Curriculum Vitae

Name: Giuseppe
Surname: Altavilla

Place and date of birth: Manduria (Taranto), Feb. 4^{th} 1974
Nationality: Italian
Work address: Space Science Data Center - ASI
Via del Politecnico, s.n.c.
00133 Roma
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Via Frascati 33
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Research activity:

I have been involved in the ESA mission Gaia (http://www.cosmos.esa.int/web/gaia/home) since 2006, when I entered the *Data Processing and Analysis Consortium* (DPAC), joining the team, led by E. Pancino, in charge of building a suitable grid of spectrophotometric standard stars for the satellite.
In 2017 I moved to the SSDC-ASI team, lead by P. Marrese. SSDC hosts a copy of the Gaia intermediate data releases and will host the final catalogue too. I currently contribute to the SSDC effort aimed at developing access, data extraction, data mining tools to enable the astronomical community to handle and fully exploit the scientific potential of this enormous archive.
From 2006 to 2016 I contributed to the building of the Gaia spectrophotometric standard stars grid writing proposals to get observational time (we got about 500 nights in 10 years), coordinating the observational campaigns, performing observations and documenting all my work. I contributed to the development of observational and data

reduction protocols and to the development of semi-automatic pipelines, mainly in IRAF, for the data reduction, analysis and quality checks, crucial to obtain the required precision and accuracy. I contributed to the data logging and archiving gaining experience in Wiki pages and in database design. I wrote tools to facilitate the observations (e.g. a web interface for computing the parallactic angle for any observational site, see http://yoda.bo.astro.it/wiki/Tools/GA/parang2.html). I was involved in the team management as deputy of E. Pancino and I am CU5 representative in the *Ground-Based Observations for Gaia* (GBOG).

My main scientific interests are focused on Supernovae. During my PhD I was involved in a Supernova search at intermediate redshift with WFI@ESO2.2m, and I also worked on the absolute calibration of type Ia SNe. The main result of my thesis was the first estimate of the Core Collapse SNe rate beyond the local Universe, at $z \sim 0.3$. One of my major contribution to the SN search programme was the development of the software (based on IRAF and widely using external packages such as SExtractor and ISIS) used to to perform the SN search, as well as the artificial star experiments performed to check and improve the search efficiency (see http://www.bo.astro.it/∼altavilla/FTP/phdtesi.ps for details).

As a postdoc I moved to Barcelona (Spain) within the European RTN project "The Physics of Type Ia Supernova Explosions" (http://www.mpa-garching.mpg.de/∼rtn/). My main goal was the study of the photometric and spectroscopic evolution of SN 2004dt, a nearby type Ia SN. The observational data of this peculiar supernova, which in some absorption lines of its early spectra showed one of the highest degree of polarization ever measured in any SN Ia, were consistent with a clumpy structure of the outermost layers (in fact modeling of the spectra based on standard density profiles of the ejecta failed to reproduce the observed features).

As a Gaia DPAC member I tried to join my interests in SNe and Gaia participating to the Gaia Science Alerts Working Group (focused on the transients detected by Gaia, http://www.ast.cam.ac.uk/ioa/wikis/gsawgwiki), contributing to the organization of the 3^{rd} Gaia Science Alerts Workshop, to the Gaia science alerts preparatory work (see CBET 2941, Altavilla et al. 2012, Ap&SS, 341, 163 and http://www.media.inaf.it/2011/12/08/le-supernovae-di-gaia/) and to the current work based on Gaia data (see Campbell et al. 2015, MNRAS, 452, 1060 and http://davide2.bo.astro.it/?p=5996).

Recently I also focused my attention on the optical tracking and characterization of artificial satellites (using Gaia as a test case, see Buzzoni, Altavilla, Galleti 2016, AdSpR, 57, 1515B) and on the Space Situational Awareness in general.

I also contribute to outreach activities organized by my home institution and/or within the Gaia project (see as an example my participation to the Gaia Live in School event in Bologna: https://www.youtube.com/watch?v=y82l_8wSFYg, or my participation to the 2017 European Researcher's Night: https://www.facebook.com/pg/SSDC.ASI/posts).

Career & Education

Jan. 2017 → Dec. 2020
Research position within the ESA mission Gaia:
developing access, data extraction, data mining tools
at SSDC-ASI
INAF - Astronomical Observatory of Roma (Monte Porzio Catone)
Italy

Feb. 2015 → Jan. 2017
Research position within the ESA mission Gaia:
"Photometric and spectroscopic ground based
and space observations for the absolute calibration
of the GAIA spectrophotometric system
and scientific applications in stellar astrophysics"
INAF - Astronomical Observatory of Bologna
Italy

Working group representative in Ground-Based Observations for Gaia (GBOG) - Gaia DPAC (Data Processing and Analysis Consortium) - since Sept. 17, 2014

Feb. 2010 - Jan. 2015
Research position within the ESA mission Gaia:
"Photometric and spectroscopic ground based
and space observations for the absolute calibration
of the GAIA spectrophotometric system
and scientific applications in stellar astrophysics"
INAF - Astronomical Observatory of Bologna
Italy

Aug. 2006 - Jan. 2010
Grant within the ESA mission Gaia:
"Absolute calibration of the GAIA
spectrophotometric system"
INAF - Astronomical Observatory of Bologna

Italy

Jun. 2004 - Jul. 2006

Post-Doctoral position within the RTN project
"A European Research Training network:
The Physics of Type Ia Supernova Explosions"
of the European community,
Department of Astronomy, University of Barcelona
Spain

Sept. 2000 - **Feb. 2004**

Doctor Philosophiae (PhD)
Feb. 20^{th}, 2004 - University of Padova, Italy
PhD thesis title: "Supernovae as probes of the cosmological
Star Formation Rate and distance scale"
Supervisors: Prof. R. Barbon,
Prof. E. Cappellaro
Prof. M. Turatto

Research Fellow
Astronomical Observatory of Padova
Italy

Oct. 1993 - **Jun. 2000**

Degree certificate: Astronomy
Jun. 30^{th}, 2000 - Padova University
Final grade: 100/110
Dissertation: "Supernovae Ia light curve morphology
and absolute magnitude calibration"
Supervisors: Prof. R. Barbon,
Prof. E. Cappellaro

Sept. 1988 - **Jul. 1993**

Upper school leaving certificate
Liceo Scientifico Statale "Archimede" (Roma)
(High School, specialising in Sciences)
Final grade: 60/60

Additional training:

VO - DAYs	Dec. 16-17, 2009 Bologna, Italy
Java Workshop	Mar. 22-23, 2007 Bologna, Italy
National School of Astrophysics:	May 11-17, 2003 (Marciana Marina, Livorno) - The Local Group Galaxies - The new generation telescopes Jun. 3-7, 2002 (Cetraro, Cosenza) - Turbolences in space plasmas - Galaxies and galaxy systems Oct. 15-19, 2001 (Trieste) - Chemical evolution of galaxies - High resolution spectroscopy May 20-25, 2001 (Sirolo, Ancona) - Solar system minor planets - Stellar structure, evolution and variability

Meetings & Talks:

Feb. 19-21, 2018
Leiden, Netherlands
CU9 plenary meeting 2018

Oct. 24-26, 2017
Porto, Portugal
PLATO Week 5
contributed talk: "The PIC after Gaia DR2"

Mar. 31, 2017
ESA-ESRIN, Frascati, Italy
SSA-NEO Observers meeting

Jan. 16-19, 2017
ESO, Santiago del Chile, Cile
2017 ESO Calibration Workshop: the second generation VLT instruments and friends
Invited talk: “Gaia spectro-photometric standards”

Nov. 29, 2016
Astronomical Observatory, University of Warsaw, Poland
Invited talk: “The Spectrophotometric Standard Stars Grid for the Gaia absolute calibration ”

Jun. 6-10, 2016
Bologna, Italy
The Gaia course for PhD students
contributed talk: “Gaia Science Alerts”

May 11-13, 2016
Barberino Val D’elsa (Florence), Italy
Use of Small Telescopes in the Giant Era
contributed talk: “Gaia Science Alerts”

Apr. 19-21, 2016
Bologna, Italy
Gaia Photometric Processing
CU5M16 meeting
contributed talk: “Status of the SPSS”

Feb. 18-19, 2016
Bologna, Italy,
Giornate di Osservatorio
local talk: “The Spectrophotometric Standard Stars Grid for the Gaia absolute calibration”

Jan. 14, 2016
Bologna, Italy,
local talk: “Gaia@OABo 2 years after launch”

Sept. 9-12, 2014
Warsaw, Poland
5^{th} Gaia Science Alerts Workshop

Apr. 7-8, 2014
Bologna, Italy
GREAT WP6 - Grand Challenges:
Distance Scale and Transient Sky
Progress Meeting (Final)

May 7, 2013
Bologna, Italy
Incontro Grandi Survey (IGS)
Invited talk: "Gaia public database:
all-sky spectrophotometry & kinematics"

Mar. 19-21, 2013
Cambridge, England
Gaia Photometric Processing
CU5M12 meeting

Jan. 14, 2013
Bologna, Italy
Italian National Meeting on the E-ELT
Progetto premiale T - REX

Sept. 6-7, 2012
Bologna, Italy
3^{rd} Gaia Science Alerts Workshop
contributed talk: "Gaia Science Alerts Follow-up Programme"
in the LOC

Apr. 17-19, 2012
Bologna, Italy
Gaia Photometric Processing
CU5M11 meeting
contributed talk: "SPSS flux tables delivery before launch"

Dec. 12-14, 2011
Bologna, Italy
Science with Gaia: revising the Italian Selection of Main Themes
contributed talk: "Gaia & Supernovae"

Jun. 29- Jul. 1, 2011

Cambridge, England
Gaia Science Alerts Workshop

May 3-6, 2011
Naples, Italy,
The Fundamental Cosmic Distance Scale:
State of the Art and the Gaia Perspective
contributed talk: “SN surveys & Gaia”

Oct. 12, 2010
Bologna, Italy,
local talk: “Supernova surveys, from past to future”

Jun. 23-25, 2010
Cambridge, England
Gaia Science Alerts Workshop
poster

Apr. 18-20, 2010
Leiden, Netherlands
Gaia Photometric Processing
CU5M09 meeting
contributed talk: “Instrument Absolute Response
Characterisation: Ground-Based Preparation”

Dec. 1-3, 2009
Barcelona, Spain
Gaia Photometric Processing
CU5M08 meeting

Mar. 17-19, 2009
Bologna, Italy,
Gaia Photometric Processing
CU5M07 meeting

Oct. 20-21, 2008
Bologna, Italy,
GBOG meeting 04
organizers: E. Pancino, G. Altavilla

Apr. 8-9, 2008

Barcelona, Spain
Gaia Data Processing & Analysis Consortia
CU5M05 meeting
contributed talk: "Instrument Absolute Response
Characterisation: Ground-Based Preparation"
contributed talk (by absent author):"New GBOG creation"

Mar. 5, 2008
Milano, Italy
Invited talk: "Type Ia SNe and SN 2004dt"

Sept. 25, 2007
Bologna, Italy,
local talk: "Mapping the Galaxy with Gaia"

Mar. 20-21, 2007
Bologna, Italy
Gaia Photometric Processing
CU5M03 meeting
contributed talk: "SPSS candidates for the Pilot Project"

Jun. 7-9, 2006
Barcelona, Spain
Gaia Data Processing & Analysis Consortia
CU2/CU5 meeting, Data simulation & Photometric processing

Feb. 7-11, 2005
Asiago, Italy
Supernova Observations and Data Reduction
RTN Winter School Asiago 2005

Jun. 16-19, 2004
Palazzo del Bo, Padova, Italy
"Supernovae as Cosmological Lighthouses"
poster + proceedings

Sept. 25-27, 2003
ECT*, Villa Tambosi, Trento, Italy
"Thermonuclear Supernovae and Cosmology"
ECT*/RTN Workshop and School

Apr. 22-26, 2003
Valencia, Spain
“Supernovae, 10 years of SN1993J”
IAU Colloquium 192
poster + proceedings

Mar. 10-15, 2003
Ringberg Castle at Lake Tegernsee, Germany
“The Physics of Type Ia Supernova Explosions”
RTN Workshop and Winter School,
contributed talk: SN Ia calibration & the Hubble Constant

Sept. 16-20, 2002
Lampedusa Island, Italy
“Workshop on Variability with Wide Field Imagers”
oral conribution + proceedings

Jul. 29-31, 2002
Garching, Germany
“From Twilight to Highlight, the Physics of Supernovae”
ESO/MPA/MPE Workshop
poster + proceedings

Apr. 10-15, 2000
Astronomical Observatory of Rome, Italy
Monteporzio Catone
XLIV congress of the Italian Astronomical Society (SAIt)

Jan. 30-31, 2000
Astronomical Observatory of Capodimonte, Italy
“VST Science”
contributed talk: ”SN rate at VST”

Experience

Telescope & instruments:
- Asiago 1.82m + AFOSC
- Loiano 1.52m + BFOSC
- ESO/MPG 2.2m + WFI
- Danish 1.54m + DFOSC
- NTT 3.58m + SOFI, EFOSC2
- VLT 8.2m + FORS1/2

- Calar Alto 2.2m + CAFOS
- TNG 3.58m + DOLORES
- San Pedro Martir 1.5m + LARUCA

Image processing & data reduction: IRAF -very good
FIGARO -basic
ISIS v2.2 -good

Informatics: Unix, Linux -good
MS Windows -good

Languages: Italian -mother tongue:
English -good
Spanish -basic

Publications

Refereed

2018, arXiv:1804.09380, accepted by A&A in the Gaia DR2 Special Issue
Gaia Data Release 2: Mapping the Milky Way disc kinematics
Gaia Collaboration: Katz, D.; Antoja, T.; Romero-Gómez, M.;
... ; **Altavilla, G.**; ... (452 co-authors)

2018 arXiv:1804.09377, accepted by A&A
Gaia Data Release 2: The Celestial reference frame (Gaia-CRF2)
Gaia Collaboration: Mignard, F.; Klioner, S.; Lindegren, L.;
... ; **Altavilla, G.**; ... (452 co-authors)

2018, arXiv:1804.09378, accepted by A&A in the Gaia DR2 Special Issue
Gaia Data Release 2: Observational Hertzsprung-Russell diagrams
Gaia Collaboration: Babusiaux, C.; van Leeuwen, F.; Barstow, M.A.;
... ; **Altavilla, G.**; ... (452 co-authors)

2018, arXiv:1804.09365, accepted by A&A in the Special Issue on Gaia DR2,
Summary of the contents and survey properties
Gaia Collaboration: Brown G.A.; Vallenari, A.; Prusti, P.;
... ; **Altavilla, G.**; ... (452 co-authors)

2018, arXiv:1804.09379, accepted by A&A

Gaia Data Release 2: Observations of solar system objects
Gaia Collaboration: Spoto, F.; Tanga, P.; Mignard, F.;
... ; **Altavilla, G.**; ... (452 co-authors)

2018, arXiv:1804.09381, accepted by A&A in the Gaia DR2 Special Issue

Gaia Data Release 2: Kinematics of globular clusters and dwarf galaxies around the Milky Way
Gaia Collaboration: Helmi, A.; van Leeuwen, F.; McMillan P.J.;
... ; **Altavilla, G.**; ... (452 co-authors)

2018, accepted for publication on ASR

Physical characterization of the deep-space debris WT1190F: a testbed for advanced SSA technique
Buzzoni, A.; Fan, S.; Frueh, C.; **Altavilla, G.**; Foppiani, I.; Micheli, M.; Nomen, J.; Sánchez-Ortiz, N.

2018, Icar, 304, 4M,

The observing campaign on the deep-space debris WT1190F as a test case for short-warning NEO impacts
Micheli, M.; Buzzoni, A.; Koschny, D.;
...; **Altavilla, G.**; ...(16 co-authors)

2017, A&A, 605A, 79G

Gaia Data Release 1.
Testing the parallaxes with local Cepheids and RR Lyrae stars
Gaia Collaboration; Clementini, G.; Eyer, L.; Ripepi, V.;
...; **Altavilla, G.**; ...(585 co-authors)

2017, A&A, 601C, 1C

Gaia Data Release 1 (Corrigendum).
Principles of the Photometric Calibration of the G band
Carrasco, J.M.; Evans, D.W.; Montegriffo, P.; Jordi, C.; van Leeuwen, F.; Riello, M.; Voss, H.; De Angeli, F.; Busso, G.; Fabricius, C.; Cacciari, C.; Weiler, M.; Pancino, E.; Brown, A.G.A.; Holland, G.; Burgess, P.; Osborne, P.; **Altavilla, G.**; Gebran, M.; Ragaini, S.; Galleti, S.; Cocozza, G.; Marinoni, S.; Bellazzini, M.; Bragaglia, A.; Federici, L.; Balaguer Núñez, L.

2017, A&A, 601A, 19G

Gaia Data Release 1.
Open cluster astrometry: performance, limitations, and future prospects
Gaia Collaboration: van Leeuwen, F.; Vallenari, A.; Jordi, C.;
...; **Altavilla, G.**; ...(591 co-authors)

2017, A&A, 599A, 32V
Gaia data release 1, the photometric data
van Leeuwen, F.; Evans, D.W.; De Angeli, F.; Jordi, C.; Busso, G.; Cacciari, C.;
Riello, M.; Pancino, E.; **Altavilla, G.**; ... (94 co-authors)

2017, A&A, 598A, 5P
The Gaia-ESO Survey: Calibration strategy
Pancino, E.; Lardo, C.; **Altavilla, G.**; ... (63 co-authors)

2016, MNRAS, 462, 3616M
The Gaia spectrophotometric standard stars survey - III.
Short-term variability monitoring.
Marinoni, S.; Pancino, E.; **Altavilla, G.**; Bellazzini, M.; Galleti, S.;
Tessicini, G.; Valentini, G.; Cocozza, G.; Ragaini, S.; Braga, V.;
Bragaglia, A.; Federici, L.; Schuster, W.; Carrasco, J.M.; Castro, A.;
Figueras, F.; Jordi, C.

2016, A&A, 595A, 7C
Gaia Data Release 1.
Principles of the Photometric Calibration of the G band
Carrasco, J.M.; Evans, D.W.; Montegriffo, P.; Jordi, C.; van Leeuwen, F.;
Riello, M.; Voss, H.; De Angeli, F.; Busso, G.; Fabricius, C.; Cacciari, C.;
Weiler, M.; Pancino, E.; Brown, A.G.A.; Holland, G.; Burgess, P.;
Osborne, P.; **Altavilla, G.**; Gebran, M.; Ragaini, S.; Galleti, S.;
Cocozza, G.; Marinoni, S.; Bellazzini, M.; Bragaglia, A.; Federici, L.;
Balaguer Núñez, L.

2016, A&A, 595A, 2G
Gaia Data Release 1. Summary of the astrometric, photometric,
and survey properties
Gaia Collaboration: Brown, A.G.A.; Vallenari, A.; Prusti, T.; de Bruijne, J.;
Mignard, M.; Drimmel, R.; ... ; **Altavilla, G.**; ... (591 co-authors)

2016, A&A, 595A, 1G
The Gaia Mission
Gaia Collaboration: Prusti, T.; de Bruijne, J.H.J.; Brown, A.G.A.;

Vallenari, A.; ... ; **Altavilla, G.**; ... (625 co-authors)

2016, AdSpR, 57, 1515B
Optical tracking of deep-space spacecraft in Halo L2 orbits and beyond: the Gaia mission as a pilot case
Buzzoni, A.; **Altavilla, G.**; Galleti, S.

2015, MNRAS, 452, 1060
Total eclipse of the heart: The AM CVn Gaia14aae / ASSASN-14cn
Campbell, H.C.; Marsh, T.R.; Fraser, M.; Hodgkin, S.T.; de Miguel, E.; Gänsicke, B.T.; Steeghs, D.; Hourihane, A.; Breedt, E.; Littlefair, S.P.; Koposov, S.E.; Wyrzykowski, Ł.; **Altavilla, G.**; Blagorodnova, N.; Clementini, G.; Damljanovic, G.; Delgado, A.; Dennefeld, M.; Drake, A.J.; Fernández-Hernández, J.; Gilmore, G.; Gualandi, R.; Hamanowicz, A.; Handzlik, B.; Hardy, L.K.; Harison, D.L.; Iłkiewicz, K.; Jonker, P.G.; Kochanek, C.S.; Kołaczkowski, Z.; Kostrzewa-Rutkowska, Z.; Kotak, R.; van Leeuwen, G.; Leto, G.; Ochner, P.; Pawlak, M.; Palaversa, L.; Rixon, G.; Rybicki, K.; Shappee, B.J.; Smartt, S.J.; Torres, M.A.P.; Tomasella, L.; Turatto, M.; Ulaczyk, K.; van Velzen, S.; Vince, O.; Walton, N.A.; Wielgórski, P.; Wevers, T.; Whitelock, P.; Yoldas, A.; De Angeli, F.; Burgess, P.; Busso, G.; Busuttil, R.; Butterley, T.; Chambers, K.C.; Copperwheat, C.; Danilet, A.B.; Dhillon, V.S.; Evans, D.W.; Eyer, L.; Froebrich, D.; Gomboc, A.; Holland, G.; Holoien, T.W.-S.; Jarvis, J.F.; Kaiser, N.; Kann, D.A.; Koester, D.; Kolb, U.; Komossa, S.; Magnier, E.A.; Mahabal, A.; Polshaw, J.; Prieto, J.L.; Prusti, T.; Riello, M.; Scholz, A.; Simonian, G.; Stanek, K.Z.; Szabados, L.; Waters, C.; Wilson R.W.

2015, MNRAS, 451, 3151
Explosion of a massive, He-rich star at z=0.16
Elias-Rosa, N.; Pastorello, A.; Nicholl, M.; Valenti, S.; Benetti, S.; Cappellaro, E.; Turatto, M.; **Altavilla, G.**; Botticella, M.; Monard, B.; Riello, M.; Zampieri, L.

2015, AN, 336, 515 (cover page)
The Gaia spectrophotometric standard stars survey – II. Instrumental effects of six ground-based observing campaigns.
Altavilla, G.; Marinoni, S.; Pancino, E.; Galleti, S.; Ragaini, S.; Bellazzini, M.; Cocozza, G.; Bragaglia, A.; Carrasco, J.M.; Castro, A.; Di Fabrizio, L.; Federici, L.; Figueras, F.; Gebran, M.; Jordi, C.; Masana, E.; Schuster, W.; Valentini, G.; Voss, H.

2014, MNRAS, 439, 2873
Low luminosity Type II supernovae - II.
Pointing towards moderate mass precursor
S. Spiro, S.; Pastorello, A.; Pumo, M.L.; Zampieri, L.;, Turatto, M.; Smartt, S.J.; Benetti, S.; Cappellaro, E.; Valenti, S.; Agnoletto, I.; **Altavilla, G.**; Aoki, T.; Brocato, E.; Corsini, E.M.; Di Cianno, A.; Elias-Rosa, N.; Hamuy, M.; Enya, K.; Fiaschi, M.; Folatelli, G.; Desidera, S.; Harutyunyan, A.; Howell, A.; Kawka, A.; Kobayashi, Y.; Leibundgut, B.; Minezaki, T.; Navasardyan, H.;Nomoto, K.; Mattila, S.; Pietrinferni, A.; Pignata, G.; Raimondo, G.; Salvo, M.; Schmidt, B.P.; Sollerman, J.; Spyromilio, J.; Taubenberger, S.; Valentini, G.; Vennes, S.; Yoshii, Y.

2013, MNRAS, 433, 1941
The double RGB in M 2: C, N, Sr and Ba abundances
Lardo, C.; Pancino, E.; Mucciarelli, A,; Bellazzini, M.; Rejkuba, M; Marinoni, S.; Cocozza, G.; **Altavilla, G.**; Ragaini, S.

2012, MNRAS, 426, 1767
The Gaia spectrophotometric standard stars survey.
I. Survey description and preliminary results
Pancino, E.; **Altavilla, G.**; Marinoni, S.; Cocozza, G.; Carrasco, J.M.; Bellazzini, M.; Bragaglia, A.; Federici, L.; Rossetti, E.; Cacciari, C.; Balaguer Núñez, L.; Castro, A.; Figueras, F.; Fusi Pecci, F.; Galleti, S.; Gebran, M.; Jordi, C.; Lardo, C.; Masana, E.; Monguió, M.; Montegriffo, P.; Ragaini, S.; Schuster, W.; Trager, S.; Vilardell, F.; Voss, H.

2012, Ap&SS, 341, 163
Supernovae and Gaia
Altavilla, G.; Botticella, M.T.; Cappellaro, E.; Turatto, M.

2009, A&A, 500, 1013
SN 1999ga: a low-luminosity linear type II supernova?
Pastorello, A.; Crockett, R.M.; Martin, R.; Smartt, S.J.; **Altavilla, G.**; Benetti, S.; Botticella, M.T.; Cappellaro, E.; Mattila, S.; Maund, J.R.; Ryder, S.D.; Salvo, M.; Taubenberger, S.; Turatto, M.

2009, ApJ, 695, 135
Type Ia SNe along redshift: the $\mathcal{R}$(Si II) ratio
and the expansion velocities in intermediate z supernovae

Altavilla, G.; Ruiz-Lapuente, P.; Balastegui, A.; Mendéz, J.; Irwin, M.; España-Bonet, C.; Ellis, R.S.; Folatelli, G.; Goobar, A.; Hillebrandt, W.; McMahon, R.M.; Nobili, S.; Stanishev, V.; Walton N.A.

2008, A&A, 479, 49
Supernova rates from the Southern inTermediate Redshift ESO Supernova Search (STRESS)
Botticella, M.T.; Riello, M.; Cappellaro, E.; **Altavilla, G.**; Pastorello, A.; Turatto, M.; Greggio, L.; Patat, F.; Valenti, S.; Zampieri, L.; Harutyunyan, A.; Pignata, G.

2007, A&A, 475, 585 (cover page)
The early spectral evolution of SN 2004dt
Altavilla, G.; Stehle, M.; Ruiz-Lapuente, P.; Mazzali, P.; Pignata, G.; Balastegui, A.; Benetti, S.; Blanc, G.; Canal, R.; Elias–Rosa, N.; Goobar, A.; Harutyunyan, A.; Pastorello, A.; Patat, F.; Rich, J.; Salvo, M.; Schmidt, B.P.; Stanishev, V.; Taubenberger, S.; Turatto, M.; Hillebrandt, W.

2007, A&A, 469, 645
480 days of the life of a normal Type ia Supernova: SN 2003du
Stanishev, V.; Goobar, A.; Benetti, S.; Kotak, R.; Pignata, G.; Patat, F.; Ruiz-Lapuente, P.; Havasardyan, H.; Iijima, T.; Turatto, M.; Amanullah, R.; Garavini, G.; Nobili, S.; **Altavilla, G.**; Pastorello, A.; Elias, N.; Harutyunyan, A.; Sollerman. J.; Andersson, J.; Gustafsson, M.; Jakobsson, P.; Oye, G.; Tsvetkov, D.; Pavlenko, E.P.; Pavlyuk, N.N.; Mattila, S.; Lundqvist, P.; Hillebrandt, W.

2006, MNRAS, 369, 1880
Anomalous extinction behaviour towards the Type Ia SN 2003cg
Elias-Rosa, N.; Benetti, S.; Cappellaro, E.; Turatto, M.; Stehle, M.; Patat, F.; Mazzali, P.A.; Pastorello, A.; Pignata, G.; Meikle, W.P.S.; Kotak, R.; Harutyunyan, A.; **Altavilla, G.**; Navasardyan, H.; Qiu, Y.; Salvo, M.; Hillebrandt, W.

2005, ApJ, 623, 37
High-Velocity Features: a ubiquitous property of Type Ia SNe
Mazzali, P.A.; Benetti, S.; **Altavilla, G.**; Blanc,G.; Cappellaro, E.; Elias-Rosa, N.; Garavini, G.; Goobar, A.; Harutyunyan, A.; Kotak, R.; Leibundgut, B.; Lundqvist, P.; Mattila, S.; Méndez, J.; Nobili, S.; Pain, R.; Pastorello, A.; Patat, F.; Pignata, G.; Podsiadlowski, Ph.; Ruiz-Lapuente, P.; Salvo, M.; Schmidt, B.P.; Sollerman, J.; Stanishev, V.; Stehle, M.; Tout, C.;

Turatto, M.; Hillebrandt, W.

2005, MNRAS, 360, 950
SN 1998A: Explosion of a Blue Supergiant
Pastorello, A.; Baron, E.; Branch, D.; Zampieri, L.; Tutatto, M.; Ramina, M.; Benetti, S.; Cappellaro, E.; Salvo, M.; Patat, F.; Piemonte, A.; Solleman, J.; Leibundgut, B.; **Altavilla, G.**

2005, A&A, 430, 83
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IAUC7549	Supernova 2000fp in Anonymous Galaxy Clocchiatti, A.; Arevalo, P.; Rada, C.; Barrientos, F.; Minniti, D.; Courbin, F.; Turatto, M.; **Altavilla, G.**; Benetti, S.; Cappellaro, E.; Pastorello, A.; Leibundgut, B.; Spyromilio, J.
IAUC7481	Supernova 2000da in UGC 5, Supernova 2000db in NGC 3949, Supernova 2000de in NGC 4384 Pastorello, A.; Giro, E.; **Altavilla, G.**; Benetti, S.
IAUC7391	Supernova 1998bu in NGC 3368 Cappellaro, E.; Benetti, S.; Pastorello, A.; Turatto, M.; **Altavilla, G.**; Rizzi, L.
IAUC7367	Supernova 2000H in IC 454 Pastorello, A.; **Altavilla, G.**; Cappellaro, E.; Turatto, M.; Benetti, S.

Students:

Coexaminer of C. Lardo's master thesis:
"Definition of strategy and procedures for ground-based data reduction and Gaia absolute flux calibration", 2009, University of Bologna.

Coexaminer of S. Marinoni's PhD thesis:
"Procedures of Quality Control and Data Analysis of multi-site ground-based observations for the Absolute Flux Calibration of GAIA", 2011, University of Bologna.

Public Outreach:

Provided images and text for the book:
"Dal caso Tunguska a 99942 Apophis. Quando il pericolo arriva dal cielo"
("From the Tunguska case to 99942 Apophis. When the danger comes from the sky")
A. De Blasi, A. Piemontese, F. Stefanelli
2008, Editore Clueb.

Public conference: "Stelle, mors loro, vita nostra" ("The death of the stars is our life"), Bologna, 24/10/2011.

Collaborated to *La scienza in piazza* (Bologna, 2013, 2012, 2011, 2010, 2009).

Public conference at the *Specola*: “Gaia... alla scoperta dei segreti della Galassia” (“Gaia, the discovery of the secrets of the Galaxy”),
Bologna, 03/10/2013.

Conference at the *Liceo Scientifico N. Copernico*: “Gaia ed il Liceo Copernico alla scoperta della Galassia” (within the *Gaia Live in School* event),
Bologna, 25/03/2014.

Collaborated to the *European Researchers’ Night*, Bologna, 26/09/2014.

Collaborated with the *Giornale di Astronomia* (a book review published in Vol. 41, N.1, March 2015).

Talk at the *Educandato Statale San Benedetto*: “Siamo polvere di stelle” (“We are stardust”),
Montagnana (PD), 28/04/2016.

Built a bluetooth weighing machine to show the weight on the Earth and on other planets, based on Arduino and an ad-hoc mobile application to read the data on an android device.

Collaborated to the *Loiano Open Day* (celebrating the 80^{th} anniversary of the 60 cm Zeiss telescope and the 40^{th} anniversary of the 1.5 m G.D. Cassini telescope),
Loiano (Bo), 18/06/2016.

Collaborated to the *European Researchers’ Night* at SSDC-ASI, Rome, 29/09/2017.

Collaborated to the *Salone dello studente*, Fiera di Roma, Rome, 8/11/2017.

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