

## 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

Associate Professor, Michigan State University	2017–
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

Packard Fellowship, 2015–2020  
Research Corporation Scialog Fellow, 2018  
Menzel Fellowship, 2010–2012  
Hubble Fellowship, 2007–2010  
ARCS Scholarship, 2006  
Whitford Prize (UC-Santa Cruz), 2004  
NSF Graduate Research Fellowship, 2003–2006  
Provost’s Fellowship (UC-Santa Cruz), 2002

### Research Grants (Amounts to Strader at MSU listed)

2018: National Science Foundation (\$48K)  
2018: XMM (\$61K)  
2018: Chandra (\$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 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

Chair, Star Clusters Science Subgroup for Large Synoptic Survey Telescope 2013–  
Member, Stars, Milky Way, and Local Volume Science Working Group for Large  
Synoptic Survey Telescope. 2008–

Principal Organizer, “Compact Objects in Michigan”, East Lansing, MI, 2017  
Scientific Organizer, “Search for Dwarf Companions of the Milky Way and Beyond”,  
Tucson, AZ, 2017  
Scientific Organizer, “Sexten Center for Astrophysics Conference on Globular Clus-  
ters”, Italy, 2017  
Scientific Organizer, “SOAR Science 2020”, UNC/Rio de Janeiro, Brazil, 2017  
Scientific Organizer, “Globular Clusters and Galaxy Halos”, Netherlands, 2016  
Principal Organizer, “Compact Objects in Michigan”, East Lansing, MI, 2014  
Organizer, OIR Seminar, Harvard/CfA. 2010–2012

External Reviewer, Cycle 25 *Hubble Space Telescope* Proposal Review, 2018  
External Reviewer, PhD thesis, Itumeleng Monageng (Univ. of Cape Town), 2018  
Member, National Science Foundation Review Panel. 2015, 2016  
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, *The Astrophysical Journal*, *The Astrophysical Journal Letters*, *The Astro-*

*nomical Journal, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society.* 2004–

Proposal Review, Gemini, CFHT, Chilean FONDECYT, Chinese Telescope Access Program, Swiss NSF. 2004–

Associate Chair for Astronomy, MSU 2018–

Astronomy Graduate Program Director, MSU 2018–

Member, Graduate Program Committee, MSU 2018–

Member, Search Committee for AST/CMSE Faculty Position, MSU. 2017–2018

Organizer, AST Seminar, MSU. 2012–2015, 2017–

Member, PHY/AST Colloquium Committee, MSU. 2017–

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–

Member, MSU PhD Thesis Committees (non-advisees: Tom Connor; Greg Meece, Ryan Connolly, Devyn Rysewyk, Kristen Dage, Dana Koeppe). 2013–

## Students Advised

### Graduate Students:

2018– Teresa Panurach (MSU)

2015– Samuel Swihart (MSU)

2013– Laura Shishkovsky (MSU)

2013–2015 Tom Hettinger (MSU PhD 2015; now data scientist at Hotels.com)

2010–2012 Sooyoung Kim (Yonsei)

2007–2010 Julie Nantais (Harvard)

2005–2007 Kieran Forde (Galway)

### Undergraduate/High School Students:

2018 Luis Bariuan (Mission Vista High School)

2018 Joey Seitz (MSU)

2018 Alexa Muethel (MSU)

2018 Matthew Floyd (REU student)

2017–2018 Huei Sears (MSU)

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 Arizona St.)

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)

### **Postdocs Advised**

2018– Kirill Sokolovsky  
2018– Ryan Urquhart  
2018– Abigail Stevens (NSF AAFP Fellow at MSU)  
2015–2018 Kwan-Lok Li (now fellow, Korea Astronomy and Space Science Institute)  
2016–2018 Chris Britt (now Education & Outreach Scientist, STScI)  
2016–2018 Arash Bahramian (now research associate with J. Miller-Jones, Curtin U.),  
2015–2017 Evangelia Tremou (now research associate with S. Corbel, CEA Saclay)  
2013–2016 Mark Peacock (now research associate with S. Zepf, MSU)  
2013–2015 Ricardo Salinas (now tenure-track scientist at Gemini, La Serena, Chile)

### **Invited Talks (since 2010)**

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)

*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, CO; June 2014)  
*Dwarf Galaxies as Cosmological Probes* (Aspen, CO; 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, CO; Jun 2011)  
*Hubble Fellows Symposium* (Baltimore, MD; Mar 2010)

### **Approved Telescope Proposals as PI (since 2010)**

XMM: (2017, 73 ksec)  
Hubble Space Telescope: (2015, 11 orbits; 2012, 28 orbits)  
Chandra X-ray Observatory: (2015, 190 ksec; 2014, 33 ksec; 2012, 85 ksec)  
Very Large Array: (2014, 228 hours; 2013, 188 hours; 2012, 26 hours)  
Australia Telescope Compact Array: (2017, 19 hours; 2013, 94.5 hours)  
Very Large Telescope: (2014, 1 hr; 2013, 4 hr)  
Swift: (2014, 36 ksec)  
MMT: (2012, 14 nights; 2011, 5 nights; 2010, 1 night)  
Magellan: (2011, 3 nights; 2010, 2 nights)

### **Public Outreach**

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: 227 refereed papers total (7585 citations); 26 first-author refereed papers (1124 citations). *h*-index = 48.

### 2019

**227. Optical spectroscopy and demographics of redback millisecond pulsar binaries.**

*Strader, J., Swihart, S., Chomiuk, L. Bahramian, A., Britt, C., Cheung, C., Dage, K., Halpern, J., Li, K., Mignani, R., Orosz, J., Peacock, M., Salinas, R., Shishkovsky, L., Tremou, E.* 2019, *The Astrophysical Journal*, in press

**226. Improved dynamical constraints on the masses of the central black holes in nearby low-mass early-type galactic nuclei and the first black hole determination for NGC 205.**

*Nguyen, D., Seth, A., Neumayer, N., Iguchi, S., Cappellari, M., Strader, J., Chomiuk, L., Tremou, E., Pacucci, F., Nakanishi, K., Bahramian, A., Nguyen, P., den Brok, M., Ahn, C., Voggel, K., Kacharov, N., Tsukui, T., Takafumi, N., Ly, C., Dumont, A., Pechetti, R.* 2019, *The Astrophysical Journal*, in press

**225. The faint end of the Centaurus A satellite luminosity function.**

*Crnojevic, D., Sand, D., Bennet, P., Pasetto, S., Spekkens, K., Caldwell, N., Guhathakurta, P., McLeod, B., Seth, A., Simon, J., Strader, J., Toloba, E.* 2019, *The Astrophysical Journal*, in press

**224. The ASAS-SN bright supernova catalog—IV. 2017.**

*Holoien, T., Brown, J., Valley, P., Stanek, K., Kochanek, C., Shappee, B., Prieto, J., Dong, S., Brimacombe, J., Bishop, D., Bose, S., Beacom, J., Bersier, D., Chen, P., Chomiuk, L., Falco, E., Jayasinghe, T., Morrell, N., Pojmanski, G., Shields, J., Strader, J., Stritzinger, M., Thompson, T., Wozniak, P., Cacella, P., Carballo, J., Conseil, E., Cruz, I., Farfan, R., Fernandez, J., Kiyota, S., Koff, R., Krannich, G., Marples, P., Masi, G., Monard, L., Nicholls, B., Nicolas, J., Post, R., Stone, G., Trappett, D., Wiethoff, W.* 2019, *Monthly Notices of the Royal Astronomical Society*, in press

### 2018

**223. A multi-wavelength view of the neutron star binary 1FGL J1417.7–4402: A progenitor to canonical millisecond pulsars.**

*Swihart, S., Strader, J., Shishkovsky, L., Chomiuk, L., Bahramian, A., Heinke, C., Miller-Jones, J., Edwards, P., Cheung, C.* 2018, *The Astrophysical Journal*, 866, 83

**222. The MAVERIC survey: A transitional millisecond pulsar candidate in Terzan 5.**

Bahramian, A., *Strader, J.*, Chomiuk, L., Heinke, C., Miller-Jones, J., Degenaar, N., Tetarenko, A., Tudor, V., Tremou, E., Shishkovsky, L., Wijnands, R., Maccarone, T., Sivakoff, G., Ransom, S. 2018, *The Astrophysical Journal*, 864, 28

**221. A complete census of luminous stellar variability on day to decade timescales.**

Conroy, C., *Strader, J.*, van Dokkum, P., Dolphin, A., Weisz, D., Murphy, J., Dotter, A., Johnson, B., Cargile, P. 2018, *The Astrophysical Journal*, 864, 111

**220. The MAVERIC Survey: Still no evidence for accreting intermediate-mass black holes in globular clusters.**

Tremou, E., *Strader, J.*, Chomiuk, L., Shishkovsky, L., Maccarone, T., Miller-Jones, J., Tudor, V., Heinke, C., Sivakoff, G., Seth, A., Noyola, E. 2018, *The Astrophysical Journal*, 862, 16

**219. A luminous X-ray outburst from an intermediate-mass black hole in an off-centre star cluster.**

Lin, D., *Strader, J.*, Carrasco, E., Page, D., Romanowsky, A., Homan, J., Irwin, J., Remillard, R., Godet, O., Webb, N., Baumgardt, H., Wijnands, R., Barret, D., Duc, P., Brodie, J., Gwyn, S. 2018, *Nature Astronomy*, 2, 656

**218. The MAVERIC Survey: A red straggler binary with an invisible companion in the Galactic globular cluster M10.**

Shishkovsky, L., *Strader, J.*, Chomiuk, L., Bahramian, A., Tremou, E., Li, K., Salinas, R., Tudor, V., Miller-Jones, J., Maccarone, T., Heinke, C., Sivakoff, G. 2018, *The Astrophysical Journal*, 815, 55

**217. Multiwavelength follow-up observations of the tidal disruption event candidate 2XMMi J184725.1-631724.**

Lin, D., *Strader, J.*, Carrasco, E., Godet, O., Grupe, D., Webb, N., Barret, D., Irwin, J. 2018, *Monthly Notices of the Royal Astronomical Society*, 474, 3000

**216. Evidence on the orbital modulated gamma-ray emissions from the redback candidate 3FGL J2039.6-5618.**

Ng, C., Takata, J., *Strader, J.*, Li, K., Cheng, K. 2018, *The Astrophysical Journal*, 867, 9

**215. Unconventional origin of supersoft X-ray emission from a white dwarf binary.**

Maccarone, T., Nelson, T., Brown, P., Mukai, K., Charles, P., Rajoelimanana, A., Buckley, D., *Strader, J.*, Chomiuk, L., Britt, C., Jha, S., Mroz, P., Udalski, A., Szymanski, M., Soszynski, I., Poleski, R., Kozłowski, S., Pietrukowicz, P., Skowron, J., Ulaczyk, K. 2018, *Nature Astronomy*, in press

**214. ASASSN-18ey: The rise of a new black-hole X-ray binary.** Tucker,

M., Shappee, B., Holoien, T., Auchettl, K., *Strader, J.*, Stanek, K., Kochanek, C., Bahramian, A., Dong, S., Prieto, J., Thompson, T., Beacom, J., Chomiuk, L., Denneau, L., Flewelling, H., Heinze, A., Smith, K., Stalder, B., Tonry, J., Weiland, H., Rest, A., Huber, M., Rowan, D., Dage, K. 2018, *The Astrophysical Journal Letters*, 867, 9

**213. Multi-wavelength observations of a new redback millisecond pulsar candidate: 3FGL J0954.8–3948.**

Li, K., Hou, X., *Strader, J.*, Takata, J., Kong, A., Chomiuk, L., Swihart, S., Hui, C., Cheng, K. 2018, *The Astrophysical Journal*, 863, 194

**212. Hubble Space Telescope FUV observations of M31’s globular clusters suggest a spatially homogeneous helium-enriched sub population.**

Peacock, M., Zepf, S., Maccarone, T., Kundu, A., Knigge, C., Dieball, A., *Strader, J.* 2018, *Monthly Notices of the Royal Astronomical Society*, 481, 3313

**211. Three Hypervelocity White Dwarfs in Gaia DR2: Evidence for Dynamically Driven Double-Degenerate Double-Detonation Type Ia Supernovae.**

Shen, K., Boubert, D., Gansicke, B., Jha, S., Andrews, J., Chomiuk, L., Foley, R., Fraser, M., Gromadzki, M., Guillochon, J., Kotze, M., Maguire, K., Siebert, M., Smith, N., *Strader, J.*, Badenes, C., Kerzendorf, W., Koester, D., Kromer, M., Miles, B., Pakmor, R., Schwab, J., Toloza, O., Toonen, S., Townsley, D. 2018, *The Astrophysical Journal*, 865, 15

**210. The SLUGGS Survey: The inner dark matter density slope of the massive elliptical galaxy NGC 1407.**

Wasserman, A., Romanowsky, A., Brodie, J., van Dokkum, P., Conroy, C., Villaume, A., Forbes, D., *Strader, J.*, Alabi, A., Bellstedt, S. 2018, *The Astrophysical Journal*, 863, 130

**209. Multiwavelength observations of V407 Lupi (ASASSN-16kt)—a very fast nova erupting in an intermediate-polar.**

Aydi, E., Orio, M., Beardmore, A., Ness, J.-U., Page, K., Kuin, P., Walter, F., Buckley, D., Mohamed, S., Whitelock, P., Osborne, J. *Strader, J.*, Chomiuk, L., Darnley, M., Dobrotka, A., Kniazev, A., Miszalski, B., Myers, G., Ospina, N., Henze, M., Starrfield, S., Woodward, C. 2018, *Monthly Notices of the Royal Astronomical Society*, 480, 572

**208. Revisiting hypervelocity stars after Gaia DR2.**

Boubert, D., Guillochon, J., Hawkins, K., Ginsburg, I., Evans, N., *Strader, J.* 2018, *Monthly Notices of the Royal Astronomical Society*, 479, 2789

**207. A 3.5 million solar masses black hole in the centre of the ultracompact dwarf galaxy Fornax UCD3.**

Afanasiev, A., Chilingarian, I., Mieske, S., Voggel, K., Picotti, A., Hilker, M., Seth, A., Neumayer, N., Frank, M., Romanowsky, A.,

Hau, G., Baumgardt, H., Ahn, C., Strader, J., den Brok, M., McDermid, R., Spitler, L., Brodie, J., Walsh, J. 2018, Monthly Notices of the Royal Astronomical Society, 477, 4856

**206. The black hole in the most massive ultracompact dwarf galaxy M59-UCD3.**

Ahn, C., Seth, A., Cappellari, M., Krajnovic, D., *Strader, J.*, Voggel, K., Walsh, J., Bahramian, A., Baumgardt, H., Brodie, J., Chilingarian, I., Chomiuk, L., den Brok, M., Frank, M., Hilker, M., McDermin, R., Mieske, S., Neumayer, N., Nguyen, D., Pechetti, R., Romanowsky, A., Spitler, L. 2018, The Astrophysical Journal, 858, 102

**205. Upper limits on the presence of central massive black holes in two ultra-compact dwarf galaxies in Centaurus A.**

Voggel, K., Seth, A., Neumayer, N., Mieske, S., Chilingarian, O., Ahn, C., Baumgardt, H., Hilker, M., Nguyen, D., Romanowsky, A., Walsh, J., den Brok, M., *Strader, J.* 2018, The Astrophysical Journal, 858, 20

**204. A high-precision trigonometric parallax to an ancient metal-poor globular cluster.**

Brown, T., Casertano, S., *Strader, J.*, Riess, A., Vandenberg, D., Soderblom, D., Kalirai, J., Salinas, R. 2018, The Astrophysical Journal Letters, 856, 6

**203. HST spectrum and timing of the ultra-compact X-ray binary candidate 47 Tuc X9.**

Tudor, V., Miller-Jones, J., Knigge, C., Maccarone, T., Tauris, T., Bahramian, A., Chomiuk, L., Heinke, C., Sivakoff, G., *Strader, J.*, Plotkin, R., Soria, R., Albrow, M., Anderson, G., van den Berg, M., Bernardini, F., Britt, C., Russell, D., Zurek, D. 2018, Monthly Notices of the Royal Astronomical Society, 476, 1889

**202. Stellar variability at the main sequence turnoff of the intermediate-age LMC cluster NGC 1846.**

Salinas, R., Pajkos, M., Vivas, K., *Strader, J.*, Contreras Ramos, R. 2018, The Astronomical Journal, 155, 183

**201. IGR J17329-2731: The birth of a symbiotic X-ray binary.**

Bozzo, E., Bahramian, A., Ferrigno, C., Sanna, A., *Strader, J.*, Lewis, F., Russell, D., di Salvo, T., Burderi, L., Riggio, A., Papitto, A., Gandhi, P., Romano, P. 2018, Astronomy & Astrophysics, 613, 22

**200. A radio frequency study of the accreting millisecond X-ray pulsar, IGR J16597-3704, in the globular cluster NGC 6256.**

Tetarenko, A., Bahramian, A., Heinke, C., Maccarone, T., Miller-Jones, J., *Strader, J.*, Chomiuk, L., Degenaar, N., Sivakoff, G., Altamirano, D., Deller, A., Kennea, J., Plotkin, R., Russell, T. D., Shaw, A. 2018, The Astrophysical Journal, 854, 125

199. **Detailed abundance analysis of globular clusters in the Local Group. NGC 147, NGC 6822, and Messier 33.**

Larsen, S., Brodie, J., Wasserman, A., *Strader, J.* 2018, *Astronomy & Astrophysics*, 613, 56

198. **Multiwavelength observations of nova SMCN 2016-10a—one of the brightest novae ever observed.**

Aydi, E., Page, K., Kuin, N., Darnley, M., Walter, F., Mroz, P., Buckley, D., Mohamed, S., Whitelock, P., Woudt, P., Williams, S., Orio, M., Williams, R., Beardmore, Osborne, J., Kniazev, A., Ribeiro, V., Udalski, A., *Strader, J.*, Chomiuk, L. 2018, *Monthly Notices of the Royal Astronomical Society*, 474, 2679

197. **The ultraviolet spectroscopic evolution of the low-luminosity tidal disruption event iPTF16fnl.**

Brown, J., Kochanek, C., Holoiën, T., Stanek, K., Auchettl, K., Shappee, B., Prieto, J., Morrell, N., Falco, E., *Strader, J.*, Chomiuk, L., Post, R., Villanueva, S., Mathur, S., Dong, S., Chen, P., Bose, S. 2018, *Monthly Notices of the Royal Astronomical Society*, 473, 1130

196. **Mapping the tidal destruction of the Hercules dwarf: A wide-field DECam imaging search for RR Lyrae.**

Garling, C., Willman, B., Sand, D., Hargis, J., Crnojevic, D., Bechtol, K., Carlin, J., *Strader, J.*, Zou, H., Zhou, X., Nie, J., Zhang, T., Zhou, Z., Peng, X. 2018, *The Astrophysical Journal*, 852, 44

## 2017

195. **Formation constraints indicate a black-hole accretor in 47 Tuc X9.**

Church, R., *Strader, J.*, Davies, M., Bobrick, A. 2017, *The Astrophysical Journal Letters*, 851, 4

194. **2FGL J0846.0+2820: A new neutron star binary with a giant secondary and variable  $\gamma$ -ray emission.**

Swihart, S., *Strader, J.*, Johnson, T., Cheung, C., Sand, D., Chomiuk, L., Wasserman, A., Larsen, S., Brodie, J., Simonian, G., Tremou, E., Shishkovsky, L., Reichart, D., Haislip, J. 2017, *The Astrophysical Journal*, 851, 31

193. **A nova outburst powered by shocks.**

Li, K., Metzger, B., Chomiuk, L., Vurm, I., *Strader, J.*, Finzell, T., Beloborodov, A., Nelson, T., Shappee, B., Kochanek, C., Prieto, J., Kafka, S., Holoiën, T., Thompson, T., Lucas, P., Itoh, H. 2017, *Nature Astronomy*, 1, 697

192. **Orbital dynamics of the candidate transitional millisecond pulsar 3FGL J1544.6-1125: An unusually face-on system.**

Britt, C., *Strader, J.*, Chomiuk, L., Tremou, E., Peacock, M., Halpern, J., Salinas,

R. 2017, *The Astrophysical Journal*, 849, 21

**191. A faint globular cluster in the dwarf galaxy Andromeda I.**

Caldwell, N., *Strader, J.*, Sand, D., Willman, B., Seth, A. 2017, *Publications of the Astronomical Society of Australia*, 34, 39

**190. A likely redback millisecond pulsar counterpart of 3FGL J0838.8–2829.**

Halpern, J., *Strader, J.*, Li, M. 2017, *The Astrophysical Journal*, 844, 150

**189. The electromagnetic counterpart of the binary neutron star merger LIGO/VIRGO GW170817. III. Optical and UV spectra of a blue kilonova form fast polar ejecta.**

Nicholl, M., Berger, E., Kasen, D., Metzger, B., Elias, J., Briceno, C., Alexander, K., Blanchard, P., Chornock, R., Cowperthwaite, P., Eftekhari, T., Fong, W., Margutti, R., Villar, V., Williams, P., Brown, W., Annis, J., Bahramian, A., Brout, D., Brown, D., Chen, H., Clemens, J. C., Dennihy, E., Dunlap, B., Holz, D., Marchesini, E., Massaro, F., Moskowitz, N., Pelisoli, I., Rest, A., Ricci, F., Sako, M., Soares-Santos, M., *Strader, J.* 2017, *The Astrophysical Journal Letters*, 848, 18

**188. Optical spectroscopic observations of gamma-ray blazar candidates. VII. Follow-up campaign in the southern hemisphere.**

Pena-Herazo, H., Marchesini, E., Alvarez Crespo, N., Ricci, F., Massaro, F., Chavushyan, V., Landoni, M., *Strader, J.*, Chomiuk, L., Cheung, C. C., Masetti, N., Jimenez-Bailon, E., D'Abusco, R., Paggi, A., Milisavljevic, D., La Franca, F., Smith, H., Tosti, G. 2018, *Ap&SS*, 362, 228

**187. Deep Subaru Hyper Suprime-Cam observations of Milky Way satellites Columba I and Triangulum II.**

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## Astronomer's Telegrams

12311; 12142; 11968; 11959; 11878; 11867; 11857; 11646; 11610; 11607; 11590; 11561; 11475; 11456; 11454; 11452; 11442; 11433; 11424; 11392; 11348; 11342; 11330; 11301; 11289; 11210; 11209; 11132; 10977; 10959; 10894; 10850; 10843; 10816; 10772; 10764; 10740; 10685; 10616; 10591; 10523; 10436; 10428; 10422; 10419; 10387; 10367; 10355; 10305; 10273; 10265; 10227; 10071; 9940; 9897; 9860; 9850; 9771; 9736; 9669; 9550; 9538; 9511; 9479; 9469; 9343; 9233; 8987; 8971; 8969; 8965; 8914; 8880; 8841; 7262; 6937; 6555; 4777

## Conference Proceedings, Other Telegrams, and White Papers

### 21. **The Plane's the thing: The case for Wide-Fast-Deep coverage of the Galactic Plane and Bulge.**

*Strader, J., Aydi, E., Britt, C., Burgasser, A., Chomiuk, L., Clarkson, W., Fields, B., Gandhi, P., Girardi, L., Gizis, J., Hogan, J., Johnson, M., Lauroesch, J., Liu, M., Maccarone, T., McGehee, P., Minniti, D., Mukai, K., Murphey, C. Tanner, Roman-Lopez, A., Scaringi, S., Sobek, J., Sokolovsky, K., Wang, X.* 2018, arXiv:1811.12433 (white paper for LSST cadence optimization)

### 20. **The definitive map of the Galactic Bulge.**

Gonzalez, O., Clarkson, W., Debattista, V., Johnson, C., Rich, R. M., Bono, G., DallOra, M., Gizis, J., Kallivayalil, N., Kawata, D., Lucas, P., Minniti, D., Schiavon, R., *Strader, J., Street, R., Valenti, E., Zoccali, M.* 2018, arXiv:1812.08670 (white paper for LSST cadence optimization)

### 19. **Revealing the Galactic population of black holes.**

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### 18. **Science-Driven Optimization of the LSST Observing Strategy.**

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### 17. **Nova Scorpii 2017 = Pnv J16521887-3754189.**

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### 16. **Resolving the extended stellar halos of nearby galaxies: the wide-field PISCeS survey.**

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**13. Kinematic transitions and streams in galaxy halos.**

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