

# Kristen Garofali

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## EDUCATION

### UNIVERSITY OF WASHINGTON

PHD IN ASTRONOMY

Expected 2018 | Seattle, WA

Advisor: Professor Benjamin Williams

### MICHIGAN STATE UNIVERSITY

BS IN ASTROPHYSICS, ADDITIONAL MAJOR PHYSICS

May 2012 | East Lansing, MI

Advisor: Professor Nicholas Sterling

Grade: *Summa cum laude*

## AWARDS & FELLOWSHIPS

### DATA SCIENCE FOR SOCIAL GOOD FELLOW

UNIVERSITY OF WASHINGTON eSCIENCE INSTITUTE

2015 | Seattle, WA

### NANCY AND DOUG NORBERG ARCS FELLOW

SEATTLE ARCS FOUNDATION

2012-2015 | Seattle, WA

### THOMAS H. OSGOOD UNDERGRADUATE PHYSICS AWARD

MICHIGAN STATE UNIVERSITY

2012 | East Lansing, MI

## SKILLS

### PROGRAMMING

Python • R • C • IDL

### ASTRONOMY SOFTWARE

IRAF • DS9 • SAS • XSPEC • CIAO • STARLAB

## RESEARCH EXPERIENCE

### UNIVERSITY OF WASHINGTON DEPT. OF ASTRONOMY RESEARCH ASSISTANT

Summer 2013-present | Seattle, WA

- Advisor: Professor Benjamin Williams
- Area of Research: high mass X-ray binaries and supernova remnants

### UNIVERSITY OF WASHINGTON ESCIENCE INSTITUTE DATA SCIENCE FOR SOCIAL GOOD: PARATRANSIT TEAM

Summer 2015 | Seattle, WA

- Advisor: Professor Anat Caspi
- Project: Built a system recovery algorithm for King County Metro's Access paratransit bus service

### UNIVERSITY OF TOLEDO DEPT. OF PHYSICS & ASTRONOMY RESEARCH ASSISTANT

Summer 2012, Summer 2013 | Toledo, OH

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

## MICHIGAN STATE UNIVERSITY DEPT. OF PHYSICS & ASTRONOMY RESEARCH ASSISTANT

Fall 2010-Summer 2012 | East Lansing, MI

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

## TEACHING

**INSTRUCTOR** PRE-MAJOR IN ASTRONOMY RESEARCH SEMINAR

Fall 2015 | Seattle, WA

**INSTRUCTOR** ROBINSON CENTER FOR YOUNG SCHOLARS

Fall 2015-Fall 2016 | Seattle, WA

**INSTRUCTOR** UNIVERSITY OF WASHINGTON MATH AND SCIENCE UPWARD BOUND

Summer 2016 | Seattle, WA

**TEACHING ASSISTANT** ASTRONOMY 101, 150, 207 & PHYSICS 252

Fall 2010-Spring 2013, Winter 2016 | Seattle, WA & East Lansing, MI

## OUTREACH

**PLANETARIUM COORDINATOR** UNIVERSITY OF WASHINGTON PLANETARIUM

Fall 2015-present | Seattle, WA

**CO-FOUNDER & ORGANIZER** ASTRONOMY ON TAP SEATTLE

Winter 2015-present | Seattle, WA

**ASTRONOMY AMBASSADOR** AMERICAN ASTRONOMICAL SOCIETY ASTRONOMY AMBASSADORS PROGRAM

Winter 2015-present | Seattle, WA

## REFEREED JOURNAL PUBLICATIONS & PRESENTATIONS

- 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.**, Converse, 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"
- **Garofali, K.**, Robinson, R., & Thoennesen, M. (2010), Atomic Data Nuclear Data Tables, accepted: "Discovery of Chromium, Manganese, Nickel, and Copper Isotopes"
- Poster. "The X-ray Source Population of M33 as Seen by XMM-Newton." **Garofali, K.**, Williams, B.F., Wold, B., et al., AAS Meeting 225, 336.01 (Seattle, WA, 2015)
- Poster. "The X-ray Source Population of M33 as Seen by XMM-Newton." **Garofali, K.**, Chandra Science Workshop: X-ray View of Galaxy Ecosystems (Boston, MA 2014)
- Poster. "The Dynamical Formation of Young Black Hole Binaries in Dense Star Clusters." **Garofali, K.**, Converse, J., Chandar, R., & Rangelov, B., AAS Meeting 219, 151.28 (Austin, TX 2012)