White, B. Lanzoni, F. Stoehr, G. Tormen, N. Yoshida, 2004, MNRAS, 348, 333