

Kristen Garofali

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EDUCATION

PHD IN ASTRONOMY, UNIVERSITY OF WASHINGTON | EXPECTED SUMMER 2018

Advisor: Professor Benjamin Williams

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

Advisor: Professor Nicholas Sterling

RESEARCH EXPERIENCE

RESEARCH ASSISTANT, University of Washington Dept. of Astronomy | Summer 2013-present

- **Area of Research: probing massive star and binary evolution via X-ray source populations (supernova remnants and high-mass X-ray binaries)**
- Advisor: Professor Benjamin Williams

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

- **Area of Research: N-body simulations of X-ray binaries in star clusters**
- Advisors: Professor Rupali Chandar and Dr. Joseph Converse

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

- **Area of Research: high-resolution spectroscopy of planetary nebulae**
- Advisor: Professor Nicholas Sterling

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 | Fall 2015-Fall 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 | Winter 2015-present

PLANETARIUM COORDINATOR, University of Washington Planetarium | Fall 2015-Fall 2017

AMERICAN ASTRONOMICAL SOCIETY ASTRONOMY AMBASSADORS PROGRAM

UNIVERSITY OF WASHINGTON MOBILE PLANETARIUM PRESENTER

TECHNICAL SKILLS

Programming: Python • R • IDL • C

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

TALKS & PRESENTATIONS

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., 2017, *MNRAS*, **submitted**: “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

PhD Advisor

Department of Astronomy

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