

Kristen Garofali

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EDUCATION

PHD IN ASTRONOMY, UNIVERSITY OF WASHINGTON | 2018

THESIS: *X-ray Insights into Massive Star Evolution: the X-ray Source Population of M33 as seen by XMM-Newton, Chandra, and the Hubble Space Telescope*

BS IN ASTROPHYSICS, PHYSICS (SUMMA CUM LAUDE), MICHIGAN STATE UNIVERSITY | 2012

RESEARCH INTERESTS

Multiwavelength characterization of resolved populations of massive star and binary evolution products (X-ray binaries and supernova remnants) in nearby galaxies.

RESEARCH POSITIONS

POSTDOCTORAL FELLOW, University of Arkansas Dept. of Physics | September 2018-present

GRADUATE RESEARCH ASSISTANT, University of Washington Dept. of Astronomy | 2013-2018

UNDERGRADUATE RESEARCH ASSISTANT, University of Toledo Dept. of Physics & Astronomy | 2011-2012

UNDERGRADUATE RESEARCH ASSISTANT, Michigan State University Dept. of Physics & Astronomy | 2010-2012

RESEARCH GRANTS AND PROPOSALS

PI: CHANDRA CYCLE 19 AR PROPOSAL | 2017

“Using High-Mass X-ray Binaries to Probe Massive Binary Evolution”

Co-I: Hubble Space Telescope CYCLE 23 AR PROPOSAL | 2015

“Finding and Aging the Population of High-Mass X-ray Binaries in M33”

AWARDS & FELLOWSHIPS

DATA SCIENCE FOR SOCIAL GOOD FELLOW, University of Washington eScience Institute | 2015

NANCY AND DOUG NORBERG ARCS FELLOW, Seattle ARCS Foundation | 2012-2015

THOMAS H. OSGOOD UNDERGRADUATE PHYSICS AWARD, Michigan State University | 2012

TEACHING

INSTRUCTOR Astronomy 101, University of Washington | Summer 2017

INSTRUCTOR Robinson Center for Young Scholars, University of Washington | 2015-2016

INSTRUCTOR Pre-Major in Astronomy Program (Pre-MAP) Research Seminar, University of Washington | Fall 2015

SECTION INSTRUCTOR University of Washington Math and Science Upward Bound | Summer 2016

TEACHING ASSISTANT Astronomy 101, 150, University of Washington

OUTREACH

FOUNDER & Co-ORGANIZER, ASTRONOMY ON TAP SEATTLE | 2015-2018

PLANETARIUM COORDINATOR, University of Washington Planetarium | 2015-2017

TECHNICAL SKILLS

Programming: Python • R • IDL • C

Analysis: IRAF/PyRAF • XSPEC • CIAO • SAS • DS9

TALKS & PRESENTATIONS

IAU Symposium 346: HMXBs, Contributed Talk | Vienna, Austria, Summer 2018

AAS 232 Dissertation Talk | National Harbor, MD, Winter 2018

UC Santa Cruz FLASH Seminar | Santa Cruz, CA, Fall 2017

Northwestern CIERA Theory Group | Evanston, IL, Fall 2017

Harvard-Smithsonian CfA HEAD Seminar | Cambridge, MA, Fall 2017

McGill Space Institute Astrophysics Seminar, Invited Talk | Montreal, QC, Fall 2017

The Impact of Binaries on Stellar Evolution, Contributed Talk | ESO Garching, Summer 2017

PUBLICATIONS

- **Garofali, K.**, Williams, B.F., Hillis, T., et al., 2018, MNRAS, 479, 3526: *“Formation Timescales for High-Mass X-ray Binaries in M33”*
- **Garofali, K.**, Williams, B.F., Plucinsky, P.P et al., 2017, MNRAS, 472, 308: *“Supernova Remnants in M33: X-ray Properties as Observed by XMM-Newton”*
- Williams, B.F., Wold, B., Haberl, F., **Garofali, K.** et al., 2015, ApJS, 218, 9: *“A Deep XMM-Newton Survey of M33: Point Source Catalog, Source Detection, and Characterization of Overlapping Fields”*
- **Garofali, K.**, Coverse, J.M., Chandar, R., & Rangelov, B., 2012, ApJ 755, 49G: *“On the Dynamical Formation of Very Young, X-Ray Emitting Black Hole Binaries in Dense Star Clusters”*

CONFERENCE PROCEEDINGS

- **Garofali, K.**, Williams, B.F., 2017, IAU Symposium Vol. 329, The Lives and Death Throes of Massive Stars: *“The Ages of High-Mass X-ray Binaries in M33”*

PROFESSIONAL REFERENCES

Prof. Benjamin F. Williams
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