

SIMONE BIANCHI

Curriculum vitae

Personal details

Date of birth: October 4, 1969 **Address:** INAF/Osservatorio Astrofisico di Arcetri, Largo Enrico Fermi 5, 50125 Firenze, Italia.
Place of birth: Firenze (Italy)
Nationality: Italian **tel:** +39 055 2752247;
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Career & Education

- 12/2001** Research Astronomer at the Osservatorio Astrofisico di Arcetri of the Istituto Nazionale di Astrofisica (INAF); formerly (till 2008) the Istituto di Radioastronomia - Section of Firenze (IRA-Fi) of INAF; formerly (till 2003), IRA-Fi of the Italian National Research Council (CNR); formerly (till 2001), Centro per l'Astronomia Infrarossa e lo Studio del Mezzo Interstellare (CAISMI) of CNR.
- 9/2000** Postdoctoral position in the Research Training Network of the European Commission: *The Physics of the Intergalactic Medium*. European Southern Observatory & Max-Planck-Institut für Astrophysik, Garching bei München, Germany. Held till 3/2002.
- 11/1999** Postdoctoral position in the *ISO post-operation phase* project. Max-Planck-Institut für Astronomie, Heidelberg, Germany. Held till 6/2000.
- 11/1999** *PhD in Astronomy*, Cardiff University, UK;
thesis: Modelling the far-infrared emission from spiral galaxies;
supervisor: Dr J. I. Davies; **examiners:** Dr A. Whitworth; Dr R. Ivison.
- 3/1995** *Laurea in Fisica* (Degree in Physics), Università degli Studi di Firenze, Italy;
thesis: Estinzione e polarizzazione nelle galassie a spirale (Extinction and polarisation in spiral galaxies); **supervisor:** Dr C. Giovanardi.

Professional experience

12 contributed talks and 6 invited talks at international conferences.

Peer reviewer for international scientific journals (MNRAS, A&A, ApJ, PASJ) and for SCUBA/JCMT observation proposals;

Observer in 14 observational campaigns at JCMT and SEST (submm), INT (Optical), TNG (NIR), VLT (UV spectroscopy), IRAM 30m (Radio spectroscopy). PI in 6 of these campaigns.

Grant from the European Science Foundation to organize the Exploratory Workshop: *Tracing Dust in Spiral Galaxies: radiative transfer studies in the dawn of a new generation of observing facilities*, 2007.

CoI in the Herschel Open Time Key Project: *HeViCS: The Herschel Virgo Cluster Survey*.

Partecipation to the outreach activities of the Arcetri Observatory.

Curator of the collection of historical instruments of the Arcetri Observatory.

Scientific interests:

Radiative transfer modelling;
extinction and emission properties of dust;
dust content and energy balance in spiral galaxies;
formation and evolution of dust grains;
Wilhelm Tempel and the early history of the Arcetri Observatory.

Publications:

Author of 65 papers, 45 of which in refereed journals (26 in A&A, 10 in MNRAS, 5 in ApJ/ApJL, APJS, 2 in AJ, 1 in Nature, 1 in JAHH). Here a selection of refereed papers:

- [Bianchi S.](#), Ferrara A., Giovanardi C., *Monte Carlo Simulation of dusty spiral galaxies: Extinction and polarization properties*, 1996, *Astrophysical Journal*, 465, 127.
- [Bianchi S.](#), Alton P. B., Davies J. I., *Dust Emissivity in the Far-Infrared*, 1999, *Astronomy and Astrophysics*, 344, L1.
- [Bianchi S.](#), Ferrara A., Davies J. I., Alton P., *Effects of Clumping on the Observed Properties of Dusty Galaxies*, 2000, *Mon. Not. R. Astron. Soc.*, 311, 601.
- [Bianchi S.](#), Davies J. I., Alton P. B., *Monte Carlo predictions of Far-Infrared emission from spiral galaxies*, 2000, *Astronomy and Astrophysics*, 359, 65.
- [Bianchi S.](#), Cristiani S., Kim T.-S., *The contribution of galaxies to the UV ionising background and the evolution of the Lyman forest*, 2001, *Astronomy and Astrophysics*, 376, 1.
- [Bianchi S.](#), Gonçalves J., Albrecht M., Caselli P., Chini R., Galli D., Walmsley M., *Dust emissivity in the Submm/Mm: SCUBA and SIMBA observations of Barnard 68*, 2003, *Astronomy and Astrophysics*, 399, L43.
- Maiolino R., Schneider R., Oliva E., [Bianchi S.](#), Ferrara A., Mannucci F., Pedani M., Roca Sogorb M., *A supernova origin for dust in a high-redshift quasar*, 2004, *Nature*, 431, 533.
- [Bianchi S.](#), Ferrara A., *Intergalactic medium metal enrichment through dust sputtering*, 2005, *Mon. Not. R. Astron. Soc.*, 358, 379.
- [Bianchi S.](#), Schneider R., *Dust formation and survival in supernova ejecta*, 2007, *Mon. Not. R. Astron. Soc.*, 378, 973.
- [Bianchi S.](#), *The dust distribution in edge-on galaxies. Radiative transfer fits of V and K'-band images*, 2007, *Astronomy and Astrophysics*, 471, 765.
- [Bianchi S.](#), *Dust Extinction and Emission in a Clumpy Galactic Disk. An Application of the Radiative Transfer Code TRADING*, 2008, *Astronomy and Astrophysics*, 490, 461.
- Davies J., Baes M., Bendo G. J., [Bianchi S.](#), + other 26 authors, *The Herschel Virgo Cluster Survey: I. Luminosity functions*, 2010, *Astronomy and Astrophysics*, Herschel Special Issue, in press.
- [Bianchi S.](#), Gasperini A., Galli D., Palla F., Brenni P., Giatti A., 2010, *Wilhelm Tempel and his 10.8 cm Steinheil telescope*, *Journal of Astronomical History and Heritage*, Vol. 13, N. 1, p. 43 (refereed).