Kristen Dage Curriculum Vitæ

Graduate Student Dept. of Physics and Astronomy Michigan State University East Lansing, MI 48824 kcdage@msu.edu

https://kcdage.github.io/

Education

2015 - present	Ph.D. Astronomy and Astrophysics Michigan State University, East Lansing, MI Advisor: S.E. Zepf
2015 - 2017	M.S. Astronomy and Astrophysics Michigan State University, East Lansing, MI
2012 - 2014	B.S. Physics University of Michigan-Dearborn, Dearborn MI

Teaching and Mentoring Experience

2018	Summer student Omid Noroozi (Michigan State University). Project: searching for long and short term variability of ultraluminous X-ray sources in globular clusters.
2018	Certificate in Inclusive Inquiry STEM Education from the Institute for Scientist & Engineer Educators Professional Development Program (ISEE PDP), Santa Cruz, CA.
2018	Astronomy Instructor - GUPPY (Gifted University for Parents and Precocious Youth) Designed curriculum and instructed a class for 5th-6th graders through MSU's Gifted and Talented Education program. (June 30-July 1), East Lansing, MI.
2015 - 2018	Teaching Assistant ISP 205L -Visions of the Universe Michigan State University, East Lansing, MI
2011 - 2014	Math, Physical Sciences Tutor Academic Support Center Oakland Community College, Farmington Hills, MI

Awards and Grants

2019	AAS International Travel Grant
2018	(co-I) Chandra Cycle 20: "The Nature of the Two Globular Cluster ULXs in the Galaxy NGC 4472". Awarded 90 ks time.
2014	Outstanding Physics Student Dept. Natural Sciences, University of Michigan-Dearborn

Professional Presentations

Talks	
2019 Mar	Compact Objects in Michigan 7 (Detroit, MI), Contrib. Talk
2019 Mar	17th HEAD Meeting (Monterey, CA), Contrib. Talk
$2019 \mathrm{Jan}$	Michigan State University (East Lansing, MI), Seminar Talk
$2018 \mathrm{Aug}$	International Centre for Radio Astronomy Research (Perth, Australia), Colloquium Talk
2018 Apr	Compact Objects in Michigan 6 (Ann Arbor, MI), Contrib. Talk
$2017~\mathrm{Mar}$	Compact Objects in Michigan 5 (East Lansing, MI), Contrib. Talk
2017 Feb	Gemini South Observatory, (La Serena, Chile), Colloquium Talk
2014 Apr	Compact Objects in Michigan 2 (East Lansing, MI), Contrib. Talk
Posters	
2019 May	Star Clusters: from the Milky Way to the Early Universe: IAU Symposium 351 & MODEST-19 (Bologna, Italy)
$2018 \mathrm{\ Aug}$	Chandra Accretion Workshop (Cambridge, MA)

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$2018~\mathrm{Mar}$	HEAD Special Meeting on High Energy Astrophysics in the 2020s and Beyond (Rosemont, IL)
$2017 \mathrm{Jan}$	229th American Astronomical Society meeting (Grapevine, TX)
2014 Nov	Annual Physics Undergrad Research Conference at Wayne State University (Detroit, MI)
2014 Jun	218th American Astronomical Society meeting (Boston, MA)
Outreach	
2019	Public talk on "Searching for Gamma Ray Counterparts to Low Mass X-Ray Binaries" for Astronomy on Tap, Lansing, MI
2019	Event co-Supervisor, Science Olympiad State levels divisions B (Solar System) and C (Astronomy), East Lansing, MI
2019	MSU Science Festival Expo Days (Primary Astronomy Organizer), East Lansing, MI
2019	Organized an event in response to the IAU Women and Girls in Astronomy Month at MSU's Abrams Planetarium, East Lansing, MI
2019	Volunteer for CUWiP (Conference for Undergraduate Women in Physics) hosted at MSU, East Lansing, MI
2018	Volunteer at MSU Observatory's Nature Night, East Lansing, MI
2018	Public talk on "History of Astronomy" for Astronomy on Tap, Lansing MI (slides)
2018	MSU Science Festival Expo Days (Primary Astronomy Organizer), East Lansing, MI
2017	Public talk for Capital Area Astronomy Association, East Lansing, MI
2017	Public talk on "Observing in Chile" for Astronomy on Tap, Lansing MI
2016	Volunteer at MSU Science Festival Expo Days, East Lansing, MI
2015	Volunteer, Science Exploration Days, Dearborn, MI
2014	Volunteer, Science Olympiad Regional levels division B (Solar System), Dearborn, MI

Academic Service

2017-2018	Mentor for REU students and incoming graduate students through MSU's WAMPS (Women and Minorities in Physical Sciences), East Lansing, MI.
2016-	Organizer of MSU Astronomy group journal discussion, East Lansing, MI.

Analysis and Software

- X-ray spectroscopy, imaging and timing analysis (Chandra, XMM-Newton, RXTE/ASM, Swift/BAT, MAXI)
- Optical spectroscopy (SOAR/GHTS, Gemini/GMOS, VLT/FORS2)
- Ultraviolet imaging and photometry (Swift/UVOT, GALEX)
- Infrared imaging (Spitzer/IRAC)
- Gamma-ray binned likelihood analysis (Fermi/LAT)
- Conducting optical observations (SOAR observatory)
- Programming: Python, Mathematica
- Major astronomical packages: AstroPy, CIAO, HEASoft (XSpec, FTools), IRAF, Fermitools

Publications

Refereed

- 1. K. C. Dage, S. E. Zepf, A. Bahramian, A. Kundu, T. J. Maccarone, M. B. Peacock, "X-Ray Variability from the Ultraluminous Black Hole Candidate X-ray Binary in the Globular Cluster RZ 2109", 2018, ApJ, Accepted.
- 2. K.C. Dage, W.I. Clarkson, P.A. Charles, S. Laycock, I-C. Shih "A Search for Spin-Superorbital Period Correlation in SMC X-1", 2018, MNRAS, accepted.
- 3. M. A. Tucker, et al "ASASSN-18ey: The Rise of a New Black-Hole X-ray Binary" 2018, ApJ, Accepted.
- 4. Strader, J.; et al "Optical spectroscopy and demographics of redback millisecond pulsar binaries", 2018, ApJ, Accepted.

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- **5. K.C. Dage**, S.E. Zepf, M.B. Peacock, A. Bahramian, O. Noroozi, A.Kundu, T.J. Maccarone, "X-Ray Spectral Variability of Ultraluminous X-Ray Sources in Extragalactic Globular Clusters", 2019 MNRAS, accepted.
- **6.** E. Aydi, **et al** "Flaring, Dust Formation, And Shocks In The Very Slow Nova ASASSN-17pf (LMCN 2017-11a), 2019, submitted

Unrefereed

- 1. Dage, K., et al, "Spectroscopic Classification of SN 2018agk with SOAR/Goodman", 2018, The Astronomer's Telegram, No. 11433
- 2. Bahramian, A., Strader, J., Dage K., "SOAR/Goodman optical spectroscopy of MAXI J1820+070", 2018, The Astronomer's Telegram, No. 11424
- **3.** Sokolovsky, K.V. **et al.** "ASAS-SN Discovery of a Bright Candidate Microlensing Event ASASSN-19cq", 2019, The Astronomer's Telegram, No. 12495
- 4. Sarbadhicary, S. K., et al, "SOAR optical spectroscopy of the Wolf-Rayet star WR96 during the dimming event", The Astronomer's Telegram, No. 12511
- **5.** Sokolovsky, K. V., **et al**, "ASAS-SN Discovery of a Bright Candidate Microlensing Event ASASSN-19cq", The Astronomer's Telegram, No. 12495

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6. Strader, J.; Chomiuk, L.; **Dage, K.**; Prieto, J. L.; Stanek, K. Z., "Spectroscopic classification of ASASSN-19kz as a young Type II supernova in NGC 2207", The Astronomer's Telegram, No. 12706

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