

Jay Strader

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East Lansing, MI 48824-2320

Education

Ph.D. Astronomy & Astrophysics. June 2007, University of California–Santa Cruz
Advisor: Jean Brodie
B.S. Physics & Mathematics. December 2001, Duke University
Distinction in Physics

Appointments

| | |
|---|-----------|
| Professor, Michigan State University | 2022– |
| Associate Professor, Michigan State University | 2017–2022 |
| Assistant Professor, Michigan State University | 2012–2017 |
| Menzel Fellow, Harvard College Observatory | 2010–2012 |
| Hubble Fellow, Harvard College Observatory | 2007–2010 |
| Research Assistant, University of California–Santa Cruz | 2002–2007 |

Fellowships and Awards

National/International

Packard Fellowship, 2015–2020
Research Corporation Scialog Fellow, 2018
Menzel Fellowship, 2010–2012
Hubble Fellowship, 2007–2010
ARCS Scholarship, 2006
NSF Graduate Research Fellowship, 2003–2006

Institutional

NatSci Early Career Research Award (MSU), 2021
Whitford Prize (UC-Santa Cruz), 2004
Provost’s Fellowship (UC-Santa Cruz), 2002

Research Grants (Amounts to Strader at MSU listed)

2022: National Science Foundation (\$280K)
2022: Fermi Gamma-Ray Space Telescope (\$75K)
2022: Chandra X-ray Observatory (\$71K)
2021: NASA Astrophysics Data Analysis Program (\$377K)
2020: Chandra X-ray Observatory (\$61K)
2020: Hubble Space Telescope (\$15K)
2019: Hubble Space Telescope (\$23K)

2018: National Science Foundation (\$48K)
2018: XMM (\$61K)
2018: Chandra X-ray Observatory (\$16K)
2018: Fermi Gamma-Ray Space Telescope (\$57K)
2017: National Science Foundation (\$338K)
2017: Hubble Space Telescope (\$39K)
2016: Swift (\$24K)
2016: Hubble Space Telescope (\$37K)
2016: Hubble Space Telescope (\$79K)
2016: Chandra X-ray Observatory (\$91K)
2016: Chandra X-ray Observatory (\$42K)
2015: Packard Fellowship (\$875K)
2015: National Science Foundation (\$213K)
2015: Fermi Gamma-Ray Space Telescope (\$120K)
2015: Chandra X-ray Observatory (\$34K)
2014: Hubble Space Telescope (\$7K)
2014: Chandra X-ray Observatory (\$46K)
2013: Hubble Space Telescope (\$36K)
2013: National Science Foundation (\$268K)
2013: Hubble Space Telescope (\$37K)
2012: Hubble Space Telescope (\$92K)

Teaching

AST 410 (Senior Thesis). 31 students. MSU, Spring 2023
AST 410 (Senior Thesis). 22 students. MSU, Fall 2022
ISP 205 (Visions of the Universe). 200 students. MSU, Fall 2022
AST 840 (Stars). 8 students. MSU, Spring 2022
AST 410 (Senior Thesis). 22 students. MSU, Spring 2022
AST 410 (Senior Thesis). 21 students. MSU, Fall 2021
AST 410 (Senior Thesis). 13 students. MSU, Spring 2020
AST 410 (Senior Thesis). 15 students. MSU, Fall 2019
ISP 205 (Visions of the Universe). 154 students. MSU, Fall 2019
AST 912 (Observational Techniques). 7 students. MSU, Spring 2019
AST 825 (Galactic Astronomy). 6 students. MSU, Fall 2018
ISP 205L (Visions of the Universe Lab). 450 students. MSU, Spring 2018 (5 sections)
ISP 205L (Visions of the Universe Lab). 450 students. MSU, Fall 2017 (5 sections)
AST 825 (Galactic Astronomy). 8 students. MSU, Fall 2016
ISP 205 (Visions of the Universe). 335 students. MSU, Fall 2015 (2 sections)
AST 825 (Galactic Astronomy). 5 students. MSU, Fall 2014
ISP 205 (Visions of the Universe). 500 students. MSU, Fall 2013 (2 sections)
ISP 205 (Visions of the Universe). 220 students. MSU, Spring 2013

Professional Activities and Service

Member, Rubin Observatory Survey Cadence Optimization Committee. 2020–

Chair, Star Clusters Science Subgroup for Rubin Observatory. 2013–2020
Member, Stars, Milky Way, and Local Volume Science Working Group for Rubin Observatory. 2008–

Scientific Organizer, “Intermediate-Mass Black Holes”, Belize. 2023
Scientific Organizer, “Intermediate-Mass Black Holes: New Science from Stellar Evolution to Cosmology”, San Juan, Puerto Rico. 2022
Scientific Organizer, “Search for Dwarf Companions of the Milky Way and Beyond”, Tucson, AZ. 2017
Scientific Organizer, “Sexten Center for Astrophysics Conference on Globular Clusters”, Italy. 2017
Scientific Organizer, “SOAR Science 2020”, UNC/Rio de Janeiro, Brazil. 2017
Scientific Organizer, “Compact Objects in Michigan”, East Lansing, MI. 2017
Scientific Organizer, “Globular Clusters and Galaxy Halos”, Netherlands. 2016
Scientific Organizer, “Compact Objects in Michigan”, East Lansing, MI. 2014
Organizer, OIR Seminar, Harvard/CfA. 2010–2012

Member Representative, AURA. 2019–
Member, SOAR Classification Spectrograph Working Group. 2023
Member, Search Committee for NOIRLab Mid-Scale Observatory Telescope Operators. 2022
Member, NASA Astrophysics Data Analysis Program Review Panel. 2021
Member, National Science Foundation Review Panel. 2015, 2016, 2019, 2021, 2023
External Reviewer, Cycle 28 *Hubble Space Telescope* Proposal Review. 2020
Member, Cycle 27 *Hubble Space Telescope* Review Panel. 2019
External Reviewer, Cycle 25 *Hubble Space Telescope* Proposal Review. 2018
External Reviewer, PhD thesis, Itumeleng Monageng (Univ. of Cape Town). 2018
External Reviewer, Cycle 24 *Hubble Space Telescope* Proposal Review. 2016
Member, Cycle 23 *Hubble Space Telescope* Review Panel. 2015
Judge, AAS Doxsey Travel Prize. 2013, 2014
Member, Cycle 19 *Hubble Space Telescope* Review Panel. 2011
Referee, *Nature*, *The Astrophysical Journal*, *The Astrophysical Journal Letters*, *The Astronomical Journal*, *Astronomy & Astrophysics*, *Monthly Notices of the Royal Astronomical Society*, *Nature Astronomy*. 2004–
Proposal Review, Gemini, CFHT, Chilean FONDECYT, Chinese Telescope Access Program, Swiss NSF, Netherlands Organisation for Scientific Research. 2004–

Associate Chair for Astronomy, MSU. 2018–2020, 2022–
Astronomy Graduate Program Director, MSU. 2018–2020, 2021–

Chair, Search Committee for AST Instructor Position, MSU. 2022
Member, Graduate Program Committee, MSU. 2018–2020, 2021–
Member, Undergraduate Program Committee, MSU. 2018–2020, 2021–
Member, Junior Promotion & Tenure Review Committee 2021–2022, 2022–2023
MSU SOAR Telescope Time Scheduler 2018–

Member, Search Committee for AST Faculty Position, MSU. 2019–2020
Chair, Search Committee for AST Instructor Position, MSU. 2018
Member, Search Committee for AST/CMSE Faculty Position, MSU. 2017–2018
Organizer, AST Seminar, MSU. 2012–2015, 2017–2018
Member, PHY/AST Colloquium Committee, MSU. 2017–2018
Member, University Committee on Faculty Tenure, MSU. 2015–2017
Member, Search Committee for NSCL Faculty Position, MSU. 2015–2016
Member, Graduate Recruiting & Program Committee, MSU. 2012–2015
Creator and Organizer, AST journal club, MSU. 2012–2018
Member, MSU PhD Thesis Committees (non-advisees: Bella Molina, Katie Bowen, Adam Kawash, Mike Pajkos, Carl Fields, Dana Koeppel, Kristen Dage, Devyn Rysowyk, Ryan Connolly, Greg Meece, Tom Connor). 2013–

Students Advised

Graduate Students:

2023– Rebecca Kyer
2018–2023 Teresa Panurach (PhD 2023; NSF Graduate Research Fellow 2020–2023)
2015–2020 Samuel Swihart (PhD 2020; NRC fellow at Naval Research Lab)
2013–2020 Laura Shishkovsky (PhD 2022)
2013–2015 Tom Hettinger (PhD 2015; data scientist at Attentive Mobile)

2010–2012 Sooyoung Kim (Yonsei)
2007–2010 Julie Nantais (Harvard)
2005–2007 Kieran Forde (Galway)

Undergraduate/High School Students:

2023– Kyndrel Allen (MSU)
2023 Emma Dugan (MSU)
2022 Alexa Beyer (REU student)
2020–2021 Lauren McDermott (MSU—grad school at Washington St.)
2019–2020 Jessie Miller (MSU—grad school at Caltech)
2019–2020 Meg Davis (MSU—grad school at U. Conn)
2019–2020 Shion Andrew (REU student—Churchill Scholar; grad school at MIT)
2019 Jennifer Rodriguez (MSU—grad school at Ohio St.)
2019 Ashley Granquist (Hall High School; West Hartford, CT—now MIT undergrad)
2018 Luis Bariuan (Mission Vista High School; Oceanside, CA—now MIT undergrad)
2018 Joey Seitz (MSU)
2018 Alexa Muethel (MSU—grad school at Northwestern)
2018 Matthew Floyd (REU student—grad school at U. of Toledo)
2017–2018 Huei Sears (MSU—grad school at Northwestern)
2017 Jacob Davison (REU student—grad school at MSU)
2016–2017 Seth Bruzewski (MSU—grad school at U. of New Mexico)
2015–2017 Dustin Scriven (MSU; undergrad thesis—grad school at Texas A&M)
2016 John Owens (MSU; undergrad thesis)
2015–2016 Andrew Bundas (MSU; undergrad thesis)

2015 Vladislav Jdanov (MSU)
2014–2015 David Saunders (MSU)
2013–2014 Alex McComb (MSU)
2013–2014 Erin May (MSU; undergrad thesis—grad school at U. of Mich.)
2013–2014 Brandon Russell (MSU)
2013 Jacob Gruhn (MSU)
2004–2005 Lee Spitler (UCSC—grad school at Swinburne U.)

Postdocs Advised

2021– Esha Kundu
2018– Ryan Urquhart
2018–2022 Kirill Sokolovsky (now research associate, U Illinois)
2018–2022 Abigail Stevens (NSF AAFP Fellow at MSU, now Manager of Public Programming at MSU Museum)
2015–2018 Kwan-Lok Li (now assistant prof., National Cheng Kung U, Taiwan)
2016–2018 Chris Britt (now Education & Outreach Scientist, STScI)
2016–2018 Arash Bahramian (now lecturer, Curtin U.)
2015–2017 Evangelia Tremou (now assistant scientist at NRAO, Socorro, NM)
2013–2016 Mark Peacock (now data scientist for Blue Cross)
2013–2015 Ricardo Salinas (now tenured scientist at Gemini, La Serena, Chile)

Invited Talks (since 2010)

National Radio Astronomy Observatory, Socorro (Apr 2023)
Oakland University (Jan 2023)
Michigan State University (Nov 2021)
Caltech (May 2021)
University of Toronto (Mar 2020—cancelled due to COVID-19)
Ohio State University (Mar 2020)
University of Washington (May 2019)
Northwestern University (May 2019)
University of Chicago (Oct 2018)
Space Telescope Science Institute (Mar 2018)
Texas A&M University (Apr 2017)
Harvard-Smithsonian Center for Astrophysics (Mar 2017)
Case Western Reserve University (Mar 2017)
Ohio State University (Mar 2017)
University of Utah (Feb 2017)
Michigan State University (Nov 2016)
University of California–Los Angeles (May 2016)
Texas Tech University (Mar 2016)
Curtin University, Perth (Jul 2015)
Northwestern University (May 2015)
Columbia University (Oct 2014)
Wayne State University (Sep 2014)

Indiana University (May 2014)
University of Notre Dame (Feb 2014)
University of Pittsburgh (Oct 2013)
Liverpool John Moores University (Jul 2013)
University of Western Ontario (Dec 2012)
University of Michigan (Oct 2012)
Michigan State University (Feb 2012)
Harvard-Smithsonian Center for Astrophysics (Nov 2011)
Brown University (Nov 2011)
Space Telescope Science Institute (Mar 2010)
Northwestern University (Mar 2010)
Harvard-Smithsonian Center for Astrophysics (Feb 2010)

Extreme Black Holes (Aspen; Mar 2023)
The Physics of Extreme Gravity Stars (Stockholm, Sweden; Jun 2017) – two talks
Globular Cluster Systems and Their Host Galaxies (Sextens, Italy; Jun 2017)
SOAR Science 2020 (Chapel Hill, NC; Mar 2017)
Packard Fellows Meeting 2016 (Monterey, CA; Sep 2016)
Star Clusters as Cosmic Laboratories for Astrophysics, Dynamics, and Fundamental Physics (Bologna, Italy; Apr 2016)
Astrophysics at Mayacamas Ranch (Calistoga, CA; Apr 2016)
Globular Clusters and Galaxy Halos (Leiden, Netherlands; Feb 2016)
Satellites and Streams in Santiago (Santiago, Chile; Apr 2015)
Ultra-Compact Binaries as Laboratories for Fundamental Physics (Aspen; June 2014)
Dwarf Galaxies as Cosmological Probes (Aspen; June 2014)
The Dance of Stars (Bad Honnef, Germany; Jun 2014)
ICNT 2013 (East Lansing, MI; Aug 2013)
Small Stellar Systems in Tuscany (Prato, Italy; Jun 2013)
SnowPAC 2013 (Snowmass, UT; Mar 2013)
MODEST-12 (Kobe, Japan; Aug 2012) – two talks
The Future of Astronomy (Evanston, IL; Sep 2011)
Stellar and Intermediate Mass Black Holes (Aspen; Jun 2011)
Hubble Fellows Symposium (Baltimore, MD; Mar 2010)

Public Outreach

Talk to MSU Astronomy Club, Jan 2023, East Lansing, MI
Public talk at Astronomy on Tap, Apr 2022, Lansing, MI
Organized tailgating outreach at MSU, Sep 2019, East Lansing, MI
Public talk, Apr 2018, Abrams Planetarium, East Lansing, MI
Kavli Foundation Roundtable, Dec 2016
Talk to MSU Astronomy Club, Feb 2015, East Lansing, MI
Week of guest tweeting from @astrotweeps account (> 4k followers), Feb 2015
Public talk, Oct 2014, Abrams Planetarium, East Lansing, MI
Public talk, May 2014, Kalamazoo Astronomical Society, Kalamazoo, MI

Volunteer Docent at MSU Observatory, Apr 2014, MSU Science Festival
Public talk, Oct 2013, University Lowbrow Astronomers, Ann Arbor, MI
Public talk, Feb 2013, Abrams Planetarium, East Lansing, MI

Refereed Publications

[Click for NASA/ADS link to refereed papers](#)

Bibliometric summary: 328 refereed papers total (13769 citations); 76 first or second-author papers (4236 citations). h -index = 63.

2023

328. Multi-wavelength observations of a new redback millisecond pulsar 4FGL J1910.7–5320.

Au, K., *Strader, J.*, Swihart, S., Lin, L., Kong, A., Takata, J., Hui, C., Panurach, T., Molina, I., Aydi, E., Sokolovsky, K., Li, K. 2023, *The Astrophysical Journal*, 943, 103

327. Tracking the enigmatic globular cluster ultracompact X-ray binary X1850–087: Extreme radio variability in the hard state.

Panurach, T., Urquhart, R., *Strader, J.*, Chomiuk, L., Bahramian, A., Heinke, C., Maccarone, T., Miller-Jones, J., Sivakoff, G. 2023, *The Astrophysical Journal*, 946, 88

326. New velocity measurements of NGC 5128 globular clusters out to 130 kpc: Outer halo kinematics, substructure and dynamics.

Hughes, A., Sand, D., Seth, A., *Strader, J.*, Lidman, C., Voggel, K., Dumont, A., Crnojevic, D., Mateo, M., Caldwell, N., Forbes, D., Pearson, S., Guhathakurta, P., Toloba, E. 2023, *The Astrophysical Journal*, 947, 34

325. MAXI J1848–015: The first detection of relativistically moving outflows from a globular cluster X-ray binary.

Bahramian, A., Tremou, E., Tetarenko, A., Miller-Jones, J., Fender, R., Corbel, S., Williams, D., *Strader, J.*, Carotenuto, F., Salinas, R., Kennea, J., Motta, S., Woudt, P., Matthews, J., Russell, T. 2023, *The Astrophysical Journal*, in press

324. Low-density star cluster formation: discovery of a young faint fuzzy on the outskirts of the low-mass spiral galaxy NGC 247.

Romanowsky, A., Larsen, S., Villaume, A., Carlin, J., Janz, J., Sand, D., *Strader, J.*, Brodie, J., Chakrabarti, S., Cheng, C., Crnojevic, D., Forbes, D., Garling, C., Hargis, J., Karunakaran, A., Martin-Navarro, I., Olsen, K., Rider, N., Salimkumar, B., Santhanakrishnan, V., Spekkens, K., Tang, Y., van Dokkum, P., Willman, B. 2023, *Monthly Notices of the Royal Astronomical Society*, 518, 3164

323. An observationally-derived kick distribution for neutron stars in binary systems.

O’Doherty, T., Bahramian, A., Miller-Jones, J., Goodwin, A., Mandel, I., Willcox, R., Atri, P., *Strader, J.* 2023, *Monthly Notices of the Royal Astronomical Society*, 521, 2504

322. The ASAS-SN bright supernova catalog – V. 2018-2020.

Neumann, K., Holoien, T., Kochanek, C., Stanek, K., Vallely, P., Shappee, B., Prieto, J., Pessi, T., Jayasinghe, T., Brimacombe, J., Bersier, D., Aydi, E., Basinger, C., Beacom, J., Bose, S., Brown, J., Chen, P., Clocchiatti, A., Desai, D., Dong, S., Falco, E., Holmbo, S., Morrell, N., Shields, J., Sokolovsky, K., *Strader, J.*, Stritzinger, M., Swihart, S., Thompson, T., Way, Z., Aslan, L., Bishop, D., Bock, G., Bradshaw, J., Cacella, P., Castro-Morales, N., Conseil, E., Cornect, R., Cruz, I., Farfan, R., Fernandez, J., Gabuya, A., Gonzalez-Carballo, J., Kendurkar, M., Kiyota, S., Koff, R., Krannich, G., Marples, P., Masi, G., Monard, L., Munoz, J., Nicholls, B., Post, R., Pujic, Z., Stone, G., Tomasella, L., Trappett, D., Wiethoff, W. 2023, Monthly Notices of the Royal Astronomical Society, 520, 4356

2022

321. A new flaring black widow candidate and demographics of black widow millisecond pulsars in the Galactic field.

Swihart, S., *Strader, J.*, Chomiuk, L., Aydi, E., Sokolovsky, K., Ray, P., Kerr, M. 2022, The Astrophysical Journal, 941, 199

320. 4FGL J1120.0–2204: A unique gamma-ray bright neutron star binary with an extremely low mass proto-white dwarf.

Swihart, S., *Strader, J.*, Aydi, E., Chomiuk, L., Dage, K., Kawash, A., Sokolovsky, K., Ferrara, E. 2022, The Astrophysical Journal, 926, 201

319. 1RXH J082623.6–505741: a new long-period cataclysmic variable with an evolved donor and a low mass transfer rate.

Sokolovsky, K., *Strader, J.*, Swihart, S., Aydi, E., Bahramian, A., Chomiuk, L., Heinke, C., Hughes, A., Li, K., Lopes de Oliveira, R., Miller-Jones, J., Mukai, K., Sand, D., Shishkovsky, L., Tremou, E., Voggel, K. 2022, The Astrophysical Journal, 934, 142

318. X-ray and radio observations of central black holes in nearby low-mass early-type galaxies: Preliminary evidence for low Eddington fractions.

Urquhart, R., McDermott, L., **Strader, J.**, Seth, A., Chomiuk, L., Neumayer, N., Nguyen, D., Tremou, E. 2022, The Astrophysical Journal, 940, 111

317. The MAVERIC survey: A catalogue of radio sources in southern globular clusters from the Australia Telescope Compact Array.

Tudor, V., Miller-Jones, J., *Strader, J.*, Bahramian, A., Shishkovsky, L., Plotkin, R., Chomiuk, L., Heinke, C., Maccarone, T., Sivakoff, G., Tremou, E., Anderson, G., Russell, T., Tzioumis, A. 2022, Monthly Notices of the Royal Astronomical Society, 513, 3818

316. A population of luminous globular clusters and stripped nuclei with elevated mass to light ratios around NGC 5128.

Dumont, A., Seth, A., *Strader, J.*, Sand, D., Hughes, A., Voggel, K., Caldwell, N., Crnojevic, D., Mateo, M., Bailey, J., Forbes, D. 2022, *The Astrophysical Journal*, 929, 147

315. Detection of a likely 100,000 M_{\odot} black hole in M31's most massive globular cluster.

Pechetti, R., Seth, A., Kamann, S., Caldwell, N., *Strader, J.*, den Brok, M., Lutzgendorf, N., Neumayer, N., Voggel, K. 2022, *The Astrophysical Journal*, 924, 48

314. The Galactic nova rate: Estimates from the ASAS-SN and *Gaia* surveys.

Kawash, A., Chomiuk, L., *Strader, J.*, Sokolovsky, K., Aydi, E., Kochanek, C., Stanek, K., Kostrzewa-Rutkowska, Z., Hodgkin, S., Mukai, K., Shappee, B., Jayasinghe, T., Rizzo Smith, M., Holoien, T., Prieto, J., Thompson, T. 2022, *The Astrophysical Journal*, 937, 64

313. The flickering radio jet from the quiescent black hole X-ray binary A0620–00.

DePolo, D., Plotkin, R., Miller-Jones, J., *Strader, J.*, Maccarone, T., O'Doherty, T., Chomiuk, L., Gallo, E. 2022, *Monthly Notices of the Royal Astronomical Society*, 516, 4640

312. Hubble Space Telescope imaging reveals that SN 2015bh is much fainter than its progenitor.

Jencson, J., Sand, D., Andrews, J., Smith, N., **Strader, J.**, Aghakhanloo, M., Pearson, J., Valenti, S. 2022, *The Astrophysical Journal Letters*, 935, 33

311. The MAVERIC Survey: The first radio and X-ray limits on the detached black holes in NGC 3201.

Paduano, A., Bahramian, A., Miller-Jones, J., Kawka, A., Gottgens, F., *Strader, J.*, Chomiuk, L., Kamann, S., Dreizler, S., Heinke, C., Husser, T., Maccarone, T., Tremou, E., Zhou, Y. 2022, *Monthly Notices of the Royal Astronomical Society*, 510, 3658

310. An exceptional dimming event for a massive, cool supergiant in M51.

Jencson, J., Sand, D., Andrews, J., Smith, N., Pearson, J., *Strader, J.*, Valenti, S., Beasor, E., Rothberg, B. 2022, *The Astrophysical Journal*, 930, 81

309. Gamma-ray eclipses and orbital modulation transitions in the candidate redback 4FGL J1702.7-5655.

Corbet, R., Chomiuk, L., Coley, J., Dubus, G., Edwards, P., Islam, N., McBride, V., Stevens, J., *Strader, J.*, Swihart, S., Townsend, L. 2022, *The Astrophysical Journal*, 935, 2

308. OGLE-BLG504.12.201843: A possible extreme dwarf nova.

Landri, C., Pejcha, O., Pawlak, M., Udalski, A., Prieto, J., Barrientos, M., *Strader, J.*, Dong, D. 2022, Monthly Notices of the Royal Astronomical Society, 517, 2746

307. UGPS J194310.32+183851.8: An unusual optical and X-ray faint cataclysmic variable?

Morris, C., Maccarone, T., Lucas, P., *Strader, J.*, Britt, C., Miller, N., Swihart, S., Cooper, W., Guo, Z., Drew, J. 2022, Monthly Notices of the Royal Astronomical Society, 514, 6002

306. The 2019 outburst of the 2005 classical nova V1047 Cen: A record breaking dwarf nova outburst or a new phenomenon?

Aydi, E., Sokolovsky, K., Bright, J., Tremou, E., Nyamai, M., Evans, A., *Strader, J.*, Chomiuk, L., Myers, G., Hamsch, F., Page, K., Buckley, D., Woodward, C., Walter, F., Mroz, P., Vallely, P., Geballe, T., Banerjee, D., Gehrz, R., Fender, R., Gromadzki, M., Kawash, A., Knigge, C., Mukai, K., Munari, U., Orio, M., Ribeiro, V., Sokoloski, J., Starrfield, S., Udalski, A., Woudt, P. 2022, The Astrophysical Journal, 939, 6

305. Astrometry of variable compact radio sources: A search for Galactic black hole X-ray binaries.

Atri, P., Miller-Jones, J., Bahramian, A., Plotkin, R., Maccarone, T., Marcote, B., Heinke, C., Sivakoff, G., Ginsburg, A., *Strader, J.*, Chomiuk, L. 2022, Monthly Notices of the Royal Astronomical Society, 517, 5810

304. The first nova eruption in a novalike variable: YZ Ret as seen in X-rays and gamma-rays.

Sokolovsky, K., Li, K., de Oliveira, R., Ness, J., Mukai, K., Chomiuk, L., Aydi, E., Steinberg, E., Vurm, I., Metzger, B., Babul, A., Kawash, A., Linford, J., Nelson, T., Page, K., Rupen, M., Sokoloski, J., *Strader, J.*, Kilkenny, D. 2022, Monthly Notices of the Royal Astronomical Society, 514, 2239

303. Constraining the progenitor system of the Type Ia supernova 2021aefx.

Hosseinzadeh, G., Sand, D., Lundqvist, P., Andrews, J., Bostroem, K., Dong, Y., Janzen, D., Jencson, J., Lundquist, M., Meza, N., Pearson, J., Valenti, S., Wyatt, S., Burke, J., Howell, D.A., McCully, C., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Terreran, G., Kwok, L., Jha, S., *Strader, J.*, Kundu, E., Ryder, S., Haislip, J., Kouprianov, V., Reichart, D. 2022, The Astrophysical Journal, 933, 45

302. Young, blue, and isolated stellar systems in the Virgo Cluster I. 2-D optical spectroscopy.

Bellazzini, M., Magrini, L., Jones, M., Sand, D., Beccari, G., Cresci, G., Spekkens, K., Karunakaran, A., Adams, E., Zaritsky, D., Battaglia, G., Seth, A., Cannon, J., Fuson, J., Inoue, J., Mutlu-Pakdil, B., Guhathakurta, P., Munoz, R., Bennet, P., Crnojevic, D., Caldwell, N., *Strader, J.*, Toloba, E. 2022, The Astrophysical Journal, 935, 50

301. Young, blue, and isolated stellar systems in the Virgo Cluster. II. A new class of stellar system.

Jones, M., Sand, D., Bellazzini, M., Spekkens, K., Karunakaran, A., Adams, E., Battaglia, G., Beccari, G., Bennet, P., Cannon, J., Cresci, G., Crnojevic, D., Caldwell, N., Fuson, J., Guhathakurta, P., Haynes, M., Inoue, J., Magrini, L., Munoz, R., Mutlu-Pakdil, B., Seth, A., *Strader, J.*, Toloba, E., Zaritsky, D. 2022, *The Astrophysical Journal*, 935, 51

300. AGC 226178 and NGVS 3543: Two deceptive dwarfs towards Virgo.

Jones, M., Sand, D., Bellazzini, M., Spekkens, K., Cannon, J., Mutlu-Pakdil, B., Karunakaran, A., Beccari, G., Magrini, L., Cresci, G., Inoue, J., Fuson, J., Adams, E., Battaglia, G., Bennet, P., Crnojevic, D., Caldwell, N., Guhathakurta, P., Haynes, M., Munoz, R., Seth, A., *Strader, J.*, Toloba, E., Zaritsky, D. 2022, *The Astrophysical Journal*, 926, 15

299. Optimization of the observing cadence for the Rubin Observatory Legacy Survey of Space and Time: A pioneering process of community-focused experimental design.

Bianco, F., Ivezić, Z., Jones, R. L., Graham, M., Marshall, P., Saha, A., Strauss, M., Yoachim, P., Ribeiro, T., Anguita, T., Bauer, A., Bauer, F., Bellm, E., Blum, R., Brandt, W., Brough, S., Catelan, M., Clarkson, W., Connolly, A., Gawiser, E., Gizis, J., Hlozek, R., Kaviraj, S., Liu, C., Lochner, M., Mahabal, A., Mandelbaum, R., McGehee, P., Neilsen, E., Olsen, K., Peiris, H., Rhodes, J., Richards, G., Ridgway, S., Schwamb, M., Scolnic, D., Shemmer, O., Slater, C., Slosar, A., Smartt, S., *Strader J.*, Street, R., Trilling, D., Verma, A., Vivas, A. K., Wechsler, R., Willman, B. 2022, *The Astrophysical Journal Supplement Series*, 258, 1

298. Hubble Space Telescope observations of NGC 253 dwarf satellites: Discovery of three ultra-faint dwarf galaxies.

Mutlu-Pakdil, B., Sand, D., Crnojevic, D., Jones, M., Caldwell, N., Guhathakurta, P., Seth, A., Simon, J., Spekkens, K., *Strader, J.*, Toloba, E. 2022, *The Astrophysical Journal*, 926, 77

297. Hubble Space Telescope imaging of isolated Local Volume dwarfs GALFA-Dw3 and Dw4.

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