

Arash Bahramian

Curriculum Vitæ

Lecturer
International Centre for Radio Astronomy Research
Curtin University
Perth, Australia

arash.bahramian@curtin.edu.au

<https://bersavosh.github.io/>

Employment

- 2020 - present **Lecturer**
International Centre for Radio Astronomy Research (ICRAR)
Curtin Institute for Radio Astronomy (CIRA)
Curtin University, Perth, Australia
- 2018 - 2020 **Research Associate**
International Centre for Radio Astronomy Research (ICRAR)
Curtin Institute for Radio Astronomy (CIRA)
Curtin University, Perth, Australia
- 2016 - 2018 **Research Associate**
Center for Data Intensive and Time Domain Astronomy
Michigan State University, East Lansing, Michigan, USA

Education

- 2011 - 2016 Ph.D. Physics
University of Alberta, Edmonton, Alberta, Canada
Supervisor: C.O. Heinke

Mentoring and Supervision

Physics and Astronomy

- 2023 - Present Ben Burridge, PhD co-supervisor, Curtin University
Research on study of X-ray binaries with SKA pathfinders and precursors
- 2022 - Present Callan Wood, PhD co-supervisor, Curtin University
Research on advanced techniques in high-resolution radio imaging of black holes
- 2021 - Present Tyrone O'Doherty, PhD co-supervisor, Curtin University
Research on population and kinematics of Galactic neutron stars and black holes
- 2020 - 2023 Alessandro Paduano, PhD supervisor, Curtin University
Research on black holes and neutron stars in star clusters
- 2018 - 2021 Pikky Atri, PhD co-supervisor, Curtin University
Research on kinematics of Galactic black holes through VBLI
- 2019 - 2020 Alessandro Paduano, Honours undergraduate supervisor, Curtin University
Research on X-ray variability of high-mass X-ray binaries
- 2017 Jacob Davison, REU project mentor, Michigan State University
Research on multi-wavelength study of a transient X-ray binary

Inter-disciplinary

- 2022 - Present Shih Ching Fu, PhD supervisor, Curtin University
Research on statistical modeling of astronomical time-series
- 2023 - Present Blake Glossop, Honours Undergraduate Supervisor, Curtin University
Research on statistical spatial modeling of star clusters
- 2021 Mark Charlesworth, Honours Undergraduate Supervisor, Curtin University
Research on statistical modeling of globular cluster properties and population of X-ray binaries
- 2021 Amy Dutton, Actuarial Sciences Industrial project Supervisor (MATH 3004), Curtin University
Research of efficacy of supervised methods on identification of peculiar systems in large astronomical datasets

2021	Industry Capstone Computing Project Supervisor, Curtin University Rohan Khayech, Ryan Martin, Greg Lahaye, Nathan Sutardi, Tully Slattery
2020	Industry Capstone Computing Project Supervisor, Curtin University Kaan Altintas, Allison Chan, Justin Ow, Adam Parsons, Emma Puls

Teaching

- Statistical Mechanics (PHYS 2002)
- Advanced topics in Astrophysics: Astrostatistics (PHYS 4003)
- Introduction to data science (STAT 1003)
- Data visualization (STAT 3011)

Engagement with Industry

2020	Data Science Consultant University of Nottingham & Google Inc.
2018	Data Science Consultant Wesfarmers Chemicals, Energy & Fertilisers

Fellowships and Awards

2022, 2023	Research and Engagement Award <i>Curtin University</i>
2015	Andrew Stewart Memorial Graduate Research Prize <i>University of Alberta</i>
2013	Best Student Poster Award <i>Canadian Astronomical Society Meeting 2013 (Vancouver, Canada)</i>
2013	Graduate Student Teaching Award <i>Faculty of Science, University of Alberta</i>

Professional service

Academic Service

- Federal grant reviewer (The Dutch Research Council - NWO)
- Manuscript referee (Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, The Astrophysical Journal)
- Served on NASA observatory time allocation committees (NuSTAR, Chandra)
- Member of the Australia Telescope National Facility time allocation committee
- Member of the Athena X-ray observatory International Science Working Team
- Contributed to white papers for the Canadian Astronomical Long Range Plan on Astro-statistics (Eadie et al.) and globular clusters (Henault-Brunet et al.)

Departmental Service

- Certified Mental Health First Aider, Curtin University (2020-present)
- Curtin Astro-Statistics inter-disciplinary interest group founder/leader (2021-present)
- Conference organizer, Compact Objects in Michigan 5 (2017)

Recent Professional Talks (selected)

2023	10th Microquasar workshop (Crete, Greece)
2021	Towards formation of black-hole binaries conference (Kyoto University, virtual), Invited Talk
2021	University of Gottingen (Gottingen, Germany - virtual), Invited Talk
2020	Committee on Space Research Annual meeting (Sydney, Australia - virtual), Invited Talk
2020	Chandra Frontiers in Time-Domain Science (Cambridge, MA, USA - virtual), Invited Talk
2018	Modelling and Observing Dense Stellar Systems conference (Santorini, Greece)

Accepted Observatory/Funding Proposals

I have led **14 successful observatory proposals** requesting competitive observing time (+funding) at large international observatories and have been a contributor to further 30 successful proposals as a co-investigator. All of these successful proposals have secured over \$500k USD in funding.

Press releases based on publications

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|------|--|
| 2021 | <i>“First black hole ever detected is more massive than we thought”</i> |
| 2020 | <i>“A Cosmic Jekyll and Hyde”</i> |
| 2018 | <i>“Donor star breathes life into zombie companion”</i> |
| 2017 | <i>“MSU contributes to LIGO’s merging neutron star discovery”</i> |
| 2017 | <i>“Star Discovered in Closest Known Orbit Around Likely Black Hole”</i> |
| 2016 | <i>“Clandestine Black Hole May Represent New Population”</i> |

Arash Bahramian

List of publications

Refereed Publications

Since 2012 I have had a total of 95 peer-reviewed publications, 11 as the first-author, 16 as second author, 6 led by my PhD students. These publications have accumulated a total of 2500 citations, and an H-index of 27 (as reported by the NASA Astrophysical Data System by November 2023).

In reverse chronological order:

1. Prabu, S., Miller-Jones, J. C. A., **Bahramian, A.**, Wood, C. M., Tingay, S. J., Atri, P., Plotkin, R. M., & Strader, J., 2023, “*Probing the jet size of two black hole X-ray binaries in the hard state*”, [Monthly Notices of the Royal Astronomical Society](#), **525**, 4426.
2. Dage, K. C., **Bahramian, A.**, James, C. W., Kundu, A., Rhode, K. L., Strader, J., Vesperini, E., & Zepf, S. E., 2023, “*Is the M81 Fast Radio Burst Host Globular Cluster Special?*”, [The Astrophysical Journal](#), **957**, L17.
3. Tian, J., Anderson, G. E., Cooper, A. J., Gourdji, K., Sokolowski, M., Rowlinson, A., Williams, A., Sleap, G., Dobie, D., Kaplan, D. L., Murphy, T., Tingay, S. J., Panther, F. H., Lasky, P. D., **Bahramian, A.**, Miller-Jones, J. C. A., James, C. W., Meyers, B. W., McSweeney, S. J., & Hancock, P. J., 2023, “*MWA rapid follow-up of gravitational wave transients: Prospects for detecting prompt radio counterparts*”, [Publications of the Astronomical Society of Australia](#), **40**, e050.
4. Romero-Shaw, I., Hirai, R., **Bahramian, A.**, Willcox, R., & Mandel, I., 2023, “*Rapid population synthesis of black hole high-mass X-ray binaries: implications for binary stellar evolution*”, [Monthly Notices of the Royal Astronomical Society](#), **524**, 245.
5. Anderson, G. E., Russell, T. D., Fausey, H. M., van der Horst, A. J., Hancock, P. J., **Bahramian, A.**, Bell, M. E., Miller-Jones, J. C. A., Rowell, G., Sammons, M. W., Wijers, R. A. M. J., Galvin, T. J., Goodwin, A. J., Konno, R., Rowlinson, A., Ryder, S. D., Schüssler, F., Wagner, S. J., & Zhu, S. J., 2023, “*Rapid radio brightening of GRB 210702A*”, [Monthly Notices of the Royal Astronomical Society](#), **523**, 4992.
6. Lee-Waddell, K., James, C. W., Ryder, S. D., Mahony, E. K., **Bahramian, A.**, Koribalski, B. S., Kumar, P., Marnoch, L., North-Hickey, F. O., Sadler, E. M., Shannon, R., Tejos, N., Thorne, J. E., Wang, J., & Wayth, R., 2023, “*The host galaxy of FRB 20171020A revisited*”, [Publications of the Astronomical Society of Australia](#), **40**, e029.
7. Hurley-Walker, N., Rea, N., McSweeney, S. J., Meyers, B. W., Lenc, E., Heywood, I., Hyman, S. D., Men, Y. P., Clarke, T. E., Coti Zelati, F., Price, D. C., Horváth, C., Galvin, T. J., Anderson, G. E., **Bahramian, A.**, Barr, E. D., Bhat, N. D. R., Caleb, M., Dall’Ora, M., de Martino, D., Giacintucci, S., Morgan, J. S., Rajwade, K. M., Stappers, B., & Williams, A., 2023, “*A long-period radio transient active for three decades*”, [Nature](#), **619**, 487.
8. Wood, C. M., Miller-Jones, J. C. A., **Bahramian, A.**, Tingay, S. J., Russell, T. D., Tetarenko, A. J., Altamirano, D., Belloni, T., Carotenuto, F., Ceccobello, C., Corbel, S., Espinasse, M., Fender, R. P., Körding, E., Migliari, S., Russell, D. M., Sarazin, C. L., Sivakoff, G. R., Soria, R., & Tudose, V., 2023, “*Time-dependent visibility modelling of a relativistic jet in the X-ray binary MAXI J1803-298*”, [Monthly Notices of the Royal Astronomical Society](#), **522**, 70.
9. Pichardo Marcano, M., Rivera Sandoval, L. E., Maccarone, T. J., Rohrmann, R. D., Heinke, C. O., Belloni, D., Althaus, L. G., & **Bahramian, A.**, 2023, “*A candidate magnetic helium-core white dwarf in the globular cluster NGC 6397*”, [Monthly Notices of the Royal Astronomical Society](#), **521**, 5026.
10. O’Doherty, T. N., **Bahramian, A.**, Miller-Jones, J. C. A., Goodwin, A. J., Mandel, I., Willcox, R., Atri, P., & Strader, J., 2023, “*An observationally derived kick distribution for neutron stars in binary systems*”, [Monthly Notices of the Royal Astronomical Society](#), **521**, 2504.
11. **Bahramian, A.**, Tremou, E., Tetarenko, A. J., Miller-Jones, J. C. A., Fender, R. P., Corbel, S., Williams, D. R. A., Strader, J., Carotenuto, F., Salinas, R., Kennea, J. A., Motta, S. E., Woudt, P. A., Matthews, J. H., & Russell, T. D., 2023, “*MAXI J1848-015: The First Detection of Relativistically Moving Outflows from a Globular Cluster X-Ray Binary*”, [The Astrophysical Journal](#), **948**, L7.

12. Hu, C.-P., Dage, K. C., Clarkson, W. I., Brumback, M., Charles, P. A., Haggard, D., Hickox, R. C., Mihara, T., **Bahramian, A.**, Karam, R., Athukoralalage, W., Altamirano, D., Neilsen, J., & Kennea, J., 2023, “*Monitoring observations of SMC X-1’s excursions (MOOSE) - II. A new excursion accompanies spin-up acceleration*”, *Monthly Notices of the Royal Astronomical Society*, **520**, 3436.
13. Panurach, T., Urquhart, R., Strader, J., Chomiuk, L., **Bahramian, A.**, Heinke, C. O., Maccarone, T. J., Miller-Jones, J. C. A., & Sivakoff, G. R., 2023, “*Tracking the Enigmatic Globular Cluster Ultracompact X-Ray Binary X1850-087: Extreme Radio Variability in the Hard State*”, *The Astrophysical Journal*, **946**, 88.
14. **Bahramian, A.**, & Degenaar, N., 2023, “*Low-Mass X-ray Binaries*”, Invited chapter for *Handbook of X-ray and Gamma-ray Astrophysics* (Editors: C. Bambi and A. Santangelo), Springer 2023.
15. Athukoralalage, W. R., Dage, K. C., Zepf, S. E., Bahramian, A., Cackett, E. M., Kundu, A., & Maccarone, T. J., 2023, “*Optical and X-ray follow-up to a globular cluster ultraluminous X-ray source in NGC 4472*”, *Monthly Notices of the Royal Astronomical Society*, **518**, 855.
16. Atri, P., Miller-Jones, J. C. A., Bahramian, A., Plotkin, R. M., Maccarone, T. J., Marcote, B., Heinke, C. O., Sivakoff, G. R., Ginsburg, A., Strader, J., & Chomiuk, L., 2022, “*Astrometry of variable compact radio sources: a search for Galactic black hole X-ray binaries*”, *Monthly Notices of the Royal Astronomical Society*, **517**, 5810.
17. Rea, N., Coti Zelati, F., Dehman, C., Hurley-Walker, N., de Martino, D., Bahramian, A., Buckley, D. A. H., Brink, J., Kawka, A., Pons, J. A., Viganò, D., Gruber, V., Ronchi, M., Pardo Araujo, C., Borghese, A., Parent, E., & Galvin, T. J., 2022, “*Constraining the Nature of the 18 min Periodic Radio Transient GLEAM-X J162759.5-523504.3 via Multiwavelength Observations and Magneto-thermal Simulations*”, *The Astrophysical Journal*, **940**, 72.
18. Shaw, A. W., Miller, J. M., Grinberg, V., Buisson, D. J. K., Heinke, C. O., Plotkin, R. M., Tomsick, J. A., **Bahramian, A.**, Gandhi, P., & Sivakoff, G. R., 2022, “*High resolution X-ray spectroscopy of V4641 Sgr during its 2020 outburst*”, *Monthly Notices of the Royal Astronomical Society*, **516**, 124.
19. Sokolovsky, K. V., Strader, J., Swihart, S. J., Aydi, E., **Bahramian, A.**, Chomiuk, L., Heinke, C. O., Hughes, A. K., Li, K.-L., de Oliveira, R. L., Miller-Jones, J. C. A., Mukai, K., Sand, D. J., Shishkovsky, L., Tremou, E., & Voggel, K., 2022, “*1RXH J082623.6-505741: A New Long-period Cataclysmic Variable with an Evolved Donor and a Low Mass-transfer Rate*”, *The Astrophysical Journal*, **934**, 142.
20. Barbisan, E., Huang, J., Dage, K. C., Haggard, D., Arnason, R., **Bahramian, A.**, Clarkson, W. I., Kundu, A., & Zepf, S. E., 2022, “*Using machine learning to identify extragalactic globular cluster candidates from ground-based photometric surveys of M87*”, *Monthly Notices of the Royal Astronomical Society*, **514**, 943.
21. Russell, T. D., Del Santo, M., Marino, A., Segreto, A., Motta, S. E., **Bahramian, A.**, Corbel, S., D’Aì, A., Salvo, T. D., Miller-Jones, J. C. A., Pinto, C., Pintore, F., & Tzioumis, A., 2022, “*Investigating the nature and properties of MAXI J1810-222 with radio and X-ray observations*”, *Monthly Notices of the Royal Astronomical Society*, **513**, 6196.
22. Tudor, V., Miller-Jones, J. C. A., Strader, J., **Bahramian, A.**, Shishkovsky, L., Plotkin, R. M., Chomiuk, L., Heinke, C. O., Maccarone, T. J., Sivakoff, G. R., Tremou, E., Anderson, G. E., Russell, T. D., & Tzioumis, A. K., 2022, “*The MAVERIC survey: a catalogue of radio sources in southern globular clusters from the Australia Telescope Compact Array*”, *Monthly Notices of the Royal Astronomical Society*, **513**, 3818.
23. Dage, K. C., Brumback, M., Neilsen, J., Hu, C.-P., Altamirano, D., **Bahramian, A.**, Charles, P. A., Clarkson, W. I., Haggard, D., Hickox, R. C., & Kennea, J., 2022, “*Monitoring Observations of SMC X-1’s Excursions (MOOSE) I: Program Description and Initial High-State Spectral Results*”, *Monthly Notices of the Royal Astronomical Society*.
24. Paduano, A., **Bahramian, A.**, Miller-Jones, J. C. A., Kawka, A., Göttgens, F., Strader, J., Chomiuk, L., Kamann, S., Dreizler, S., Heinke, C. O., Husser, T.-O., Maccarone, T. J., Tremou, E., & Zhao, Y., 2021, “*The MAVERIC Survey: The first radio and X-ray limits on the detached black holes in NGC 3201*”, *Monthly Notices of the Royal Astronomical Society*.
25. Andrés, A., van den Eijnden, J., Degenaar, N., Evans, P. A., Chatterjee, K., Reynolds, M., Miller, J. M., Kennea, J., Wijnands, R., Markoff, S., Altamirano, D., Heinke, C. O., **Bahramian, A.**, Ponti, G., & Haggard, D., 2021, “*A Swift study of long-term changes in the X-ray flaring properties of Sagittarius A**”, *Monthly Notices of the Royal Astronomical Society*.

26. Hurley-Walker, N., Zhang, X., **Bahramian, A.**, McSweeney, S. J., O'Doherty, T. N., Hancock, P. J., Morgan, J. S., Anderson, G. E., Heald, G. H., & Galvin, T. J., 2022, “*A radio transient with unusually slow periodic emission*”, *Nature*, **601**, 526.
27. Dage, K. C., Vowell, N., Thygesen, E., **Bahramian, A.**, Haggard, D., Kovlakas, K., Kundu, A., Maccarone, T. J., Strader, J., Urquhart, R., & Zepf, S. E., 2021, “*Ultraluminous X-ray sources in seven edge-on spiral galaxies*”, *Monthly Notices of the Royal Astronomical Society*, **508**, 4008.
28. Masington, E., Maccarone, T. J., Sandoval, L. R., Heinke, C., **Bahramian, A.**, & Shaw, A. W., 2021, “*An Analysis of X-Ray Hardness Ratios between Asynchronous and Non-Asynchronous Polars*”, *Journal of the American Association of Variable Star Observers (JAAVSO)*, **49**, 149.
29. Panurach, T., Strader, J., **Bahramian, A.**, Chomiuk, L., Miller-Jones, J. C. A., Heinke, C. O., Maccarone, T. J., Shishkovsky, L., Sivakoff, G. R., Tremou, E., Tudor, V., & Urquhart, R., 2021, “*The MAVERIC Survey: Variable Jet-accretion Coupling in Luminous Accreting Neutron Stars in Galactic Globular Clusters*”, *The Astrophysical Journal*, **923**, 88.
30. van den Eijnden, J., Degenaar, N., Russell, T. D., Wijnands, R., **Bahramian, A.**, Miller-Jones, J. C. A., Hernández Santisteban, J. V., Gallo, E., Atri, P., Plotkin, R. M., Maccarone, T. J., Sivakoff, G., Miller, J. M., Reynolds, M., Russell, D. M., Maitra, D., Heinke, C. O., Armas Padilla, M., & Shaw, A. W., 2021, “*A new radio census of neutron star X-ray binaries*”, *Monthly Notices of the Royal Astronomical Society*, **507**, 3899.
31. Stoop, M., van den Eijnden, J., Degenaar, N., **Bahramian, A.**, Swihart, S. J., Strader, J., Jiménez-Ibarra, F., Muñoz-Darias, T., Armas Padilla, M., Shaw, A. W., Maccarone, T. J., Wijnands, R., Russell, T. D., Hernández Santisteban, J. V., Miller-Jones, J. C. A., Russell, D. M., Maitra, D., Heinke, C. O., Sivakoff, G. R., Lewis, F., & Bramich, D. M., 2021, “*Multiwavelength observations reveal a faint candidate black hole X-ray binary in IGR J17285-2922*”, *Monthly Notices of the Royal Astronomical Society*, **507**, 330.
32. Chauhan, J., Miller-Jones, J. C. A., Anderson, G. E., Paduano, A., Sokolowski, M., Flynn, C., Hancock, P. J., Hurley-Walker, N., Kaplan, D. L., Russell, T. D., **Bahramian, A.**, Duchesne, S. W., Altamirano, D., Croft, S., Krimm, H. A., Sivakoff, G. R., Soria, R., Trott, C. M., Wayth, R. B., Gupta, V., Johnston-Hollitt, M., & Tingay, S. J., 2021, “*A broadband radio view of transient jet ejecta in the black hole candidate X-ray binary MAXI J1535-571*”, *Publications of the Astronomical Society of Australia*, **38**, e045.
33. Paduano, A., **Bahramian, A.**, Miller-Jones, J. C. A., Kawka, A., Strader, J., Chomiuk, L., Heinke, C. O., Maccarone, T. J., Britt, C. T., Plotkin, R. M., Shaw, A. W., Shishkovsky, L., Tremou, E., Tudor, V., & Sivakoff, G. R., 2021, “*The MAVERIC Survey: Simultaneous Chandra and VLA observations of the transitional millisecond pulsar candidate NGC 6652B*”, *Monthly Notices of the Royal Astronomical Society*, **506**, 4107.
34. Strader, J., Swihart, S. J., Urquhart, R., Chomiuk, L., Aydi, E., **Bahramian, A.**, Kawash, A., Sokolovsky, K. V., Tremou, E., & Udalski, A., 2021, “*Multiwavelength Evidence for a New Flare-mode Transitional Millisecond Pulsar*”, *The Astrophysical Journal*, **917**, 69.
35. Dage, K. C., Kundu, A., Thygesen, E., **Bahramian, A.**, Haggard, D., Irwin, J. A., Maccarone, T. J., Nair, S., Peacock, M. B., Strader, J., & Zepf, S. E., 2021, “*Three ultraluminous X-ray sources hosted by globular clusters in NGC 1316*”, *Monthly Notices of the Royal Astronomical Society*, **504**, 1545.
36. Zhao, Y., Heinke, C. O., Shishkovsky, L., Strader, J., Chomiuk, L., Maccarone, T. J., **Bahramian, A.**, Sivakoff, G. R., Miller-Jones, J. C. A., & Tremou, E., 2021, “*The MAVERIC Survey: Dynamical Origin of Radio Sources in Galactic Globular Clusters*”, *The Astrophysical Journal*, **914**, 77.
37. Anderson, G. E., Bell, M. E., Stevens, J., Aksulu, M. D., Miller-Jones, J. C. A., van der Horst, A. J., Wijers, R. A. M. J., Rowlinson, A., **Bahramian, A.**, Hancock, P. J., Macquart, J.-P., Ryder, S. D., & Plotkin, R. M., 2021, “*Rapid-response radio observations of short GRB 181123B with the Australia Telescope Compact Array*”, *Monthly Notices of the Royal Astronomical Society*, **503**, 4372.
38. Plotkin, R. M., **Bahramian, A.**, Miller-Jones, J. C. A., Reynolds, M. T., Atri, P., Maccarone, T. J., Shaw, A. W., & Gandhi, P., 2021, “*Towards a larger sample of radio jets from quiescent black hole X-ray binaries*”, *Monthly Notices of the Royal Astronomical Society*, **503**, 3784.
39. Bogdanov, S., **Bahramian, A.**, Heinke, C. O., Freire, P. C. C., Hessels, J. W. T., Ransom, S. M., & Stairs, I. H., 2021, “*A Deep Chandra X-Ray Observatory Study of the Millisecond Pulsar Population in the Globular Cluster Terzan 5*”, *The Astrophysical Journal*, **912**, 124.

40. Arnason, R. M., Papei, H., Barmby, P., **Bahramian, A.**, & Gorski, M. D., 2021, “Distances to Galactic X-ray binaries with Gaia DR2”, *Monthly Notices of the Royal Astronomical Society*, **502**, 5455.
41. Miller-Jones, J. C. A., **Bahramian, A.**, Orosz, J. A., Mandel, I., Gou, L., Maccarone, T. J., Neijssel, C. J., Zhao, X., Ziolkowski, J., Reid, M. J., Uttley, P., Zheng, X., Byun, D.-Y., Dodson, R., Grinberg, V., Jung, T., Kim, J.-S., Marcote, B., Markoff, S., Rioja, M. J., Rushton, A. P., Russell, D. M., Sivakoff, G. R., Tetarenko, A. J., Tudose, V., & Wilms, J., 2021, “*Cygnus X-1 contains a 21-solar mass black hole—Implications for massive star winds*”, *Science*, **371**, 1046.
42. **Bahramian, A.**, Heinke, C. O., Kennea, J. A., Maccarone, T. J., Evans, P. A., Wijnands, R., Degenaar, N., in’t Zand, J. J. M., Shaw, A. W., Rivera Sandoval, L. E., McClure, S., Tetarenko, A. J., Strader, J., Kuulkers, E., & Sivakoff, G. R., 2021, “*The Swift bulge survey: motivation, strategy, and first X-ray results*”, *Monthly Notices of the Royal Astronomical Society*, **501**, 2790.
43. Neijssel, C. J., Vinciguerra, S., Vigna-Gómez, A., Hirai, R., Miller-Jones, J. C. A., **Bahramian, A.**, Maccarone, T. J., & Mandel, I., 2021, “*Wind Mass-loss Rates of Stripped Stars Inferred from Cygnus X-1*”, *The Astrophysical Journal*, **908**, 118.
44. Zhao, X., Gou, L., Dong, Y., Zheng, X., Steiner, J. F., Miller-Jones, J. C. A., **Bahramian, A.**, Orosz, J. A., & Feng, Y., 2021, “*Re-estimating the Spin Parameter of the Black Hole in Cygnus X-1*”, *The Astrophysical Journal*, **908**, 117.
45. Zhao, Y., Heinke, C. O., Cohn, H. N., Lluguer, P. M., Guillot, S., Echiburú, C., Shishkovsky, L., Strader, J., Chomiuk, L., **Bahramian, A.**, Miller-Jones, J. C. A., Maccarone, T. J., Tremou, E., & Sivakoff, G. R., 2020, “*A deep Chandra survey for faint X-ray sources in the Galactic globular cluster M30, and searches for optical and radio counterparts*”, *Monthly Notices of the Royal Astronomical Society*, **499**, 3338.
46. Urquhart, R., **Bahramian, A.**, Strader, J., Chomiuk, L., Ransom, S. M., Wang, Y., Heinke, C., Tudor, V., Miller-Jones, J. C. A., Tetarenko, A. J., Maccarone, T. J., Sivakoff, G. R., Shishkovsky, L., Swihart, S. J., & Tremou, E., 2020, “*The MAVERIC Survey: New Compact Binaries Revealed by Deep Radio Continuum Observations of the Galactic Globular Cluster Terzan 5*”, *The Astrophysical Journal*, **904**, 147.
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