

# Kristen Garofali

kgarofali.github.io  
garofali@uw.edu | 248.953.1544  
Github:// kgarofali  
Twitter:// @kgarofali

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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 2012, Summer 2013

- **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 | Fall 2015-Fall 2016

**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-present

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

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

## PUBLICATIONS

- **Garofali, K.**, Williams, B.F., Plucinsky, P.P et al. (2017), MNRAS, accepted 2017 July: “*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: “*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*”