

# CURRICULUM VITAE ET STUDIORUM

## Lucia Pozzetti

### **Contact Information:**

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### **Education:**

**1987:** High School Degree at "Liceo Scientifico Sabin", Bologna. Score 52/60

**1993:** "Laurea" Degree in Physics at University of Bologna. Score 110/110 cum laude.  
Thesis Title: Evolutionary evidence from blue galaxy counts.  
Advisors: Dr. G. Zamorani, Prof. G. Setti

**1998:** Ph.D. in Astronomy at University of Bologna.  
Thesis Title: Galaxy evolution models from UV to near-IR: comparison with ground-based surveys and with the Hubble Deep Field.  
Advisors: Dr. G. Zamorani, Prof. G. Setti

### **Professional Career:**

**1994:** 5 months European Fellowship (EEC program) at the "Landessternwarte" of Heidelberg (Germany)  
project "Theoretical studies about galaxy counts and galaxy evolution"  
Supervisor: Prof. G. Bruzual

**1994-1997:** 3 years Ph.D. course in Astronomy at the University of Bologna (Italy).  
project "Galaxy evolution models from UV to near-IR: comparison with ground-based surveys and with the Hubble Deep Field"  
Supervisor: Dr. G. Zamorani, Prof. G. Setti

**1995:** 4 months Fellowship at the "Centro de Investigaciones de Astronomia" in Merida (Venezuela)  
project "Theoretical studies about galaxy counts and galaxy evolution"  
Supervisor: Prof. G. Bruzual

**1996-1997:** 9 months graduate student Fellowship at the "Space Telescope Science Institute" in Baltimore (USA) -  
project "Star formation history at high-z in the Hubble Deep Field"  
Supervisor: Dr. P. Madau and Prof. H. Ferguson

**1999-2000:** 2 years CNAA PostDoctoral Fellowship at "Osservatorio Astrofisico di Arcetri" (Firenze, Italy)  
project "The nature of the Extremely Red Galaxies (EROs)"  
Supervisor: Dr. A. Cimatti and Dr. F. Mannucci

**2000-to date:** Researcher Astronomer (staff member) at INAF- Astronomical Observatory of Bologna

### **Research Interests:**

Theoretical and experimental study of galaxy formation and evolution:

\* Galaxy properties: Spectral classifications and evolution; SED fitting from multi-band photometry: Photometric redshift, Stellar Mass, age, SF; High-redshift galaxies: LBGs, EROs, BzK; Ellipticals; Galaxy counts and resolved optical Extragalactic Background Light.

\* Statistical studies: Evolution of Luminosity and Mass Function and Star/Mass Formation History

\* Modeling and comparison: Phenomenological models of galaxy evolution in optical/NIR. Comparison with models and simulation (eg. GIF, GALICS, Millennium)

### **Scientific activity:**

- 124 papers in major peer reviewed journals (in total 6927 citations, 5 papers with more than 200 citations and 22 with more than 100 citations);
- 6 papers as first author (in total 581 citations, 3 papers of these with more than 100 citations);
- 1 invited reviews/talks at international conferences (IAU);

### **Professional Activities:**

**2002-2003:** member of the TAC of of ESO Observing Programmes Committee (OPC): panel A (cosmology)

**1997-to date:** Referee for international Journals (Astronomy & Astrophysics and Astrophysical Journal,

Monthly Notices of the Royal Astronomical Society, ...)

### **Teaching activities:**

\* Several Lectures on galaxy evolution for PhD student in Astronomy at the University of Bologna

\* Co-tutor of several Thesis works to obtain the Master Degree in Astronomy at the University of Bologna:

1-Luca Angeretti:"Effetti di selezione in brillantezza superficiale nella rivelazione di galassie deboli: teoria e confronto con un modello di evoluzione in luminosita" . Universita' degli studi di Bologna - Laurea in Astronomia - Bologna (dal 2000 fino al 2001) [tutor: Prof. Bruno Marano].

2-Giulia Caira:"L'attivita' di formazione stellare in galassie selezionate in banda K fino a  $z \sim 2$ " . Universita' degli studi di Bologna - Laurea in Astronomia - Bologna (dal 2003 fino al 2004) [tutor: Prof. Bruno Marano]

3-Lorenzo Brandi:"Formazione stellare in un campione profondo di galassie selezionate in banda radio" . Universita' degli studi di Bologna - Laurea in Astronomia - Bologna (dal 2003 fino al 2004) [tutor Prof. Bruno Marano]

4-Silvia Dicesare: "Evoluzione cosmologica delle proprieta' spettrali di un campione di galassie "early type" selezionato nella survey zCOSMOS" . Universita' degli studi di Bologna - Laurea in Astronomia - Bologna (dal 2007 fino al 2008) [tutor: Prof. Andrea Cimatti]

5-Jacopo Chevallard: "Evolutionary constraints on early type galaxies from spectrophotometric data" . Universita' degli studi di Bologna - Laurea in Astronomia specialistica - Bologna (2009) [tutor: Prof. Andrea Cimatti]

6-Sirio Belli: "Evolutionary constraints on Mass Function from zCOSMOS-20k data". Universita' degli studi di Bologna - Laurea in Astronomia specialistica - Bologna (2009-todate) [tutor: Prof. Andrea Cimatti]

\* Co-tutor of Ph.D. Thesis:

1- Michele Moresco: "Dark Energ constraints from early type galaxies" (2008-to date) [tutor: Prof. A. Cimatti]

### **Selected Publications:**

1. Pozzetti L., Bruzual G.A., Zamorani G., 1996, MNRAS, 281, 953
2. Pozzetti L., Madau P., Zamorani G., et al. 1998, MNRAS, 298, 1133
3. Madau P., Pozzetti L., Dickinson M., 1998, ApJ, 498, 106
4. Pozzetti L. & Mannucci F., 2000, MNRAS, 317, L17
5. Daddi E., Cimatti A., Pozzetti, L, et al. 2000, A&A, 361, 535
6. Madau P. & Pozzetti L., 2000, MNRAS, 312, L9
7. Cimatti, A.; Pozzetti, L.; Mignoli, M.; et al., 2002, A&A, 391, L1
8. Pozzetti L., Cimatti A., Zamorani G., et al. 2003, A&A, 402, 837
9. Fontana A., Pozzetti L., Donnarumma I., et al. 2004, A&A, 424, 23
10. Cimatti A.; Daddi E.; Renzini A.; ...; Pozzetti L.; et al. 2004, Nature, 430, 184
11. Pozzetti L., Bolzonella M., Lamareille F., et al. 2007, A&A, 474, 443
12. Cimatti A.; Cassata P.; Pozzetti L., et al., 2008, A&A, 482, 21
13. Pozzetti L., Bolzonella M., Zucca E., et al., 2010, A&A (in press) ; arXiv0907.5416