

List of Publications
(updated on 27/3/2018)

Referred publications:

2018: “IGR J14257-6117, a magnetic accreting white dwarf with a very strong strong X-ray orbital modulation”

Bernardini, F.; de Martino, D.; Mukai, K.; Falanga, M. MNRAS, 478, 1185.

[paper-link](#)

2018: “Optical Precursors to Black Hole X-Ray Binary Outbursts: An Evolving Synchrotron Jet Spectrum in Swift J1357.2-0933”

Russell, D. M.; Qasim, A. A., **Bernardini, F.** et al. ApJ, 852, 90.

[paper-link](#)

2017: “The accretion environment of supergiant fast X-ray transients probed with XMM-Newton”

Bozzo, E.; **Bernardini, F.**; Ferrigno, C.; Falanga, M.; Romano, P.; Oskinova, L. A&A, 698, 128.

[paper-link](#)

2017: “IGR J19552+0044: A new asynchronous short period polar. Filling the gap between intermediate and ordinary polars”.

Tovmassian, G. et al. A&A, 608, 36.

[paper-link](#)

2017: “Broad-band characteristics of seven new hard X-ray selected cataclysmic variables”

Bernardini, F. et al. 2017, MNRAS, 470, 4815

[paper-link](#)

2017: “Up and Down the Black Hole Radio/X-Ray Correlation: The 2017 Mini-outbursts from Swift J1753.5-0127”.

Plotkin, R. M. et al. ApJ, 848, 92.

[paper-link](#)

2017: “Disc-jet coupling in low-luminosity accreting neutron stars”.

Tudor, V. et al. MNRAS, 470, 324.

[paper-link](#)

2017: “Optical Precursors to Black Hole X-ray Binary Outbursts: An evolving synchrotron jet spectrum in Swift J1357.2-0933”

Russell, D. M.; Qasim, A.; **Bernardini F.**, et al. 2017, ApJ, 852, 90

[paper-link](#)

2017: “Multiwavelength monitoring of a very active dwarf nova AX J1549.8-5416 with an unusually high duty cycle”

Zhang, G. et al. 2017, MNRAS, 469, 4236

[paper-link](#)

2016: “On the Optical -- X-ray correlation from outburst to quiescence in Low Mass X-ray Binaries: the representative cases of V404 Cyg and Cen X-4”

Bernardini, F. et al. 2016, ApJ, 826, 149

[paper-link](#)

2016: “The variable spin-down rate of the transient magnetar XTE J1810-197”

Pintore, F.; **Bernardini F.** et al. 2016, MNRAS, 458, 2088

[paper-link](#)

2016: “Events leading up to the 2015 June Outburst of V404 Cyg”

Bernardini, F.; et al. 2016, ApJ, 818, L5

[paper-link](#)

2015: “Swift J0525.6+2416 and IGR J04571+4527: two new hard X-ray-selected magnetic cataclysmic variables identified with XMM-Newton”

Bernardini, F. et al. 2015, MNRAS, 453, 3100

[paper-link](#)

2015: “A Connection between Plasma Conditions near Black Hole Event Horizons and Outflow Properties”

Koljonen, K.I.I. et al. 2015, ApJ, 814, 139

[paper-link](#)

2015: "Unambiguous Detection of Reflection in Magnetic Cataclysmic Variables: Joint NuSTAR-XMM-Newton Observations of Three Intermediate Polars"

Mukai, K.; Rana, V.; **Bernardini, F.**; de Martino, D., 2015, ApJ, 807, L30

[paper-link](#)

2015: “Investigating variability of quiescent neutron stars in the globular clusters NGC 6440 and Terzan 5”

Walsh, A. R.; Cackett, E. M.; **Bernardini, F.**, MNRAS, 2015, 449, 1238

[paper-link](#)

2015: “Supergiant fast X-ray transients as an under-luminous class of supergiant X-ray binaries”

Bozzo, E.; Romano, P.; Ducci, L.; **Bernardini, F.**; Falanaga, M., AdSpR, 55, 1255

[paper-link](#)

2014: “Swift J2218.4+1925: a new hard-X-ray-selected polar observed with XMM-Newton”

Bernardini, F. et al. 2014, MNRAS, 455, 1403

[paper-link](#)

2014: “Multiwavelength search for counterparts of supersoft X-ray sources in M31”

Chiosi, R.; Orio, M.; **Bernardini, F.**; Henze, M.; Jamialahmadi, N., 2014, MNRAS, 443, 1821

[paper-link](#)

2014: “Characterizing the quiescent X-ray variability of the black hole low mass x-ray binary V404 Cyg”

Bernardini, F.; Cackett, E.M., 2014, MNRAS, 439, 2771

[paper-link](#)

2013: “Daily multiwavelength Swift monitoring of the neutron star low-mass X-ray binary Cen X-4: evidence for accretion and reprocessing during quiescence”

Bernardini, F. et al. 2013, MNRAS, 436, 2465

[paper-link](#)

2013: “On the nature of the hard X-ray sources SWIFT J1907.3-2050, IGR J12123-5802 and IGR J19552+0044”

Bernardini, F. et al. 2013, MNRAS, 435, 2822

[paper-link](#)

2012: “Characterization of new hard X-ray cataclysmic variables”

Bernardini, F. et al. 2012, A&A 542, A22

[paper-link](#)

2011: “Emission Geometry, Radiation Pattern, and Magnetic Topology of the Magnetar XTE J1810-197 in its Quiescent State”

Bernardini, F. et al. 2011, MNRAS, 418, 638

[paper-link](#)

2011: "Multi-instrument X-ray monitoring of the January 2009 outburst from the recurrent magnetar candidate 1E 1547-5408"

Bernardini, F. et al. 2011, A&A, 529, A19

[paper-link](#)

2010: "The Dust-scattering X-ray Rings of the Anomalous X-ray Pulsar 1E 1547.0-5408"

Tiengo, A. et al., 2010, ApJ, 710, 227

[paper-link](#)

2009: "From outburst to quiescence: the decay of the transient Anomalous X-ray Pulsar XTE J1810-197"

Bernardini, F. et al. 2009, A&A, 498, 195

[paper-link](#)

2009: "The first outburst of the new magnetar candidate SGR0501+4516"

Rea N. et al., 2009, MNRAS, 396, 2419

[paper-link](#)

2009: "The supergiant fast X-ray transient IGRJ18483-0311 in quiescence: XMM-Newton, Swift and Chandra observations"

Giunta, A.; Bozzo, E.; **Bernardini, F.**; Israel, G.; Stella, L.; Falanga, M.; Campana, S.; Bazzano, A.; Dean, A. J.; Mendez, M., 2009, MNRAS, 399, 744

[paper-link](#)

Non-referred publications:

2017: "The black hole candidate Swift J1753.5-0127 is back in quiescence"

Zhang, G.; Russell, D. M.; **Bernardini F.**, et al. 2017, Atel 10562

[paper-link](#)

2017: "The optical flux of Swift J1753.5-0127 strikes back"

Bernardini, F. et al., 2017, Atel 10325

[paper-link](#)

2016: "V404 Cyg was in optical quiescence from mid October to mid December

Bernardini, F.; Russell, D. M.; Lewis, F., 2016, Atel 8515

[paper-link](#)

2015: "Faint optical precursor to the 2015 outburst of the black hole binary V404 Cyg"

Bernardini, F.; Russell, D. M.; Lewis, F., 2015, Atel 7761

[paper-link](#)

2015: "GX 339-4 is still in the soft state"

Bernardini, F.; Russell, D. M.; Lewis, F., 2015, Atel 7434

[paper-link](#)

2015: "Dissecting accretion and outflows in accreting white dwarf binaries"

de Martino, D.; Sala, G.; Balman, S.; **Bernardini, F.** et al., 2015, arXiv150102767D

[paper-link](#)

2014: "X-ray properties of hard X-ray Cataclysmic Variables"

de Martino, D.; **Bernardini, F.**; Mukai, K. and Falanga, M., 2014

[paper-link](#)

2014: "The tormented quiescence of the low mass X-ray binaries Cen X-4 and V404 Cyg"

Bernardini, F. & Cackett, E., 2014, "The X-ray Universe 2014", Dublin

[paper-link](#)

2014: “Long-term soft X-ray characterization of Supergiant Fast X-ray Transients: the cumulative luminosity distributions”

Bozzo, E.; Romano, P.; Ducci, L.; **Bernardini, F.**; Falanga, M., 2014, arXiv1412.4699B

[paper-link](#)

2014: “The Large Observatory for x-ray timing”

Feroci, M. and 336 coauthors, 2014, SPIE, 9144

[paper-link](#)

2014: “Optical monitoring of the M31 field object iPTF14gnj”

Bognar, K. et al., 2014, ATel 6705

[paper-link](#)

2014: “X-ray and UV correlation in the quiescent emission of Cen X-4, evidence of accretion and reprocessing”

Bernardini, F. et al. 2014, Proc. Int. Conf. “Physics at the Magnetospheric Boundary”, Geneva, Switzerland, EPJWC 6406007B

[paper-link](#)

2013: "Characterization of New Hard X-ray Cataclysmic Variables"

Bernardini, F., 2013, "American Astronomical Society, HEAD meeting #13"

[paper-link](#)

2011: "Observations of SGR and AXP with Swift. Magnetar outbursts and Flares in the Swift era:

Israel, G.; Romano, P.; Mangano, V.; **Bernardini, F.** et al. 2011, 2011sssf.confE..32I, "Swift and the Surprising Sky: The First Seven Years of Swift"

[paper-link](#)

2008: “Transient Phenomena in Anomalous X-ray Pulsars”

Israel, G.L., **Bernardini, F.**, Burgay, M., et al. 2008, “40 Years of Pulsars: Millisecond Pulsars, Magnetars and More, AIPC, 983, 244”

[paper-link](#)

Attended Workshop, Conferences, and invited talks

- 2018: Finnish Center for Astronomy with ESO, Finalnd

Invited speaker: A review on compact objects from an observational prospective.

- 2018: CNOX, Padova.

Invited speaker: A Census of Hard X-ray Selected Magnetic CVs.

- 2017: FTAPS2017, University of Sharjah, UAE

Oral contribution: Optical—X-ray correlation studies in Low Mass X-ray Binaries

- 2017: Black Hole Accretion and Jets, Kathmandu, Nepal

Oral contribution: On the optical-X-ray correlation from outburst to quiescence in Low-mass X-ray binaries: the cases of V404 Cyg and Cen X-4

Poster contribution: Events leading up to the 2015 June Outburst of V404 Cyg

- 2016: Exploring the X-ray transient and variable sky, Pavia, Italy

Oral contribution: The Faulkes Low-Mass X-ray binaries monitoring project and the 2015 June Outburst of V404 Cyg

- 2016: IUCAA, Pune, India.

Invited speaker: Events leading up to the 2015 June Outburst of V404 Cyg

- 2015: IX CNOX (National Congress on Compact Object), Roma, Italy

Oral contribution: On the Optical- X-ray correlation from outburst to quiescence in Low Mass X-ray Binaries

- 2015: The Extremes of Black Hole accretion, Madrid, Spain

Poster Contribution: On the Optical- X-ray correlation from outburst to quiescence in Low Mass X-ray Binaries

- 2014: The X-ray Universe 2014, Dublin, Ireland

Oral contribution: The tormented quiescence of the low mass X-ray binaries Cen X-4 and V404 Cyg

- 2014: The structure and signals of Neutron Stars, from Birth to Death, Florence, Italy

Oral contribution: The tormented quiescence of the low mass X-ray binary Cen X-4

- 2013: VIII CNOX, Ferrara, Italy

Invited Speaker: X-ray properties of Hard X-ray CVs

- 2013: University of Michigan, USA

Invited Speaker: The tormented quiescence of the low mass X-ray binaries Cen X-4 and V404 Cyg

- 2013: Physics at the Magnetospheric Boundary, Geneva, Switzerland

Poster Contribution: Daily broadband monitoring of the neutron star low mass X-ray binary Cen X-4: evidence for accretion and reprocessing during quiescence

- 2013: American Astronomical Society, HEAD 13th Meeting. Monterey, California, USA

Poster Contribution: Characterization of new hard X-ray Cataclysmic Variables

- 2013: Compact Objects in Michigan: 1st Meeting

Invited Speaker: The neutron star low mass X-ray binary Cen X-4: learning from quiescent variability

- 2011: National congress on high-energy astrophysics data analysis, Palermo, Italy

Invited Speaker: Characterization of hard X-ray sources: a census of Magnetic CVs

- 2009: International Astronomical Union (IAU) XXVII General Assembly, Rio de Janeiro, Brazil

Poster Contribution: From outburst to quiescence: the decay of the transient magnetar XTEJ 1810-197

- 2009: VI CNOG 2009, Santa Margherita di Pula, Cagliari, Italy

Oral contribution: From outburst to quiescence: the decay of the transient magnetar XTEJ 1810-197

- 2008: High Energy Astrophysics Summer School, Urbino, Italy, sponsored by NASA & ESA. Week practical class focused on the INTEGRAL satellite data analysis
- 2008: Ciao workshop 2008, Chandra X-ray Center in Cambridge, USA