Alessandro Bemporad

CURRICULUM VITÆ

(March 2024)

- **PERSONAL DETAILS**

FIRST NAME: Alessandro FAMILY NAME: Bemporad
PLACE AND DATE OF BIRTH: Firenze (Italy); January 21st, 1976
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- **CURRICULUM STUDIORUM**

09/2002: Bachelor Degree in Physics (Specialization: Astronomy), University of Florence, Italy. **Thesis**: "Determination of Physical Parameters of Coronal Streamers"; **supervisors**: Dr. G. Poletto (poletto@arcetri.astro.it) and Dr. M. Romoli (romoli@arcetri.astro.it).

23/02/2006: PhD in Astronomy at the Arcetri Astrophysical Observatory, Florence, Italy. **Thesis**: "UV Spectroscopy of Coronal Plasmas and its application to different structures"; **supervisor:** Dr. G. Poletto (poletto@arcetri.astro.it).

05/2007: qualification for Mathematics and Physics Teaching at High Schools (after a 2 years Master).

01/02/2006 - 31/08/2007: Post-doc position at the INAF - Arcetri Astrophysical Observatory, Largo E. Fermi 5, 50125 Firenze - Italy.

01/09/2007 - 14/06/2011: Post-doc position at the INAF - Turin Astronomical Observatory, via Osservatorio 20, 10025 Pino Torinese (TO) - Italy.

15/06/2011 – **31/12/2022:** Research Astronomer (permanent) at the INAF - Turin Astronomical Observatory, via Osservatorio 20, 10025 Pino Torinese (TO) - Italy.

- **PRESENT POSITION**

Since January 1st, 2023: Senior Researcher at INAF - Turin Astrophysical Observatory.

- **RESEARCH FIELD**

Solar Physics: UV-EUV Spectroscopy of the Solar Corona and Solar Wind; determination of physical parameters of Coronal Streamers and Coronal Mass Ejections Characterization of shocks driven by CMEs. Determination of coronal magnetic field involved in CME-driven shocks. Off-limb observations of the low corona with Hinode/EIS spectrometer; study of solar polar jets; comparison between plasma parameters derived via *remote-sensing* techniques and *in situ* parameters measured by Ulysses instruments; Earth – Sun connections and Space Weather; UV Spectroscopy of Sungrazing Comets and determination of comet parameters; expertise on reduction and analysis of data acquired by SOHO/UVCS, SOHO/LASCO, STEREO/COR STEREO/EUVI, Hinode/EIS, Hinode/XRT instruments with IDL and the Solar Software (SSW). Stereoscopic reconstructions of prominences with data acquired by the STEREO telescopes.

Computing: *Operating Systems*: Unix, Windows. *Languages*: IDL, Fortran, Latex, HTML. *Applications*: Photoshop, Gimp, KdenLive, Office Package. *Data Reduction*: Solar Software, Excel, Origin.

- **TEACHING EXPERIENCE (University level)**

Temporary Lecturer (2012-present) at the Physics Dep. - University of Turin (ind.: FIS/05 Astronomia e Astrofisica) for the Course "*Elementi di Eliofisica e Meteorologia spaziale*" (48 hours, 6 Credits);

Assistant (2020-present) at the Physics Dep. - University of Turin (ind.: FIS/05 Astronomia e Astrofisica) for the Course "Astrophysics Laboratory" (8 hours, course held by Prof. F. Massaro);

Assistant (2021-2019) at the Physics Dep. - University of Turin (ind.: FIS/05 Astronomia e Astrofisica) for the Course "Astrophysics Laboratory" (4 hours, course held by Prof. S. Fineschi);

Supervisor of a Degree Thesis in Physics in 2024 (Dott. S. Bertone) "*Study of coronal magnetic fields over one full solar activity cycle*";

Co-supervisor (with Prof. F. Reale, University of Palermo) of a Ph.D. student in Physics (Dott. R. Biondo) for a Research Project titled "*MHD numerical simulation of coronal plasma heating and acceleration in support for the analysis of future Metis observations*" (10/2019-09/2022);

Co-supervisor (with Prof. S. Fineschi) of a 2 years post-doc (Dr. F. Frassati) for the Project titled "*Analisi di osservazioni acquisite dallo spazio e da Terra per lo sviluppo di diagnostiche dei parametri fisici dei plasmi della corona solare applicabili dalla futura missione Metis/Solar Orbiter*" (08/2019 – 07/2021);

Co-supervisor (with Prof. L. Feng, Purple Mountain Observatory, Nanjing) of a Ph.D. student in Physics (Dott. B. Ying) for a Research Project titled "*Multi-wavelength and Multi-perspective Studies of Coronal Mass Ejections and their driven Shocks*" (07/2018-06/2020);

Supervisor of a Degree Thesis in Physics in 2022 (Dott. S. Pennella) "*Analysis of the first ever acquired multi-band coronagraphic observations of a sungrazing comet*";

Supervisor of a Degree Thesis in Physics in 2020 (Dott. F. Carella) "*Automated identification of Active Regions and Coronal Hole in EUV solar images*";

Supervisor of a Ph.D. student in Physics (Dott. F. Frassati) for a Research Project titled "*Interplanetary shocks driven by Coronal Mass Ejections: a study based on data acquired by space-based instrumentations*" (10/2015-09/2018);

Mentor of an under-graduate Erasmus student (D. Andriuta) in 2018 and 2019 (form June to September) for a project titled "*Search of possible correlations between the strength of geomagnetic storms and interplanetary magnetic field measurements*";

Supervisor of a Degree Thesis in Physics in 2015 (Dott. G. Guilluy) titled "*Optimization of the software for the detection of CMEs for METIS instrument on-board ESA-Solar Orbiter*";

Co-Supervisor of a Master Thesis in Physics in 2014 (Dott. J. Girella) titled "*Magnetic Fields in the Solar Corona:Diagnostics from polarimetric observations of Total Eclipse*";

Supervisor of a 2 years post-doc (Dr. R. Susino) within the European Project SWIFF "*Space Weather Integrated Forecasting Framework*" (10/2011-11/2013);

Supervisor of a Master Thesis in Physics in 2013 (Dott. M. Morra) titled "*Studio Spettroscopico dei Moti non termici del Plasma Coronale*";

Supervisor of a Master (Erasmus) Thesis in Physics in 2013 (Dott. A. Parashiv) titled "*Characterization of Polar Jets in the Solar Corona with HINODE/XRT and SOHO data*";

Supervisor of a Degree Thesis in Physics in 2009 (Dott. M. Calabrese) titled "*Determinazione di Parametri Fisici del Plasma Solare in un Buco Coronale da analisi di Dati Spettroscopici HINODE/EIS*;

- **TEACHING EXPERIENCE (other levels)**

Tutor for "alternanza scuola-lavoro" of high-school project (A.S. 2018-2019) "*Measurement of Earth-Moon distance*";

Supervisor of a high school dissertation (A.S. 2016-2017) titled "*The sun and sunspots: measurement of solar rotation rate*";

Supervisor of a high school dissertation (A.S. 2017-2018) titled "*Measurement of the Hubble constant*".

Lecturer for the 2nd Level University Master "Mathematical and Physical methods for Space Sciences (MPM Space Sciences)", organized by the University of Turin, Mathematics Department (6 hours, A.A. 2019-2020);

Lecturer for the course "*A cavallo di un raggio di luce: corso di astronomia*", organized by UniTre Torino Metropolis (2 hours, February 29, 2016);

Lecturer for the "*Corso di formazione di Astronomia e Astrofisica per docenti di scuola secondaria*", Turin, December 11, 2019.

Lecturer for the course "*Dal Sole alle Aurore: effetti imprevedibili della nostra stella*" organized for the "Campus MFS di Astronomia e Astrofisica" (6 hours, 6-8 November 2020).

Lecturer for the course "*Dal Sole alle Aurore: effetti imprevedibili della nostra stella*" organized for the "Campus MFS di Astronomia e Astrofisica" (12 hours, 22-24 October & 13-14 November 2020).

Lecturer for the "*Corso di formazione di Astronomia e Astrofisica per docenti di scuola secondaria*", Turin, April 28, 2022.

- **ROLES OF RESPONSIBILITY**

Coordinator of project "SWELTO–Space Weather Laboratory in Turin Observatory", national research project involving 23 people (professors, researchers, technologists and students) from INAF, Turin University and Palermo University (2018 – present)

Metis TT12 coordinator, coordinator of the Metis Topical Team "*Modelling of CME propagation /evolution in corona and solar wind in connection with Space Weather - TT12*" - an international team with more than 40 participants established in May 2020 and working to maximize the scientific return of the Solar Orbiter - Metis project.

WG SolO-BempiColombo coordinator, coordinator of the Working Group "*Shocks, CMEs, and interplanetary propagating disturbances*", national working group with 27 participnats established in June 2020 and working to maximize the possible inter-disciplinary activities among researchers involved in Solar Orbiter and Bepi Colombo mission

ISSI Team Co-coordinator, co-coordinator (together with Dr. Li Feng, PMO, China) of ISSI International Team with 11 members, selected in June 2020 and working on "Solar eruptions: preparing for the next generation multi-waveband coronagraphs"

Local coordinator of Planetary and Solar Physics Group (RSN3), coordinator at INAF-Turin Observatory of activities carried out by the Planetary & Solar Physics Group (RSN3)

Member of the INAF-OATo Director's Supporting Board (november 2019 - present)

Coordinator of Editorial Board, coordinator of the Editorial Board for the redaction of SOHE3 conference proceedings volume, published on Nuovo Cimento and including more than 70 papers.

Member of the "Space Weather Working Group" of the Italian Space Agency – ASI (2017 – present)

Member of Directive Board of the Space Weather Italian Community (SWICO), Italy (2014 – 2016)

Member of the Ph.D Board, Physics Department, University of Turin (April 2016 – pres.)

Organizer of the Seminars, INAF –Turin Observatory, Pino Torinese (TO), Italy (2013 – pres.)

Member of the "MADAWG - Modelling & Data analysis working Group" for ESA-Solar Orbiter mission (2014 – pres.);

Co-I of the SWIFF Project (http://www.swiff.eu/ founded by ERC February 2011 – January 2014);

Co-I of the METIS Coronagraph for the future Solar Orbiter Mission (2009 – pres.);

Co-I for the ASPIICS Coronagraph for the future PROBA-3 Mission (2010 – pres.);

Member of the Faculty Committee for a PhD Thesis (Dr. S. Pucci), University of Florence, Italy (2014)

Member of the Faculty Committee for a PhD Thesis (Dr. A. Soenen), KU Leuven, Belgium (2011)

Member of a NASA-Heliophysics Guest Investigator Program Review Panel (February 2012);

Member of an ISSI-International Team on "Post-CME Current Sheets" (2006-2008, PI: Dr. G. Poletto).

Member of an ISSI-International Team on "Coronal Magnetometry: Building Tools for Discovery" (selected for 20013-2015, PI: Dr. S. Gibson);

- **ORGANIZATION OF SCIENTIFIC MEETINGS**

Chair of LOC and SOC Member for the "17th European Solar Physics Meeting - ESPM17", Turin (Italy), September 9-13, 2024;

Chair of LOC and SOC Member for the "16th European Solar Physics Meeting - ESPM16", Turin (Italy), September 5-10, 2021 (cancelled due to pandemic emergency);

Chair of SOC and LOC for the "3rd Meeting of the Italian Solar and Heliospheric Community", Turin (Italy), October 17-19, 2018;

LOC Member for the "PROBA-3 Science Working Team Meeting #4", Turin (Italy), May 18-19, 2016;

SOC Member for the "2016 Meeting of the Italian Solar & Heliospheric Community", Rome (Italy), May 30 – June 1st, 2016;

Main Organizer of 4 Scientific Sessions for the 38th (2010), 39th (2012), 40th (2014) and for 41st (2016) COSPAR Meetings;

SOC Member for the "Riunione della Comunità Scientifica ed Eliosferica Italiana", Catania (Italy), September 4-6, 2013;
Chair of SOC and LOC for the "Second Annual SWIFF Meeting", January 14-16, 2013, Turin (Italy);
LOC Member of the "3rd Solar Orbiter Workshop", Sorrento (Italy), May 25-29, 2009.

- **PRIZES AND AWARDS**

Winner of the "Stefan Hepites PRIZE" given by the Academia Romana, Bucharest, Romania given for merits in the study of "Genesis and Evolution of the Coronal Mass Ejections" (2011).
Winner of the "3rd JOSO (Joint Organization for Solar Observations) PRIZE" given to a young Solar Physicist for an outstanding paper (2009).

- **FOREIGN EXPERIENCES**

October, 1999 – March, 2000: Erasmus Project, undergraduate student at Université de Provence, Aix-Marseille I, France
August 2004, April – June, 2005: visiting scientist at the Harvard-Smithsonian CFA of Cambridge (MA, USA) for scientific collaboration with Dr. J. Raymond (raymond@cfa.harvard.edu).
February 2010 – July 2011: several visits at the CPA of the Leuven University (Belgium) for scientific collaborations with Drs. G. Lapenta (giovanni.lapenta@wis.kuleuven.be) and S. Poedts (stefaan.poedts@wis.kuleuven.be).

- **INVITED TALKS / PRESENTATIONS**

1) **Invited Review:** "UV Observations of Sungrazing comets with the SOHO/UVCS Instrument", given at "AOGS 2nd Annual Meeting 2005", Singapore, June 20 – 24, 2005.
2) **Invited Talk**: "Are CMEs globally affecting the Corona by Reconnections occurring on different scales?", given at "37th COSPAR Meeting", Montrèal (Canada), 13 – 20 July, 2008.
3) **Invited Young Scientist Lecture:** "Multispacecraft Observations of a Prominence Eruption", given at "STEREO-3/SOHO-22 Workshop", Bournemouth, Dorset (UK), April 27 – May 1, 2009.
4) **Invited Lecture given by the JOSO Prize Winner:** "Multiple small-scale magnetic reconnections inside post-CME Current Sheets: a possible solution to inconsistencies between theory and observations", given at "4th Central European Solar Physics Meeting", Bairisch Koelldorf (Austria), Sept. 30-Oct. 2, 2009.
5) **Invited Talk:** "Observations of Coronal Mass Ejections in the Outer Corona", given at "5th Solar Orbiter Workshop", Bruges (Belgium), September 10-14, 2012.
6) **Invited Talk:** "Observations of Solar Storms in the Outer Corona", given at the Conference "Solar and Heliospheric Influences in the Geospace", Bucharest (Romania), October 1-5, 2012.
7) **Invited Talk:** "Study of CME-driven shocks with remote sensing data: recent results and prospects from future solar missions", given at the "SCOSTEP's 13th Quadrennial Solar-Terrestrial Physics Symposium", Xi'an, Shanxi, China, October 12-18, 2014.
8) **Invited talk:** "Discovering the Heliosphere with new eyes: future opportunities from Solar Orbiter and PROBA3 missions", given at the "13th European Space Weather Week", Oostende (Belgium), November 14-18, 2016.
9) **Invited Talk:** "Coronal Mass Ejections and Shock Fronts observed in WL and UV emissions", "7th Solar Orbiter workshop", Granada (Spain), April 3-7, 2017.
10) **Invited talk:** "Coronagraphic observations of Solar Eruptions and Solar Wind in the UV range: past, present and future", "EGU General Assembly 2019", Vienna (Austria), 09/04/19
11) **Invited talk:** "Manifestations and Triggering of Coronal Mass Ejections as observed in the EUV-UV emissions", "2nd China Europe Solar Physics Meeting – CESPM2", Hvar (Croazia), 07/05/19

- **INVITED SEMINARS/LECTURES**

1) **Invited Seminar:** "Solar Mass Ejections: what we learnt from Coronal Spectroscopy", held at Center for Plasma Astrophysics (CPA), University of Leuven, Leuven (Belgium), April 22, 2010.
2) **Invited Seminar:** "Solar Mass Ejections: what we learnt from Coronal Spectroscopy", held at Indian Institute for Astrophysics (IIA), Bangalore (India), July 24, 2012.

3) **Invited Seminar:** "Electro-optical Spectro-polarimeter for Ground- and Space-based Solar Coronagraphy", Instituto de Astrofisica de Canarias (IAC), Tenerife (Spagna), November 28, 2012.
4) **Invited Lecture:** "Study of Solar Eruptions with UV and WL data", UniTo Colloquium, Physics Dept. of Turin University, April 12, 2013.
5) **Invited Seminar**: "Measuring Coronal Magnetic Fields with Shocks driven by CMEs", held at the Astronomical Institute, Slovak Academy of Science (Slovak Republic), November 20, 2014.
6) **Invited Seminar**: "Coronagraphic observations of Solar Eruptions and Solar Wind in the UV range: past, present and future", Purple Mountain Obs., Nanjing (Cina), 27/03/18
7) **Invited seminar**: "Studies of Solar Eruptions from space: entering the new era of multi-channel coronagraphs", INAF-IAPS Roma, 23/10/19

- **OUTREACH SEMINARS**

1) "Il Sole e le Relazioni Sole-Terra", Liceo Machiavelli, Firenze (Italy), April 4, 2006.
2) Presentazione del Programma Didattico "Students around the World through IHY", licei della provincia di Torino, April 13, 2008.
3) "Il Sole e le Relazioni Sole-Terra", Planetario di Torino, Pino Torinese (Italy), April 21, 2009.
4) "L'astronomo? Sa leggere il futuro", Festival della Scienza, Genova (Italy), October 24, 2011.
5) "Sole e Tempeste Solari verso il Massimo di Attività", Osservatorio Astronomico G.D. Cassini, Perinaldo (Italy), April 6, 2013.
6) "Meteorologia Spaziale e Climatologia Terrestre: quali i collegamenti?", Auditorium dell'Acquario di Genova, November 12, 2014.
7) "In viaggio verso il Sole sul Solar Orbiter", Notte dei Ricercatori (Torino), September 26, 2014.
8) "Sole, tempeste solari e meteorologia spaziale", Liceo Avogadro di Torino, May 12, 2015.
9) "In viaggio verso il Sole sul Solar Orbiter", Notte dei Ricercatori (Torino), September 25, 2015.
10) "Sole, Tempeste Solari e Meteorologia Spaziale", Corso di Astronomia per "UniTre Torino Metropolis", ITCS Sommeiller, February 29, 2016.
11) "In viaggio verso il Sole sul Solar Orbiter", Notte dei Ricercatori (Torino), September 30, 2016.
12) "Visit to the INAF-Turin Astrophysical Observatory", Young Researcher Meeting, October 25, 2016.
13) "Convivere con la nostra stella: dalla quiete apparente del sole alle tempeste spaziali", ciclo di conferenze pubbliche "I cieli di Brera", March 21, 2018.
14) "Il nostro posto al Sole", ciclo di conferenze "Back into the Space, Ass.ne di Astrofili "Celestia Taurinorum", Turin, March 19, 2019.
15) "Dallo sbarco sulla Luna all'esplorazione umana dell'universo", ciclo di conferenze "La Luna al Mausoleo", Mausoleo della Bella Rosin (Turin), June 9, 2019.
16) "Dallo sbarco sulla Luna all'esplorazione umana dell'universo", ciclo di conferenze "Parole e Colori al Forte", Forte di Tecla (Sanremo), June 15, 2019.
17) "Dal Sole alle aurore: effetti imprevisti della nostra stella", ciclo di conferenze "Pint of Science", Turin May 21, 2019.
18) "Il mestiere del Ricercatore", Notte dei Ricercatori, Turin, September 27, 2019.
19) "Il Sole e le Stelle" (in collaborazione con A. Spagna), Notte dei Ricercatori, Turin, September 27, 2019.
20) "Sole e Meteorologia Spaziale", Master MPM Space Sciences 2021, December 17, 2020.
21) "Campus di Astronomia e di Astrofisica", Scuola di Formazione Scientifica L. Lagrange (3 lezioni di 2 ore), Turin, November 23 – December 2, 2020
22) "Il Sole, l'attività solare, e gli effetti sul clima terrestre"
23) "Il mestiere del Ricercatore", Notte dei Ricercatori, Turin, September 24, 2021.
24) "Campus di Astronomia e di Astrofisica", Scuola di Formazione Scientifica L. Lagrange (3 lezioni di 2 ore), Turin, October 22 – 24, 2021
25) "Sole e Meteorologia Spaziale", Master MPM Space Sciences 2021, December 14, 2021.
26) "Il mestiere del Ricercatore", Notte dei Ricercatori, Turin, September 29, 2023.
27) "Vivere assieme a una stella – l'impatto dell'attività solare sulla terra", mini-corso on-line (4 lezioni) per Associazione "AstronomiAmo" (febbraio – marzo 2024)

- **SCHOOLS & WORKSHOPS**

During his career he attended 1 National School of Astrophysics (Isola d'Elba, Italy, May 11-17, 2003), 5 International Schools and Summer Colloquia (NCAR, Boulder, USA, May 31 – June 10, 2005; Montegufoni, Italy, October 3 -7, 2005; L'Aquila, Italy, March 26 - April 1, 2006; Les Diablerets, Switzerland, March 23-28, 2009; Turin, Italy, October 21-24, 2009) and 2 International Workshops (IAS Paris Orsay, France, November 13 – 15, 2007; Paris Observatory, France, April 19 – 24, 2008).

- **CONFERENCES & MEETINGS**

During his career he attended a total of 59 International Meeting and 5 National Meetings (listed below), where he presented his scientific results with invited talks, contributed talks and poster presentations.

1. "III Meeting on the Italian Solar Research", Isole Eolie (Italy), September 30 - October 4, 2002 (**1 talk**).
2. "ISCS Symposium 2003", Tatranska Lomnica (Slovack Republic), June 23-28, 2003 (**1 poster**).
3. "XXXV COSPAR Meeting", Paris (France), June 18-25, 2004 (**1 poster presentation**).
4. "IAU 226: Coronal & Stellar Mass Ejections", Beijing (China), September 13-17, 2004 (**1 talk**)
5. "AOGS 2nd Annual Meeting 2005", Singapore, June 20 – 24, 2005 (**1 invited talk**).
6. "11th Solar Physics Meeting", Leuven (Belgium), Sept. 12 – 16, 2005 (**1 poster presentation**).
7. "IV Convegno della Ricerca Italiana in Fisica Solare", Trieste (Italy), October 18 – 20, 2005 (**1 talk**).
8. "SOHO 17: 10 years of SOHO and beyond", Giardini Naxos (Italy), May 7-12, 2006 (**1 talk**).
9. "LI Congresso della SAIT", Firenze (Italy), April 17 - 20, 2007 (**1 talk**).
10. "SOHO 20 Meeting", Ghent (Belgium), August 27 – 31, 2007 (**1 talk**).
11. ISSI International Team "Understanding the Role of Current Sheets in the Solar Eruptive Phenomena", ISSI, Bern (Switzerland), October 23 – 26, 2006 (1st meeting), September 3 – 4, 2007 (2nd meeting) and March 3 – 6, 2008 (3rd and last meeting – **3 talks**).
12. "37th COSPAR Meeting", Montrèal (Canada), 13 – 20 July, 2008 (**1 invited talk and 2 poster pres.**).
13. "2nd Hinode Science Meeting", Boulder (USA), Sept. 29 – October 3, 2008 (**1 talk**).
14. "STEREO-3/SOHO-22 Workshop", Bournemouth, Dorset (UK), April 27 – May 1, 2009 (**Invited Young Scientist Lecture and poster presentation**).
15. "3rd Solar Orbiter Workshop", Sorrento (Italy), May 25 – 29, 2009 (**poster presentation**).
16. "Solar Wind 12", Saint Malò (France), June 21 – 26, 2009.
17. "4th Central European Solar Physics Meeting", Bairisch Koelldorf (Austria), Sept. 30-Oct. 2, 2009 (**Invited Lecture given as the winner of the JOSO Prize**).
18. "2nd IAGA Meeting", Cairo (Egypt), December 4 – 12, 2009 (**1 talk, 1 poster presentation**)
19. "38th COSPAR Meeting", Bremen (Germany), 18 – 22 July, 2010 (**1 talk and 1 poster pres.**).
20. "4th Hinode Science Meeting", Mondello (Italy), October 11 – 15, 2010 (**1 poster presentation**).
21. "1st METIS Workshop", Firenze (Italy), February 10 – 11, 2011 (**1 talk presentation**).
22. "4th Solar Orbiter Workshop", Telluride (USA), March 27 – 31, 2011 (**1 talk presentation**).
23. "STEREO-4/SDO-2/SOHO-25 Meeting", Kiel (Germany), July 25 – 29, 2011 (**1 talk, 1 poster**).
24. "39th COSPAR Meeting", Mysore (India), 14 – 22 July, 2012 (**1 talk and 2 poster pres.**).
25. "5th Solar Orbiter Workshop", Bruges (Belgium), September 10-14, 2012 (**1 invited talk + 2 posters**).
26. "Solar and Heliospheric Influences in the Geospace", Bucharest (Romania), October 1-5, 2012 (**1 invited talk**).
27. "Arcetri 2012 Workshop on Plasma Astrophysics", Florence (Italy), November 5-8, 2012 (**1 talk**).
28. "2nd METIS Science & Technical Meeting", Turin (Italy), December 12-13, 2012 (**1 talk**).
29. "2nd Annual SWIFF Meeting", Turin (Italy), January 14-16, 2013 (**1 talk**).
30. "3rd METIS Science & Technical Meeting", Naples (Italy), October 15-17, 2013 (**2 talks**).
31. "Riunione della Comunità Scientifica Solare ed Eliosferica italiana 2013", Catania (Italy), September 4-8, 2013 (**1 talk**).
32. "40th COSPAR Meeting", Moscow (Russia), 3 – 9 August, 2014 (**3 talks**).
33. "SCOSTEP's 13th Quadrennial Solar-Terrestrial Physics Symposium", Xian (China), 12 – 18 October 2014 (**1 talk**).
34. "Lorentz Workshop: Integrated plasma modelling of solar flares", Leiden (Netherlands), 18 – 22 May 2015 (**1 talk**).
35. "First joint Solar Probe Plus – Solar Orbiter Workshop", Artimino (Italy), 2 – 4 September 2015 (**2 talks**).

36. “Solarcast1 Workshop”, Copenhagen (Norway), 9 – 11 November 2015 (**1 talk**).
37. “Solar Orbiter MADAWG”, Bruxelles (Belgium), 19 – 20 November 2016 (**1 talk**).
38. “ISEST/MiniMax 2015 Workshop”, Mexico City (Mexico), 26 – 30 November 2015 (**1 talk**).
39. “Solar Orbiter MADAWG + SWT + SAP”, Alcalà de Henares (Spain), 11 – 14 April, 2016 (**1 talk**).
40. “2016 Meeting of the Italian Solar & Heliospheric Community”, Rome (Italy), May 30 – June 1st, 2016 (**1 poster**).
41. “13th European Space Weather Week”, Oostende (Belgium), November 14-18, 2016 (**1 invited talk**).
42. “L5 Tandem with L1 SW Mission”, London (UK), March 6-9, 2017.
43. “7th Solar Orbiter Meeting”, Granada (Spain), April 3-7, 2017 (**1 invited talk**).
44. “European Solar Physics Meeting”, Budapest (Bulgaria), September 4-8, 2017 (**1 talk**).
45. “2017 Workshop on Plasma Astrophysics”, Florence (Italy), October 23-26, 2017 (**1 talk**).
46. “Metis calibration Workshop”, Florence (Italy), September 26-27, 2017 (**1 talk**).
47. “PROBA-3 Science Working Team”, Wroclaw (Poland), December 4-6, 2017 (**1 talk**).
48. “Solar Orbiter MADAWG”, Toulouse (France), 22 –24 January 2018.
49. “Solar Wind 15”, Bruxelles (Belgium), 18-22 June 2018 (**1 talk**).
50. “42ndCOSPAR Meeting”, Pasadena (USA), 14-22 July 2018 (**2 talks** and **2 poster pres**.)
51. “Solar Orbiter MADAWG”, Athens (Greece), 26 –28 September 2018 (**1 talk**).
52. “Metis 6thWorkshop”, Goettingen (Germany), November 21-23, 2018 (**1 talk**).
53. “Solar Orbiter MADAWG”, Madrid (Spain), 23 –26 January 2019 (**1 talk**).
54. “EGU General Assembly 2019”, Vienna (Austria), 7 – 12 April 2019 (**1 invited**).
55. “2nd China-Europe Solar Physics Meeting (CESPM 2019)”, Hvar (Croatia), 5 – 10 May 2019 (**1 invited**).
56. “46th European Physical Society Conference on Plasma Physics - EPS”, 8 – 12 July 2019 (**1 talk**).
57. “16th European Space Weather Week”, Liège (Belgium), 18 – 22 November 2019 (**1 poster** pres.).
58. “Multi-spacecraft investigagions of the Inner Heliosphere: Italian opportunities”, ASI Headquarters, 3 – 4 December 2019 (**1 talk**).
59. “European Space Weather Symposium 2020”, held on-line, 2 – 6 November 2020 (**1 quickview talk**).
60. “AGU Fall Meeting”, held on-line, 1 – 17 December 2020 (**1 poster** presentation).
61. “EGU 2021 General Assembly”, held on-line, 19 – 30 April 2021 (**1 talk**).
62. “16th European Solar Physics Meeting”, held on-line, 6 – 10 September 2021 (**1 poster**).
63. “XVIIth Hvar Astrophysical Colloquium”, held on-line, 20 – 24 September 2021 (**1 talk**).
64. “Congresso SWICO 2021”, ASI Rome, 9 – 11 February 2022 (**1 talk**).
65. “8th Solar Orbiter Workshop”, Belfast (North Ireland), 12 – 15 September 2022 (**1 talk and 2 posters**).
66. “Verso una Capacità Nazionale per la Sorveglianza dello Spazio”, Area di Ricerca, Bologna (Italy), 6-7 October 2022.
67. “18th European Space Weather Week”, Zagreb (Croatia), 24 – 28 October 2022 (**1 talk and 1 poster**).
68. “Science with current and future solar physics missions” Workshop, ASI Rome, 1 February 2023 (**1 talk**).
69. “ICTP-SCOSTEP-ISWI Workshop on the Predictability of the Solar-Terrestrial Coupling - PRESTO”, Trieste (Italy), May 30th – June 2nd 2023 (**1 talk**)
70. “22° Congresso annuale della Società Italiana di Archeoastronomia (SIA)”, Turin (Italy), 14 – 16 September 2023.
71. “SoHe 2023 - Fourth Meeting of the Italian Solar and Heliospheric Community”, Firenze (Italy), October 25 – 27 2023 (**1 talk**).
72. “Triennial Earth-Sun Summit (*TESS*)”, Dallas (USA TX), 7 – 12 April 2024 (**1 talk**).
73. “EGU 2024 General Assembly”, held on-line and in presence, 14 – 19 April 2024 (**1 virtual poster**).
74. “European Astronomical Society Annual Meeting”, Padova (Italy), 1 – 5 July 2024 (**1 remote talk**).

- **LANGUAGES**

Italian (native), **English** (very good), **French** (good)

- **PUBLICATIONS**

See the next pages.

Alessandro Bemporad

PUBLICATIONS

(March 2024)

During his career he published a total of 115 referee papers, 28 conference proceedings, 36 technical papers, 14 technical reports, and 11 outreach papers, all listed below.

- **REFEREED PUBLICATIONS (H index = 25 – from NASA ADS)**

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2. "Analysis of the first coronagraphic multi-band observations of a sungrazing comet", **Bemporad, A.**, Pennella, S., Battams, K., and 35 co-authors, Astronomy & Astrophysics, Volume 680, id.A90, 2023.

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9. "A New Method Linking the Solar Wind Speed to the Coronal Magnetic Field", Casti, M., Arge, C. N., **Bemporad, A.**, Pinto, R. F.; Henney, C. J., The Astrophysical Journal, Volume 949, Issue 2, id.42, 2023.

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10. "Three Eruptions Observed by Remote Sensing Instruments Onboard Solar Orbiter", Mierla, M., Cremades, H., Andretta, V., and 31 co-authors, Solar Physics, Volume 298, Issue 3, article id.42, 2023.

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