

## LIST OF PUBLICATIONS

### PUBLICATIONS IN REFEREED JOURNALS

- 1. “Spectral and timing characterization of the X-ray pulsar XTE J1858+034 with NuSTAR and Fermi/GBM and a candidate cyclotron line”**  
 Malacaria, Christian; Kretschmar, P.; Madsen, K. K.; Wilson-Hodge, C.A.; **Coley, Joel B.**; Jenke, P.; Lutovinov, Alexander A.; Pottschmidt, K.; Tsygankov, Sergey S.; Wilms, J.; arXiv:2101.07020

January 2021
- 2. “Superorbital Modulation in the High-Mass X-ray Binary 4U 1538-52, and Possible Modulation in IGR J16393-4643”**  
 Corbet, Robin H.D.; **Coley, Joel B.**; Krimm, Hans A.; Pottschmidt, Katja; Roche, Paul; ApJ 906, 13

January 2021
- 3. “Discovery of the Galactic High-Mass Gamma-ray Binary 4FGL J1405.1-6119”**  
 Corbet, Robin H.D.; Chomiuk, L; Coe, M. J.; **Coley, Joel B.**; Dubus, G.; Edwards, P.; Martin, P.; McBride, V.; Stevens, J; Strader, J., Townsend, L. J.; ApJ 884, 93

October 2019
- 4. “A Study of the 20 Day Superorbital Modulation in the High-Mass X-ray Binary IGR J16493-4348”**  
**Coley, Joel B.**; Corbet, Robin H.D.; Huxtable, Greg; Fürst, Felix; Krimm, Hans A.; Pearlman, A. B.; Pottschmidt, Katja; ApJ 879:34

July 2019
- 5. “The Orbital Parameters of the Eclipsing High-Mass X-ray Binary Pulsar IGR J16493-4348 From Pulsar Timing”**  
 Pearlman, A.; **Coley, Joel B.**; Corbet, Robin H.D.; Pottschmidt, K.; ApJ 873:86

March 2019
- 6. “Diverse Long-Term Variability of Five Candidate High-Mass X-ray Binaries from Swift Burst Alert Telescope Observations”**  
 Corbet, Robin H.D.; **Coley, Joel B.**; Krimm, Hans A.; ApJ 846:161

September  
2017
- 7. “A Luminous Gamma-ray Binary in the Large Magellanic Cloud”**  
 Corbet, Robin H.D.; Chomiuk, L; Coe, M. J.; **Coley, Joel B.**; Dubus, G.; Edwards, P.; Martin, P.; McBride, V.; Stevens, J; Strader, J.; ApJ 829:105

October 2016
- 8. “Probing the Masses and Radii of Donor Stars in Eclipsing X-ray Binaries with the Swift Burst Alert Telescope”**  
**Coley, Joel B.**; Corbet, Robin H.D.; Krimm, Hans A.; ApJ 808:140

August 2015
- 9. “Probing the Mysteries of the X-ray Binary 4U 1210-64 with ASM, PCA, MAXI, BAT and Suzaku”**  
**Coley, Joel B.**; Corbet, Robin H.D.; Mukai, Koji; Pottschmidt, Katja; ApJ 793:77

October 2014

## NON-REFEREED PUBLICATIONS/WHITE PAPERS

10. **“The Physics of Accretion Onto Highly Magnetized Neutron Stars”** June 2019  
 Wolff, Mike; Becker, Peter; **Coley, Joel B.**; Fürst, Felix; Guillot, Sebastien, Harding, Alice; Hemphill, Paul; Jaisawal, Gaurava, Kretschmar, Pete; Kühnel, Matthias; Malacaria, Christian; Pottschmidt, Katja; Rothschild, Richard; Staubert, Rüdiger; Tomsick; John; West, Brent; Wilms; Jörn; Wilson-Hodge, Colleen; Wood, Kent; Bulletin of the American Astronomical Society 51:386

## PUBLICATIONS IN PREPARATION/CURRENT WORK

- **“A Study of the 2020 Type II Giant Outburst of the Be X-ray Binary 1A 0535+262 with NuSTAR and NICER”** Est. Summer 2021  
**Coley, Joel B.**; Jaisawal, Gaurava K.; Wilms, Joern; Vasilopoulos, G.; Naik, S.; Gendreau, K. C.; Caballero, I.; Jana, A.; Malacaria, C.; Wolff, Michael T.; Kretschmar, P.; Fuerst, F.; ApJ, in prep
- **“A Study of the Extragalactic Gamma-ray Binary LMC P3 using XMM-Newton, NuSTAR and Swift”** Est. Summer 2021  
**Coley, Joel B.**; Baker, William; Boyd, Patricia T.; Corbet, Robin H.D.; Dubus, Guillaume; Hinkle, Jason; Vulic, Neven; ApJ, in prep
- **“Multiwavelength Study of 4U 1210-64”** Est. Summer 2021  
 Monageng, Itumeleng M.; **Coley, Joel B.**; McBride, Vanessa A.; Corbet, Robin H.D.; Pottschmidt, Katja; MNRAS, in prep
- **“Studying the Be X-ray binary 4U 1901+03 in Outburst with NICER and NuSTAR”** Est. Winter 2021  
**Coley, Joel B.**; Fuerst, Felix; Hemphill, Paul; Kretschmar, Peter; Pottschmidt, Katja; Jaisawal, G. K.; Malacaria, Christian; Vasilopoulos, G.; Thalhammer, P.; Chakrabarty, D.; Wilms, J.; Wolff, Mike; ApJ, in prep
- **“A Study of the Be X-ray binary 1A 0535+262 during its 2020 Giant Outburst with NICER and NuSTAR”** Est. Winter 2021  
**Coley, Joel B.**; Jaisawal, G.; ApJ, in prep
- **“On the new dramatic spin-up episode in the High Mass X-ray Binary GX 301-2 followed by NICER, Fermi/GBM and Swift”**  
 Malacaria, Christian; Wilson-Hodge Colleen; Jenke, Peter; Corbet, **Coley, Joel B.**; Fuerst, Felix; Hemphill, Paul; Pottschmidt, Katja; ApJ, in prep
- **“A Multi-Wavelength Study of the Gamma Ray Binary 1FGL J1018.6-5856”**  
**Coley, Joel B.**; Corbet, Robin H.D.; Cheung, Chi C.; Coe, M. J.; Dubus, G.; Edwards, P.; McBride, V.; McSwain, M. V.; Pearlman, A. B.; Stevens, J.; ApJ, in prep
- **“Probing the Circumstellar Environment of the Supergiant Fast X-ray Transient IGR J17544-2619 using K2 and Swift”**  
**Coley, Joel B.**; Boyd, Patricia T.; Corbet, Robin H.D.; Krimm, Hans A.; Pottschmidt, Katja; Torpin, Trevor; ApJ, in prep

- **“K2 Observations of the Prototypical Transitional Millisecond Pulsar PSR J1023+0038”**  
Coley, Joel B.; Boyd, Patricia T.; Corbet, Robin H.D.; Cheung, Chi C.; Chomiuk, L; Dubus, G.; Strader, J; ApJ, in prep
- **“Probing the Radiative Losses in the High-mass Gamma-ray Binary PSR B1259-63 with *TESS*, *Swift* and *Fermi*”**  
Coley, Joel B.; Boyd, Patricia T.; Corbet, Robin H.D.; Cheung, Chi C.; Chomiuk, L; Dubus, G.; Strader, J; ApJ, in prep
- **“Probing the Superorbital Modulation in the Supergiant X-ray binary 4U 1909+07 through its Compton-thick Absorbing Medium”**  
Coley, Joel B.; Boyd, Patricia T.; Corbet, Robin H.D.; Cheung, Chi C.; Chomiuk, L; Dubus, G.; Strader, J; ApJ, in prep

## INVITED TALKS

- **“A Study of Superorbital Modulation in Wind-fed Supergiant X-ray binaries”** February 2020  
The Catholic University of America
- **“Transient and Variable Gamma-ray Surprises in the Galaxy”** January 2019  
AAS 2019 Conference, Seattle WA, January 2019
- **“A Multi-Wavelength Study of the Gamma-ray binaries LMC P3 and 1FGL J1018.6-5856”** October 2017  
Dr. Remeis-Sternwarte and Erlangen Center for Astroparticle Physics
- **“A Multi-Wavelength Study of the Gamma-ray binaries LMC P3 and 1FGL J1018.6-5856”** April 2017  
University of Maryland College Park
- **“A Multi-Wavelength Study of the Gamma-ray binaries LMC P3 and 1FGL J1018.6-5856”** April 2017  
Space Telescope Science Institute
- **“A Multi-Wavelength Study of the Gamma-ray binaries LMC P3 and 1FGL J1018.6-5856”** April 2017  
The George Washington University
- **“A Multi-Wavelength Study of the Gamma-ray binaries LMC P3 and 1FGL J1018.6-5856”** January 2017  
The Catholic University of America
- **“A Multi-Wavelength Study of the Gamma-ray binaries LMC P3 and 1FGL J1018.6-5856”** December 2016  
Grenoble, France

## CONTRIBUTED TALKS/POSTER PRESENTATIONS

- **“A Study of the Extragalactic Gamma-ray Binary LMC P3 using XMM-Newton, NuSTAR and Swift (poster)”** January 2020  
AAS 2020 Conference, Honolulu HI, January 2020
- **“A Study of the 20 Day Superorbital Modulation in the High-Mass X-ray Binary IGR J16493-4348” (poster)”** November 2019

- National Society of Black Physicist, Providence RI, November 2019
- **“A Study of the 20 Day Superorbital Modulation in the High-Mass X-ray Binary IGR J16493-4348”** January 2019  
AAS 2019 Conference, Seattle WA, January 2019
  - **“A Study of the 20 Day Superorbital Modulation in the High-Mass X-ray Binary IGR J16493-4348”** July 2018  
COSPAR 2018, Pasadena, California
  - **“A Preliminary Look at LMC P3: An Extreme Particle Accelerator”** October 2017  
7th International Fermi Symposium, Garmish-Partenkirchen, Germany
  - **“A Multi-Wavelength Study of the Gamma-ray binaries LMC P3 and 1FGL J1018.6-5856”** June 2017  
The X-ray Universe 2017 Symposium, Rome, Italy
  - **“A Multi-Wavelength Study of the Gamma-ray binary 1FGL J1018.6-5856 (poster)”** April 2016  
HEAD 2016 Conference, Naples, FL
  - **“Probing the Structure and Morphology of X-ray and Gamma-ray Binaries Using a Multi-Wavelength, Multi-Mission Approach”** January 2016  
AAS 2016 Conference, Kissimmee FL, January 2016
  - **“Probing the Masses and Radii of Donor Stars in Eclipsing X-ray Binaries with the Swift Burst Alert Telescope”** October 2015  
Swift Timing Symposium, Clemson, SC
  - **“A Multi-Wavelength Study of the Gamma-ray binary 1FGL J1018.6-5856 (poster)”** August 2014  
HEAD 2014 Conference, Chicago, IL
  - **“Constraining System Parameters of Eclipsing X-ray Binaries with the Swift Burst Alert Telescope (poster)”** August 2014  
HEAD 2014 Conference, Chicago, IL
  - **“Probing the Mysteries of the X-ray Binary 4U 1210-64 with ASM, MAXI, BAT and Suzaku (poster)”** January 2013  
AAS 2013 Conference, Long Beach CA, January 2013
  - **“Suzaku and MAXI Observations of the X-ray Binary 4U 1210-64 (poster)”** September 2011  
HEAD Meeting, Newport RI, September 2011

## ASTRONOMER’S TELEGRAMS

- **“NuSTAR Observation of the ongoing outburst of the accreting X-ray pulsar 2S 1553-542”** January 2021  
Malacaria, C.; Pottschmidt, K.; Fuerst, F.; Kretschmar, P.; Coley, J. B.; Ducci, L.; Wilms, J.; Wolff, M. T.; Staubert, R.; Kreykenbohm, I.; ATel 14348
- **“Super-critical accretion onto the Be/X-ray binary pulsar 1A 0535+262 during its 2020 giant X-ray outburst”** November 2020  
Jaisawal, G. K.; Coley, J. B.; Wilms, J.; Vasilopoulos, G.; Naik, S.; Gendreau, K. C.; Caballero, I.; Jana, A.; Malacaria, C.; Wolff, M.; Kretschmar, P.; Pottschmidt, K.; Fuerst, F.; ATel 14227

- **“NICER and NuSTAR observation of the Be/X-ray binary pulsar 1A 0535+262 during the 2020 November giant outburst”** November 2020  
 Jaisawal, G. K.; Naik, S.; Gendreau, K. C.; Arzoumanian, Z.; Jana, A.; **Coley, J. B.**; Malacaria, C.; Vasilopoulos, G.; Fuerst, F.; Altamirano, D.; Pottschmidt, K.; Wilms, J.; Wolff, M.; Buisson, D.J.K.; ATel 14179
- **“Possible discovery of a cyclotron line in 4U 1901+03 with NuSTAR”** April 2019  
**Coley, Joel B.**; Fuerst, Felix; Hemphill, Paul; Kretschmar, Peter; Pottschmidt, Katja; Jaisawal, G. K.; Malacaria, Christian; Vasilopoulos, G.; Wilms, J.; Wolff, Mike; ATel 12684
- **“Chandra/HRC localization and pulse period measurement of 4U 1901+03”** March 2019  
 Hemphill, Paul; **Coley, Joel B.**; Fuerst, Felix; Kretschmar, Peter; Kuehnel, Matthias.; Malacaria, Christian; Pottschmidt, Katja; ATel 12556
- **“NICER observation of the transient high mass X-ray binary pulsar 4U 1901+03”** February 2019  
 Jaisawal, G. K.; Pottschmidt, K., Wolff, M. T.; Fuerst, F.; Malacaria, C. **Coley, J. B.**; Gendreau, K. C.; Arzoumanian, Z.; Kretschmar, P.; Wilms, J.; ATel 12515
- **“Apparent Superorbital Modulation in 4U 1538-52 at Four Times the Orbital Period”** August 2018  
 Corbet, Robin H.D.; **Coley, Joel B.**; Krimm, Hans A.; Pottschmidt, Katja; ATel 11918
- **“Swift BAT Observations of the Be/X-ray Binary 4U 0728-25 (X 0726-260)”** December 2016  
 Corbet, Robin H.D.; **Coley, Joel B.**; Krimm, Hans A.; ATel 9823
- **“Swift BAT Observations of IGR J01217-7257”** November 2015  
 Corbet, Robin H.D.; **Coley, Joel B.**; Krimm, Hans A.; ATel 8312