

Serena Nobili

Sandhamnsgatan 21
115 40 Stockholm, Sweden
Tel. 073 7521422 · serena@physto.se
Birth: 21/06/1971, Rome (Italy)

PROFESSIONAL PROFILE

- Strong **communication** and teaching skills
- **Team working** attitude
- **Results-driven** working aptitude
- Strong initiative and proven **problem-solving** skills
- Trained in identifying and learning new techniques
- Highly trainable and self motivated
- Statistical data analysis

WORK EXPERIENCE

- **Oct 2005-Jun 2008:** Post-Doctorate Fellowship at Stockholm University
- **Dec 2005-Jan 2007:** Period of absence due to maternity leave
- **Apr 2004-Sept 2005:** Post-Doctorate Fellowship at LPNHE - IN2P3 - CNRS - University of Paris VI and Paris VII
- **Jan 2000-Apr 2004:** Ph.D. Student at Stockholm University
- **Jan 1999- Dec 1999:** Teacher for undergraduate students for the company Universitalia based in Rome
- **Jan 1990- Dec 1999:** Worked as freelance photographer, video editor and scientific journalist in Rome

COMPUTER SKILLS

- Operating Systems: Mac OsX, Windows, Linux
- Software: Keynote, Power Point, Adobe Illustrator, Adobe Photoshop, word processors, Latex
- Web communication: Wordpress, Web 2.0, SEO techniques, HTML, PHP (basic)

EDUCATION

- **2008:** University Pedagogy 1 course, Stockholm University
- **2004:** Ph.D. in Physics at Stockholm University
- **1998:** Master Degree in Physics, University of Rome “La Sapienza”
- **1990:** Scientific high school diploma (lycée) in Rome, Italy

LANGUAGES

- Italian: Mother tongue
- English: Fluent
- Swedish: Very good
- French: Good

SCHOLARSHIPS AND PRICES

- The Stiftelsen C.M. Lericci scholarship, 2001
- The Stiftelsen Hierta-Retzius scholarship, 2000
- Scholarship from the International School of Space Science, L'Aquila, Italy, 1998

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PEER-REVIEWED JOURNAL ARTICLES

- [Goobar et al.(2008)] Goobar, A. et al. 2008. Near-IR Search for Lensed Supernovae Behind Galaxy Clusters - II. First Detection and Future Prospects. e-print archive arXiv:0810.4932 [astro-ph], 27 October 2008
- [Nobili and Goobar(2008)] Nobili, S., Goobar, A. 2008. The colour-lightcurve shape relation of Type Ia supernovae and the reddening law. *Astronomy and Astrophysics* 487 (2008) 19-32, August 2008.
- [Blomqvist, Mörtzell, and Nobili(2008)] Michael Blomqvist, Edvard Mörtzell, Serena Nobili, 2008. Probing Dark Energy Inhomogeneities with Supernovae. *Journal of Cosmology and Astroparticle Physics* 06 (2008) 027, 23 June 2008
- [Rubin et al.(2008)] Rubin, D. et al 2008, Looking Beyond Lambda with the Union Supernova Compilation. e-print archive arXiv:0807.1108 [astro-ph], 7 July 2008
- [Kowalski et al.(2008)] Kowalski, M. et al. 2008. Improved Cosmological Constraints from New, Old and Combined Supernova Datasets. *Astrophysical Journal* 686 (2008) 749-778, 20 October 2008
- [Garavini et al.(2007)] Garavini, G., and 13 colleagues 2007. ESC observations of SN 2005cf. II. Optical spectroscopy and the high-velocity features. *Astronomy and Astrophysics* 471, 527-535.
- [Garavini et al.(2007)] Garavini, G., and 46 colleagues 2007. Quantitative comparison between type Ia supernova spectra at low and high redshifts: a case study. *Astronomy and Astrophysics* 470, 411-424.
- [Stanishev et al.(2007)] Stanishev, V., and 31 colleagues 2007. SN 2003du: 480 days in the life of a normal type Ia supernova. *Astronomy and Astrophysics* 469, 645-661.
- [Pastorello et al.(2007)] Pastorello, A., and 22 colleagues 2007. ESC observations of SN 2005cf - I. Photometric evolution of a normal Type Ia supernova. *Monthly Notices of the Royal Astronomical Society* 161.

- [Balland et al.(2007)] Balland, C., and 18 colleagues 2007. Spectroscopic observations of eight supernovae at intermediate redshift. *Astronomy and Astrophysics* 464, 827-836.
- [Altavilla et al.(2006)] Altavilla, G., and 19 colleagues 2006. Type Ia SNe along redshift: the R(Si II) ratio and the expansion velocities in intermediate z supernovae. *ArXiv Astrophysics e-prints arXiv:astro-ph/0610143*.
- [Conley et al.(2006)] Conley, A., and 28 colleagues 2006. Measurement of Ω_M and Ω_Λ from a Blind Analysis of Type Ia Supernovae with CMAGIC: Using Color Information to Verify the Acceleration of the Universe. *Astrophysical Journal* 644, 1-20.
- [Hook et al.(2005)] Hook, I. M., and 34 colleagues 2005. Spectra of High-Redshift Type Ia Supernovae and a Comparison with Their Low-Redshift Counterparts. *Astronomical Journal* 130, 2788-2803.
- [Guy et al.(2005)] Guy, J., Astier, P., Nobili, S., Regnault, N., Pain, R. 2005. SALT: a spectral adaptive light curve template for type Ia supernovae. *Astronomy and Astrophysics* 443, 781-791.
- [Garavini et al.(2005)] Garavini, G., and 57 colleagues 2005. Spectroscopic Observations and Analysis of the Unusual Type Ia SN 1999ac. *Astronomical Journal* 130, 2278-2292.
- [Nobili et al.(2005)] Nobili, S., and 36 colleagues 2005. Restframe I-band Hubble diagram for type Ia supernovae up to redshift $z \sim 0.5$. *Astronomy and Astrophysics* 437, 789-804.
- [Mazzali et al.(2005)] Mazzali, P. A., and 28 colleagues 2005. High-Velocity Features: A Ubiquitous Property of Type Ia Supernovae. *Astrophysical Journal* 623, L37-L40.
- [Lidman et al.(2005)] Lidman, C., and 47 colleagues 2005. Spectroscopic confirmation of high-redshift supernovae with the ESO VLT.. *Astronomy and Astrophysics* 430, 843-851.
- [Blanc et al.(2004)] Blanc, G., and 60 colleagues 2004. Type Ia supernova rate at a redshift of ~ 0.1 . *Astronomy and Astrophysics* 423, 881-894.
- [Garavini et al.(2004)] Garavini, G., and 57 colleagues 2004. Spectroscopic Observations and Analysis of the Peculiar SN 1999aa. *Astronomical Journal* 128, 387-404.
- [Knop et al.(2003)] Knop, R. A., and 47 colleagues 2003. New Constraints on Ω_M , Ω_Λ and w from an Independent Set of 11 High-Redshift Supernovae Observed with the Hubble Space Telescope. *Astrophysical Journal* 598, 102-137.

- [Nobili et al.(2003)] Nobili, S., Goobar, A., Knop, R., Nugent, P. 2003. The intrinsic colour dispersion in Type Ia supernovae. *Astronomy and Astrophysics* 404, 901-912.
- [Sullivan et al.(2003)] Sullivan, M., and 43 colleagues 2003. The Hubble diagram of type Ia supernovae as a function of host galaxy morphology. *Monthly Notices of the Royal Astronomical Society* 340, 1057-1075.
- [De Petris et al.(1999)] De Petris, M., and 14 colleagues 1999. A ground-based experiment for CMBR anisotropy observations: MITO. *New Astronomy Review* 43, 297-315.

CONFERENCE CONTRIBUTIONS

- [Nobili and The Supernova Cosmology Project(2005)] Nobili, S., The Supernova Cosmology Project 2005. Restframe I-band Hubble Diagram for Type Ia Supernovae up to Redshift $z \sim 0.5$. 1604-2004: Supernovae as Cosmological Lighthouses 342, 253.
- [Kowalski et al.(2004)] Kowalski, M., and 61 colleagues 2004. A Set of Nearby SNe Ia Lightcurves. *Bulletin of the American Astronomical Society* 36, 1466.
- [Fadeyev et al.(2004)] Fadeyev, V., and 38 colleagues 2004. Cosmological Constraints from the First Supernova Discovered above Redshift of One.. *Bulletin of the American Astronomical Society* 36, 1459.
- [Conley et al.(2003)] Conley, A., and 51 colleagues 2003. Cosmology with CMAGIC. *Bulletin of the American Astronomical Society* 35, 1335.
- [Yasuda et al.(2003)] Yasuda, N., and 52 colleagues 2003. Very High Redshift Supernova Discoveries with Subaru/Suprime-Cam. *Bulletin of the American Astronomical Society* 35, 1335.
- [Raux et al.(2003)] Raux, J., and 52 colleagues 2003. Results from Recent very High-redshift ($z \sim 1$) Type Ia Supernovae Searches. *Bulletin of the American Astronomical Society* 35, 1335.
- [Smith et al.(2003)] Smith, E., and 52 colleagues 2003. Optical Spectroscopy of High-Redshift Supernovae Used in Determination of Cosmological Parameters. *Bulletin of the American Astronomical Society* 35, 1277.
- [Quimby et al.(2002)] Quimby, R., and 43 colleagues 2002. The Host Galaxies of Type Ia Supernovae at High Redshift. *Bulletin of the American Astronomical Society* 34, 1143.

- [Garavini et al.(2001)] Garavini, G., and 39 colleagues 2001. Accurate multi-epoch optical spectroscopy of 17 low- z Type Ia Supernovae. *Bulletin of the American Astronomical Society* 33, 1428.
- [Regnault et al.(2001)] Regnault, N., and 39 colleagues 2001. A New Set of Nearby SNe Ia Lightcurves. *Bulletin of the American Astronomical Society* 33, 1427.
- [Nugent et al.(2001)] Nugent, P., and 46 colleagues 2001. Interpretation of High- z SN Spectra. *Bulletin of the American Astronomical Society* 33, 1427.
- [Ellis et al.(2001)] Ellis, R. S., and 47 colleagues 2001. Verifying the Use of Type Ia Supernovae as Probes of the Cosmic Expansion. *Bulletin of the American Astronomical Society* 33, 1347.
- [Pain et al.(2001)] Pain, R., and 49 colleagues 2001. The Distant Type Ia Supernovae Rate. *Bulletin of the American Astronomical Society* 33, 1346.
- [Schahmaneche et al.(2001)] Schahmaneche, K., and 50 colleagues 2001. Results from Recent High-redshift Type Ia Supernovae Searches. *Bulletin of the American Astronomical Society* 33, 1333.
- [Nobili et al.(2001)] Nobili, S., and 46 colleagues 2001. Supernova Type Ia Evolution and Grey Dust: Ground and Spaced Based Follow up of a Type Ia Supernova at $z=0.54$. *Bulletin of the American Astronomical Society* 33, 1333.
- [Burns et al.(2001)] Burns, M. S., and 46 colleagues 2001. NICMOS Photometry of High Redshift Supernovae. *Bulletin of the American Astronomical Society* 33, 1333.
- [Knop et al.(2001)] Knop, R. A., and 46 colleagues 2001. Ω_M and Ω_Λ from 11 HST-Observed Supernovae at $z=0.36-0.86$. *Bulletin of the American Astronomical Society* 33, 1332.