

# Kristen Dage

## Curriculum Vitæ

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

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<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 Experience

- 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)
- 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

- 2014 Outstanding Physics Student *Dept. Natural Sciences, University of Michigan-Dearborn*

### Accepted Proposals

co-I, Chandra Cycle 20: *"The Nature of the Two Globular Cluster ULXs in the Galaxy NGC 4472"*. Awarded 90 ks time.

### Professional Presentations

- 2018 Apr Compact Objects in Michigan 6 (Ann Arbor, MI), Contrib. Talk
- 2018 Mar HEAD Special Meeting on High Energy Astrophysics in the 2020s and Beyond (Rosemont, IL), ([Poster presentation](#))
- 2017 Mar Compact Objects in Michigan 5 (East Lansing, MI), Contrib. Talk
- 2017 Feb Gemini South Observatory, (La Serena, Chile), Seminar Talk
- 2017 Jan 229th American Astronomical Society meeting (Grapevine, TX), Poster presentation
- 2014 Nov Annual Physics Undergrad Research Conference (Wayne State University), Poster presentation
- 2014 Jun 218th American Astronomical Society meeting (Boston, MA), ([Poster presentation](#))
- 2014 Apr Compact Objects in Michigan 3 (East Lansing, MI), Contrib. Talk

### Astronomy Public Outreach Activities

- 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 ([slides](#))

## Refereed Publications

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 X-ray binary in the globular cluster RZ 2109*”, 2018, [The Astrophysical Journal, 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, submitted.
3. K.C. Dage, S.E. Zepf, M.B. Peacock, A. Bahramian, A.Kundu, T.J. Maccarone, “*Ultraluminous X-Rays in Extragalactic Globular Clusters*”, 2018 (in prep)

## Experience and analysis skills

- X-ray spectroscopy, imaging analysis (*Chandra*, *XMM-Newton*, *RXTE*)
- Optical spectroscopy analysis (*SOAR/GHTS*, *Gemini/GMOS*)
- Conducting optical observations (*SOAR* observatory)
- Programming: Python, Mathematica
- Major astronomical packages: AstroPy, CIAO, HEASoft (XSpec, FTools), IRAF