

Roberto Silvotti – *Curriculum Vitae*

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Education

- 1991 (July): Degree in Astronomy at the Bologna University (110/110 “*Summa cum laude*”); supervisor Prof. C. Bartolini, internal referee Prof. A. Renzini.
- 1995 (November): PhD in Astronomy at the Bologna University; supervisor Prof. C. Bartolini, co-supervisors Dr. Letizia Stanghellini and Dr. Frank Pijpers.
- Known languages: italian, english, french

Training periods and professional experience

- * 1983-1987: [non scientific position: technical designer in a company.]
- * 1988-1996: [non scientific position: teacher in mathematics and physics in various italian high schools.]
- * 1994 (April-July): training period on non-adiabatic pulsation models at the Uppsala Astronomical Observatory, Sweden.
- * 1995 (July): advanced school on “*Stellar Seismology with the Whole Earth Telescope*” at the Iowa State University, Ames.
- * 1996-1999: post-doc position at the Osservatorio Astronomico di Capodimonte (INAF–OAC), Napoli.
- * 1999-2003: researcher (4 years contract) at INAF–OAC, Napoli.
- * 2003-2009: researcher (staff member) at INAF–OAC, Napoli.
- * since 2009: researcher (staff member) at INAF–OATo, Pino Torinese.

Research topics

- Late-stage stellar evolution: horizontal branch stars and white dwarfs
- Stellar pulsation
- Asteroseismology of evolved compact pulsators, hot subdwarf B and white dwarfs
- Extra-solar planets
- Cataclysmic variables
- Stellar populations
- Optical, UV and X-ray photometry and spectroscopy
- Time-series photometry: frequency analysis
- Wide Field Imaging

Successful proposals and observing experience

Runs at various major observing facilities in La Palma, Canary Islands (Nordic Optical Telescope 2.5m, Telescopio Nazionale Galileo 3.6m, William Herschel 4.2m); at the European Southern Observatory in Chile (2.2m, NTT 3.5m, 3.6m and VLT 8.2m); in Russia (SAO 6m); plus several runs at small telescopes, in particular at the Loiano 1.5m telescope near Bologna.

Teaching experience

- * 14 March 2008: external referee for the PhD thesis of Silvia Catalan Ruiz on “Testing the Initial-Final Mass Relationship of White Dwarfs” at the Universitat Politècnica de Catalunya (Barcelona).
- * 15 September 2008: external referee for the PhD thesis of Valérie Van Grootel on “Etude des étoiles de la branche horizontale extrême par l’astérosismologie” at the Université Toulouse III - Paul Sabatier (Toulouse).
- * March 2009: co-supervisor of the Degree thesis in Physics of Paolo de Pascale on “Studi di fattibilità per la ricerca di transienti astrometrici e fotometrici con VST” at the Federico II University (Napoli).

Astronomical Societies and Networks Membership

- Since 1996: member of the Whole Earth Telescope (<http://www.physics.udel.edu/darc/wet/index.html>).
- Since 2003: member of the International Astronomical Union.
- Since 2005: member of the HELAS european consortium for helio-asteroseismology (<http://www.helas-eu.org/>).
- Since 2007: member of the Kepler Asteroseismic Science Consortium (KASC) for asteroseismic analysis of the Kepler data (<http://astro.phys.au.dk/KASC/>).

Meeting Organization and Project Coordination

- * 1997-2000: Responsible for the realization of the TTCP three channel photometer, still available at the Loiano Observatory.
- 2001 (September 10-14, Munich): SOC member of the Mini-Symposium on “Hot Subdwarfs and White Dwarfs” at the meeting “JENAM 2001”.
- 2002 (June 20–24, Naples): co-Chair of the SOC of the NATO Advanced Research Workshop on White Dwarfs, as well as local organiser of the meeting.
- 2004 (July 19–23, Kiel): SOC member of the 14th European Workshop on White Dwarfs.
- 2006 (August 7–11, Leicester): SOC member of the 15th European Workshop on White Dwarfs.
- * 2002-2009: coordinator of the italian node of Astro-Wise in Napoli.
Astro-Wise (<http://www.astro-wise.org>) is an european consortium (funded by the EU FP5 contract HPRI-CT-2001-50029) for the realization and maintenance of an integrated multi-node system to reduce, analyze and store wide-field imaging data, particularly from VST/OmegaCAM (<http://vstportal.oacn.inaf.it/>).
- * Since 2008: scientific co-I of the 2nd generation VLT instrument ULTRAPHOT (PI F. Roques, LESIA - Paris Observatory).
- * Since March 2009: chair of the Kepler-KASC sub-WG on “Analysis of phase variations and long term variations in frequencies for compact pulsators” (Compact Pulsator WG chair Steve Kawaler).

- 2010 (August 11–14, Bamberg): SOC member of the Conference on “Planetary Systems beyond the Main Sequence”.
- 2010 (August 16–20, Tübingen): SOC member of the 17th European Workshop on White Dwarfs.

Publications

- Refereed articles (from ADS): 59 papers published in A&A, Nature, ApJ, MNRAS and other journals.
- Proceedings and non-refereed articles (from ADS): 46 papers.
- Books: co-editor of the volume “*White Dwarfs*”, Kluwer Academic Publishers, NATO Science Series II - Mathematics, Physics and Chemistry, vol.105, 2003.
- Referee reports: referee for ApJ, MNRAS, Nature, A&A.
- Press-releases: Nature and INAF press releases.
- Public outreach: author of several articles and interviews in various national and international media, most of them related to the discovery of V391 Pegasi, the 1st post-RGB planetary system (Silvotti et al. 2007, Nature 449 189). Articles and interviews appeared on more than 70 international media, such as the New York Times, the BBC, Scientific American, National Geographic, Economist, Figaro, Telegraph, Die Welt, Corriere della Sera, RAI radio3, and many others.

The V391 Peg system has been selected for the cover of:

- “l’Astronomia” (the main italian journal of popular astronomy), issue of December 2007;
- “Astronomi” (journal of the Norwegian Astronomical Society), issue of January 2008;
- “Astronomische Nachrichten”, volume 331, issue 5, June 2010.