

Eros Vanzella

Curriculum Vitae

First name: Eros
Last name: Vanzella
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Position: Researcher
Place of birth: Vittorio Veneto (Italy)
Date of birth: September 12, 1973
Citizenship: Italian
Marital status: Not married
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Education

PhD in Astronomy, University of Padua (Italy) *Sept. 2000 - Feb. 2004*

Dissertation:

“Probing the Universe with Deep Fields”

Supervisors: Prof. S. Cristiani, Dr. G. Tormen

Laurea Degree in Astronomy, University of Padua (Italy) *Sept. 1992 - Dec. 1999*

Dissertation:

“Photometric Redshifts with Neural Networks”

Supervisor: Prof. S. Cristiani

Advisor: Prof. G. Fasano

Employment history

Researcher at the National Institute of Astrophysics, Trieste Astronomical Observatory

Interests: Galaxy formation and evolution – Observational cosmology

present

Postdoc INAF (National Institute of Astrophysics)

at the Trieste Astronomical Observatory:

Jan. 2006 - Jan. 2008

Postdoc at the Trieste Astronomical Observatory:

“Astrophysics of the primeval galaxies”

Sept. 2004 - August 2005

Research assistant at the Astronomy Department, University of Padua:

“The high redshift Universe: from HST and VLT to NGST”

Supervisors: Prof. L. Moscardini, Prof. S. Cristiani

June 2000 - May 2004

Studentship at the European Southern Observatory (ESO)

Supervisors: Prof. S. D’Odorico, Prof. S. Cristiani

Sept. 2001 - Sept. 2003

International Visits/Collaborations

• European Southern Observatory:

“Calibration tests of Laser frequency comb on X-shooter”

Collaboration with Dr. L. Pasquini and the CODEX team

Oct. 2008

- Visitor at the Geneva Astronomical Observatory:
 “Simulation of QSO and Laser frequency comb spectra”
 Collaboration with Dr. F. Pepe and the CODEX team *Nov. 2007*
- Space Telescope Science Institute (STScI):
 “*Analysis of spectral properties of LBGs in the GOODS fields*”
 Collaboration with Prof. M. Giavalisco, and the GOODS team *Oct. - Nov. 2006*
- Cerro Paranal Observatory (VLT):
 “*The Great Observatories Origins Deep Survey: ESO Public Spectroscopic Observations of the Spitzer Legacy/HST Treasury/CDF-South*”
 P74, six nights (visitor mode) *Dec. 2005*
- European Southern Observatory:
 “*GOODS FORS2 Spectroscopy data reduction and analysis*”
 Collaboration with Dr. R. Fosbury, L. da Costa and P. Rosati *June - August 2004*
- European Southern Observatory:
 “*Photometric redshifts with neural networks*”
 Collaboration with Prof. S. Cristiani *Feb. - July 2001*
- European Southern Observatory:
 “*Multi Object Spectroscopy of faint galaxies*”
 Collaboration with Prof. S. D’Odorico *May - July 1999*

Membership of international scientific collaborations

- CANDELS** project
 (Cosmic Assembly Near Infra-red Deep Extragalactic Legacy Survey). *2010 - present*
 Probe the galactic evolution from $z=8$ to 1.5 and test for evolution in the properties of Type Ia supernovae to $z\sim 2$
- GOODS** project (The Great Observatories Origins Deep Survey). *2002 - present*
 (Deep multi-wavelength and spectroscopic surveys).
- CODEX** experiment (COsmological Dynamics EXperiment). *2004 - present*
 A Concept Study of an instrument for the E-ELT telescope for the measure of the time variation of the cosmological redshift.
 Participation in the Science Work Package.
- WINGS** project (Wide-field Imaging Nearby Galaxy-cluster Survey). *2006 - present*
 Contribution in the development of an automated tool for the morphological classification of galaxies based on learning systems (neural networks).

Refereeing

Referee for papers in A&A., MNRAS, and ApJ.

Author on 45 referee papers, H index 26, total citations 2000

Programming Language and Data analysis techniques

Program Languages: C, Advanced Bash-Scripting, Fortran, Vbasic, Pascal

Operating Systems: Linux, Unix, Windows

Specific software: IRAF, MIDAS, SExtractor (image-segmentation, photometry), Supermongo, Matlab, Mathematica, IDL

Feed-forward Neural Networks for data processing: Classifiers, Pattern Recognition, Principal Component Analysis, clustering and fitting of data.