

Georgios Vasilopoulos

Contact Information

Postgraduate Associate

Observatoire astronomique de Strasbourg, CNRS

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Professional Experience

- **Postgraduate Associate:**

Observatoire astronomique de Strasbourg, CNRS

5/2021 – present

Strasbourg, France

- **Postgraduate Associate:**

Department of Astronomy, YALE University

9/2018 – 5/2021

New Haven, CT, USA

Supervisor: Prof. Charles D. Bailyn

- **Visiting researcher at Purdue University (Giannios Lab)**

Purdue University

2016 – 2017

Purdue, IN, USA

- **Ph.D student & Researcher at Max Planck Institute**

Max Planck Institute for Extraterrestrial Physics

2012 – 2018

Garching, Germany

- **Laboratory tutor (part time)**

University of Athens

9/2009 – 6/2012

Athens, Greece

Education

- **Ph.D., Physics-Astrophysics**

Technische Universität München

10/2018

Garching, Germany

Thesis Topic: *Study of highly magnetised accreting neutron stars in the Magellanic Clouds and beyond*

Advisers: Dr. Frank Haberl, Dr. Jochen Greiner

- **M.Sc., Astrophysics, Astronomy & Mechanics**

National & Kapodistrian University of Athens (NKUA), Faculty of Physics

7/2012

Athens, Greece

Thesis Topic: *Study of X-ray point sources populations in the direction of M31*

Advisers: Dr. Despina Hatzidimitriou

- **Bachelor, Physics**

National & Kapodistrian University of Athens (NKUA)

2009

Athens, Greece

Thesis Topic: *Dynamical Study of Globular Clusters in the Small Magellanic Cloud*

Advisers: Dr. Mary Kontizas

Awards & Grants

• NICER Cycle 3 GO Program, Received as PI	Funded by NASA: ~\$37,500	2021 – 2022
• TESS Cycle 3 GO Program, Unfunded CoI	Funded by NASA: ~\$40,000	2020 – 2021
• NuSTAR Cycle 6 GO Program, Received as PI	Funded by NASA: ~\$81,000	2020 – 2021
• NICER Cycle 2 GO Program, Received as PI	Funded by NASA: ~\$20,000	2020 – 2021
• NICER Cycle 2 GO Program, Received as PI	Funded by NASA: ~\$21,000	2020 – 2021
• NICER Cycle 2 GO Program, Received as PI	Funded by NASA: ~\$40,000	2020 – 2021
• NICER Cycle 2 GO Program, Unfunded CoI	Funded by NASA: ~\$20,000	2020 – 2021
• Swift Cycle 16 GO Program, Received as PI	Funded by NASA: ~\$40,000	2020 – 2021
• Chanda Cycle 21 GO Program, Unfunded CoI	Funded by NASA: ~\$60,000	2020 – 2021
• XMM-Newton AO-18 GO Program, Received as PI	Funded by NASA: ~\$68,000	2019 – 2020
• Swift Cycle 14 GO Program, Unfunded CoI	Funded by NASA: ~\$40,000	2018 – 2019
• Hellenic Astronomical Society, Best PhD prize	€ 1000	2019

Successful Observing Proposals

Space observatories (■: PI, □: CoI, ✓: ToO or DDT)

Selected by review panels through open calls

Telescope	Proposal Title	Year/Cycle
□ Chandra	Probing Radiatively Inefficient Accretion Flow in the Neutron Star X-ray Binary System Aquila X-1 (PI: Maitra, D.)	Cycle 21-22
□ TESS	Probing the radiative losses in high-mass gamma-ray binary PSR B1259-63 with TESS, <i>Swift</i> and FERMI (PI: Coley, J. B.)	
■ <i>NuSTAR</i>	Follow-up major outbursts from hard X-ray transients in the MCs	Cycle 6
□ <i>NICER</i>	A <i>NICER</i> view of the radiative losses in the high-mass gamma-ray binary PSR B1259-63, <i>Swift</i> and FERMI (PI: Coley, J. B.)	Cycle 3
■ <i>NICER</i>	Exploring the nature of the prolonged low flux state of NGC 300 ULX1	Cycle 3
■ <i>NICER</i>	Follow-up hard X-ray transients in the Magellanic Clouds	Cycle 3
■ <i>NICER</i>	Investigating hard X-ray transients in the Magellanic Clouds	Cycle 2
■ <i>NICER</i>	Multi-wavelength study of the fast flaring properties of black-hole X-ray binaries	Cycle 2
■ <i>NICER</i>	Exploring the prolonged low flux state of NGC 300 ULX1	Cycle 2
□ <i>NICER</i>	Constraining the evolution of the geometry of the unstable warped accretion disc in SMC X-1 (PI: Brumback, M.)	Cycle 2
■ <i>XMM-Newton</i>	Following the spectral and spin evolution of the longest-lived post-nova SSS	AO-20
□ <i>XMM-Newton</i>	Investigating new super-soft sources in the MC System (PI: Maitra, C.)	AO-20
□ <i>XMM-Newton</i>	Investigating hard X-ray transients in the MCs (PI: Haberl, F.)	AO-19,20
■ <i>XMM-Newton</i>	Investigating long period X-ray pulsars in the Large Magellanic Cloud	AO-18
□ <i>XMM-Newton</i>	In search of intermediate mass black holes in low luminosity AGN (PI: Koliopanos, F.)	AO-18,20
■ <i>XMM-Newton</i>	Investigating long period X-ray pulsars in the Large Magellanic Cloud	AO-17
□ <i>XMM-Newton</i>	Exploring supergiant shells in the west of the LMC (PI: Maggi, P.)	A0s-16/17
■ <i>XMM-Newton</i>	A pulsating, possible type Ia supernova progenitor in the LMC	AO-16
■ <i>XMM-Newton</i>	Investigating hard X-ray transients in the Magellanic Clouds	AO-16
■ <i>Swift</i>	Exploring the prolonged low flux state of NGC 300 ULX1	Cycle 16
□ <i>Swift</i>	Revealing the transient X-ray binary population of the LMC (PI: Antoniou)	Cycle 14

Target of Opportunity Observations (ToO)

Observing time awarded through instruments Director Discretionary Time (DDT)

✓ □ *HST*, ✓ ■ *NICER*, ✓ ■ *XMM-Newton*, ✓ ■ *NuSTAR*, ✓ ■ *Chandra*, ✓ ■ *ASTROSAT*

✓ ■ *Swift*: over 50 TOOs for transient systems with over 500 ks awarded time (2012-2021)

Ground-based facilities

Allocated observing time:

• 2021A	<i>Study of the fast flaring properties of X-ray binaries</i> (PI)	Palomar 200" Hale, 2 nights
• 2020B	<i>Study of the fast flaring properties of active X-ray binaries</i> (PI)	Palomar 200" Hale, 2 nights
• 2020A	<i>Study of the fast flaring properties of active X-ray binaries</i> (PI)	Palomar 200" Hale, 3 nights
• 2016B	<i>GROND observations of "peculiar" binaries in the SMC</i>	MPE/ESO 2.2
• 2016B	<i>FEROS observations of new Be/X-ray binaries in the LMC/SMC</i>	MPE/ESO 2.2
• 2015B	<i>FEROS observations of two Be/X-ray binaries in the SMC</i>	MPE/ESO 2.2

Observational experience:

MPG/ESO 2.2m telescope	Observer (20+ nights)
Campus Observatory Garching:	Observer (20+ nights)
Skinakas Observatory:	Observer (4 nights)
PALOMAR 200" Hale Telescope	Remote observer (10+ nights)
SMARTS 1.3 m	Science Team, scheduling

Synergistic Activities & Professional Service

Review/Refereeing

- Proposal reviewer for NASA review panels.
- Chair & deputy for NASA review panels
- Referee for scientific journals: Monthly Notices of the Royal Astronomical (MNRAS), Nature Astronomy, The Astrophysical Journal (ApJ)

Organizing committees

- Member of Strasbourg Observatory Astro-coffee talks organizing committee (2021-2022)
- Scientific organizer for EWASS 2019 special session:
From X-ray pulsars to pulsating ULXs: Accretion onto highly magnetized neutron stars
- Member of Yale Colloquium organizing committee (2019-2020)
- Introductory course organization for “The Yale Summer Program in Astrophysics” (2019)
- Development and organization of advanced laboratory course in Technical University of Munich.

Science working groups

- eROSITA: External Collaborator in Nearby Galaxies, Compact Objects Working Group
- STROBE-X: *A probe-class mission concept headed to the Decadal Survey on Astronomy and Astrophysics (ASTRO2020).*

Press releases & Media

- Phys org: Ultra-luminous X-ray pulsar NGC 300 ULX1 experienced unprecedented spin evolution, study finds
- Science Nugget: eROSITA points NICER to a rare X-ray binary outburst in the Large Magellanic Cloud
- Science Nugget: NICER discovers 9.29 sec pulsations in RX J0209.6-7427

Memberships

- Member of the Hellenic Astronomical Society (Hel.A.S.)
- Member of the European Astronomical Society (EAS)
- Member of the American Astronomical Society (AAS)
- Member of the AAS High Energy Astrophysics Division (HEAD)

Supervision & Mentoring

- **Helena Treiber** undergraduate student (Class of 2022), *Amherst College* **2020 – present**
Supervision of research project.
- **Mark Polkas**, graduate student, *University of Athens* **2019 – 2021**
Co-supervision of Master thesis (supervisor: A. Mastichiadis & M. Petropoulou)
- **Margaritis Chatzis**, undergraduate student, *University of Crete* **2019 – present**
Mentoring/Co-supervision of bachelor thesis (supervisor: M. Petropoulou)
- **Alyssa Cassity**, undergraduate student (Class of 2020), *Smith College* **2019**
Supervision of summer research project. Resulted in senior thesis and presentation at AAS 235 meeting.
- **Sean Byrne**, undergraduate student, *Central Connecticut State University* **2019 – 2020**
Co-supervision of summer research project & senior thesis (Supervisor: Charles Bailyn)
Resulted in senior thesis and presentation at AAS 235 meeting.

- **George Dimopoulos**, graduate student, *University of Athens*
Supervision/Mentoring of summer research project.

2019 – 2020

Teaching Experience

- **Guest Lecturer**, *University of Athens*
”Introduction to Astrophysics”, undergraduate level 2021
”High-Energy Astrophysics”, undergraduate level 2021
Online seminar: programming with python, undergraduate level 2020
”Observational Astrophysics”, graduate level 2020
- **Guest Lecturer**, *Yale University*
20 h introductory course for Yale summer program in astrophysics, undergraduate level 2019

Laboratory Tutor

Physics department, University of Athens Athens, Greece

- Physics I (Classical Mechanics), 1st year undergraduate laboratory course. 2009 – 2011
- Physics II (Molecular Physics - Heat), 1st year undergraduate laboratory course. 2009 – 2011

Physics department, Technische Universität München, Munich, Germany

- Basic Lab Course, 2nd year undergraduate laboratory course. 2013 – 2014
- Advanced Lab Course (FOPRA): Master & 3rd year undergraduate laboratory course. 2014 – 2015

Colaborators list

Bailyn, C. (Yale); Haberl, F. (MPE); Jaisawal, G. K. (National Space Institute); Hatzidimitriou. D. (UOA); Koliopanos, F. (IRAP/CNRS); Maitra, C. (MPE); Petropoulou, M. (Princeton); Ray, P. S. (NRL); Udalski, A. (Warsaw U. Obs.); Wilson-Hodge, C. A. (NASA Marshall Space Flight Center);

Presentations, Conferences & Talks

1. 15th Hel.A.S. conference (Virtually anywhere), 7 July 2021, *Contributed talk*
2. European Astronomical Society Annual Meeting (Virtually anywhere), 30 June 2021, *Contributed talk*
3. Strasbourg Observatory Astro Lunch, June 2021, *Invited talk*
4. 238th Meeting of the American Astronomical Society (Virtually anywhere), June 2021, *Contributed talk*
5. NICER Analysis Workshops (Virtual), May 2021, *Contributed talk*
6. NOA, IAASARS (Athens, GR), Feb 2021, *Invited Seminar talk*
7. UOI, University of Ioannina (Ioannina, GR), Nov 2020, *Invited Colloquium talk*
8. FORTH, institute for astrophysics (Crete, GR), Nov 2020, *Invited Seminar talk*
9. Chandra Frontiers in Time-Domain Science, Oct 2020, *Contributed talk*
10. 236th Virtual Meeting of the American Astronomical Society, June 2020. *Contributed talk*
11. 20 Years of Chandra, Boston (MA), USA, December 2019. *Contributed talk*
12. The 14th Hel.A.S. Conference, Volos, GR, July 2019. *Invited talk*
13. NRL seminar lunch talk, Washington DC, USA, May 2019. *Invited talk*
14. HEAD 17, Monterey (CA), USA, March 2019. *Contributed Poster*
15. Seminar talk at MPE, Garching, Germany, October 2018. *Invited talk*
16. BeXRBs 2017, Heraklion, GR, September 2017. *Contributed talk*
17. The 13th Hel.A.S. Conference, Heraklion, GR, July 2017. *Contributed talk*
18. The X-ray universe 2017, Rome, Italy, June 2017. *Contributed talk*
19. The 12th Hel.A.S. Conference, Thessaloniki, GR, July 2015. *Contributed talk*
20. HEG Retreat 2015, Bad Bayersoien, Germany, January 2015. *Invited talk*
21. BeXRB 2014, Valencia, Spain, July 2014. *Contributed talk*
22. Texas symposium, Dallas (TX), USA, December 2013. *Contributed talk*
23. The 11th Hel.A.S. Conference, Athens, GR, September 2013. *Contributed talk*
24. The 10th Hel.A.S. Conference, Ioannina, GR, September 2011. *Contributed Poster*

25. The X-ray Universe 2011, Berlin, Germany, June 2011. *Contributed Poster*
26. The 9th Hel.A.S. Conference, Athens, GR, September 2009. *Contributed Poster*

Publications

Statistics according to NASA ADS

Total publications and proceedings: 96

Refereed publications: 43 total / 13 as 1st Author

Total Citations: 784

Citations of most cited paper: 144

H-index: 15

List of accepted publications in Peer-Reviewed Journals

1. Stathopoulos, S; Petropoulou, M.; Giommi, P.; **Vasilopoulos, G.** et al. : *Probing Neutrino Emission from X-ray Blazar Flares observed with Swift-XRT* MNRAS, submitted
 ☞ **My contribution:** Supervision of master student, advisory role in their project.
2. Chatzis M.; Petropoulou, M.; **Vasilopoulos, G.**: *Radio emission from colliding outflows in high-mass X-ray binaries with strongly magnetized neutron stars*, MNRAS, accepted
 ☞ **My contribution:** Supervision of Undergraduate student, advisory role in their project.
3. Oikonomou F. et al: *Multi-messenger emission from the parsec-scale jet of the flat-spectrum radio quasar PKS 1502+106 coincident with high-energy neutrino IceCube-190730A*, JCAP. Accepted
 ☞ **My contribution:** Analysis of X-ray data
4. Polkas, M.; Petropoulou, M.; **Vasilopoulos, G.**; et al. (2021): *A numerical study of long-term multi-wavelength blazar variability*, MNRAS, MNRAS, 505, 6103
 ☞ **My contribution:** Study lead by an master student at UOA under the co-supervision of me and Prof. Dr. Petropoulou M.
5. Gúrpide, A.; Godet, O.; **Vasilopoulos, G.**; Webb, N.; Olive, J.-F. : *Discovery of superorbital periods and evolutionary cycles in the ultraluminous X-ray sources Holmberg II X-1 and NGC 5204 X-1*, A&A, accepted
6. Treiber, H.; **Vasilopoulos, G.**; et al. (2021): *RX J0529.8–6556: a BeXRB pulsar with an evolving optical period and out of phase X-ray outbursts*, MNRAS, 503, 6187
 ☞ **My contribution:** Study lead by an undergrad student under my supervision.
7. Maitra, C.; Haberl, F.; P. Maggi; P. J. Kavanagh; **Vasilopoulos, G.**; et al. (2021): *XMMU J050722.1–684758: Discovery of a new Be X-ray binary pulsar likely associated with the supernova remnant MCSNR J0507–6847*, MNRAS, 504, 326
 ☞ **My contribution:** Comparison of theoretical models with data, and writing parts of the discussion.
8. **Vasilopoulos, G.** et al. (2021): *Chandra probes the X-ray variability of M51 ULX-7: evidence of propeller transition and X-ray dips on orbital periods*, ApJ, 909, 50
9. Maitra, C.; Haberl, F.; **Vasilopoulos, G.**; et al. (2021): *Fast flaring observed from XMMU J053108.3–690923 by eROSITA: an SFXT in the Large Magellanic Cloud*, A&A, 647A, 8
 ☞ **My contribution:** Comparison of theoretical models with data, and writing of the discussion.
10. Koliopanos, F.; **Vasilopoulos, G.**; Guillot, S.; Webb, N. (2021): *Disappearance of the Fe K α emission line in Ultra Compact X-ray Binaries 4U 1543-624 and Swift J1756.9-2508*, MNSRS in press, (arxiv:2001.00713)
11. Koliopanos, F.; Peault, M.; **Vasilopoulos, G.**; Webb, N. (2021): *The chemical composition of the accretion disk and donor star in Ultra Compact X-ray Binaries: A comprehensive X-ray analysis*, MNSRS in press, (arxiv:2001.00716)
12. **Vasilopoulos, G.** et al. (2020): *Discovery of a \sim 30-Year-Duration Post-Nova Pulsating Supersoft Source in the Large Magellanic Cloud*, MNSRS, .499, 2007
13. Jaisawal, G.; Nail, S.; Ho, W.; Kumari, N.; Epili, P.; **Vasilopoulos, G.** (2020): *Revisiting the spectral and timing properties of 4U 1909+07 with NuSTAR and Astrosat*, MNSRS, 498, 4830
 ☞ **My contribution:** Temporal analysis of X-ray data and contribution in discussion.

14. Petropoulou, M. et al. (2020): *Comprehensive Multimessenger Modeling of the Extreme Blazar 3HSP J095507.9+355101 and Predictions for IceCube*, ApJ in Press (arxiv:2005.07218)
 ☞ **My contribution:** Analysis of observational data from Swift observatory.
15. Petropoulou, M. et al. (2020): *Deciphering the properties of the central engine in GRB collapsars*, MNRAS, accepted, arxiv:2006.07482
 ☞ **My contribution:** Participation in discussion and development of analysis scheme.
16. **Vasilopoulos, G.** et al. (2020): *The 2019 super-Eddington outburst of RXJ0209.6–7427: Detection of pulsations and constraints on the magnetic field strength*, MNRAS, 494, 5350
17. Tsygankov, S. S. et al. (2020): *The unusual behaviour of the young X-ray pulsar SXP 1062 during the 2019 outburst*, A&A, 637A, 33
 ☞ **My contribution:** participation in temporal analysis and discussion of the paper
18. Chen, A. Y.; Yuan, Y. (2020); Vasilopoulos, G. : *A Numerical Model for the Multi-wavelength Lightcurves of PSR J0030+0451*, APJ, 893L, 38
 ☞ **My contribution:** X-ray data analysis and discussion of the paper
19. Petropoulou, M. et al. (2020): *Multi-Epoch Modeling of TXS 0506+056 and Implications for Long-Term High-Energy Neutrino Emission*, ApJ, 891, 115
 ☞ **My contribution:** Analysis of X-ray data
20. **Vasilopoulos, G.**; Lander, S. K.; Koliopanos, F.; Bailyn, C. D. (2020): *M51 ULX-7: superorbital periodicity and constraints on the neutron star magnetic field*, MNRAS, 491, 4949
21. **Vasilopoulos, G.**; Petropoulou, M.; Koliopanos, F.; Ray, P. S. et al. (2019): *NGC 300 ULX1: spin evolution, super-Eddington accretion, and outflows*, MNRAS, 488, 5225
22. Lazzarini, M. et al. (2019): *Neutron Stars and Black Holes in the Small Magellanic Cloud: The SMC NuSTAR Legacy Survey*, ApJ, 884, 2
 ☞ **My contribution:** Temporal analysis of NuSTAR data.
23. Koliopanos, F.; **Vasilopoulos, G.**; Buchner, J.; Maitra, C.; Haberl, F. (2019): *Investigating ULX accretion flows and cyclotron resonance in NGC 300 ULX1*, A&A, 621A, 118
 ☞ **My contribution:** Bayesian data analysis. Modelling of spectral models, whitening 50% of the text.
24. **Vasilopoulos, G.**; Haberl, F.; Maitra, C.; Carpano, S. (2018): *NGC 300 ULX1: A test case for accretion torque theory*, A&A, 620L, 12
25. Maitra, C.; Paul, B.; Haberl, F.; **Vasilopoulos, G.** (2018): *Detection of a cyclotron line in SXP 15.3 during its 2017 outburst*, MNRAS, volume 480L, 136
 ☞ **My contribution:** Spectral and temporal analysis of X-ray data. Writing of the text.
26. Maravelias, G. et al. (2018): *Resolving the kinematics of the disks around Galactic B[e] supergiants*, MNRAS, volume 480, 320
 ☞ **My contribution:** Preparation and execution of optical spectroscopic observations for some targets.
27. Carpano, S.; Haberl, F.; Maitra, C.; **Vasilopoulos, G.** (2018): *Discovery of pulsations from NGC 300 ULX1 and its fast period evolution*, MNRAS, volume 476L, 45
 ☞ **My contribution:** Temporal analysis, interpretation of results, writing of the text.
28. Koliopanos, F.; **Vasilopoulos, G.** (2018): *Accreting, highly magnetized neutron stars at the Eddington limit: A study of the 2016 outburst of SMC X-3*, A&A, volume 614A, 23
 ☞ **My contribution:** All authors contributed equally.
29. van Jaarsveld, N. et al. (2018): *Identification of High Mass X-ray Binaries selected from XMM-Newton observations of the LMC*, MNRAS, volume 475, 3253
 ☞ **My contribution:** Preparation of X-ray selected sample and selection of targets. Analysis of OGLE light curves.
30. **Vasilopoulos G.**; Maitra C.; Haberl F.; Hatzidimitriou D.; Petropoulou M. (2018): *Identification of two new HMXBs in the LMC: a ~2013 s pulsar and a probable SFXT*, MNRAS, volume 475, 220

31. Petropoulou M.; **Vasilopoulos G.**; Christie I. M.; Giannios D.; Coe M. J. (2018): *X-ray mapping of the stellar wind in the binary PSR J2032+4127/MT91 213*, MNRAS, volume 474L, 22
 ☞ **My contribution:** X-ray data analysis, modeling of the interaction of the inhomogeneous stellar wind with the Pulsar Wind.
32. Koliopoulos F.; **Vasilopoulos G.** et al. (2017): *ULX spectra revisited: Accreting, highly magnetized neutron stars as the engines of ultraluminous X-ray sources*, A&A, volume 608A, 47
 ☞ **My contribution:** spectral modeling of ULX spectra, interpretation of the results, writing of the text.
33. **Vasilopoulos, G.**; Haberl, F.; Maggi, P. (2017): *Identification of IGR J01217-7257 with the transient SMC pulsar XTE J0119-731 (SXP 2.16) using XMM-Newton*, MNRAS, volume 470, 1971
34. **Vasilopoulos, G.**; Zezas, A.; Antoniou, V.; Haberl, F. (2017): *SXP 15.6: X-ray spectral and temporal properties of a newly discovered pulsar in the SMC*, MNRAS, volume 470, 4354
35. Petropoulou M., Coenders S., **Vasilopoulos, G.**, Kamble A., Sironi L. (2017): *Point-source and diffuse high-energy neutrino emission from Type II supernovae*, MNRAS, volume 470, 1881
 ☞ **My contribution:** implementation of the Monte Carlo simulation, statistical analysis of the data.
36. Haberl F. et al. (2017): *EXtraS discovery of two pulsators in the direction of the LMC: a Be/X-ray binary pulsar in the LMC and a candidate double-degenerate polar in the foreground*, A&A, volume 598A, 694
 ☞ **My contribution:** spectral and temporal analysis of X-ray data. Temporal analysis of optical light-curves.
37. Petropoulou M., **Vasilopoulos, G.**, Giannios, D. (2017): *The TeV emission of Ap Librae: a hadronic interpretation and prospects for CTA*, MNRAS, 464, 2213
 ☞ **My contribution:** Data analysis, and modeling of CTA predictions.
38. **Vasilopoulos, G.** et al. (2016): *Multi-wavelength properties of IGR J05007-7047 (LXP 38.55) and identification as a Be X-ray binary pulsar in the LMC*, MNRAS, volume 461, 1875
39. **Vasilopoulos, G.** & Petropoulou M. (2016): *The X-ray dust scattered rings of the black hole low mass X-ray binary V404 Cygni*, MNRAS, Volume 455, 4426
40. Maggi, P. et al. (2016): *The population of X-ray supernova remnants in the Large Magellanic Cloud*, A&A, Volume 585A, 162M
 ☞ **My contribution:** Statistical properties of the SNR population, e.g. X-ray luminosity function.
41. **Vasilopoulos, G.**; Haberl, F.; Sturm, R.; Maggi, P.; Udalski, A. (2014): *Spectral and temporal properties of RX J0520.5-6932 (LXP 8.04) during a type-I outburst*, A&A, 567, A129
42. Williams, B. F. et al. (2014): *A spectroscopic search for high-mass X-ray binaries in M31*, MNRAS, Volume 443, 2499
 ☞ **My contribution:** Part of my master thesis: Selection of the HMXB candidates that were used for the spectroscopic observations. Preparation of optical observations. Correlation of HMXB position and star formation history of M31.
43. Sturm, R.; Haberl, F.; **Vasilopoulos, G.**; et al. (2014): *Discovery of SXP265, a Be/X-ray binary pulsar in the Wing of the Small Magellanic Cloud*, MNRAS, volume 444, 3571
 ☞ **My contribution:** Temporal analysis of the optical light-curves.
44. **Vasilopoulos, G.** et al. (2013): *Swift J053041.9-665426, a new Be/X-ray binary pulsar in the Large Magellanic Cloud*, A&A, Volume 558, A74

White Papers: List of white paper prepared for the Decadal Survey on Astronomy and Astrophysics (Astro2020).

1. Ray, P. S., et al. (2019), *STROBE-X: X-ray Timing and Spectroscopy on Dynamical Timescales from Microseconds to Years*, (arXiv:1903.03035)