

# Kathryn F. Neugent

Postdoctoral researcher studying massive stars  
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## ■ Education

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<b>University of Washington</b> , Seattle, Washington	2017 - 2021
Ph.D. and M.S. in Astronomy	
Thesis: “The Binary Fraction of Red Supergiants”	
Advisor: Dr. Emily Levesque	
<b>Northern Arizona University</b> , Flagstaff, Arizona	2015 - 2017
M.S. with Distinction in Applied Physics	
Thesis: “The Discovery and Analysis of a New Type of Wolf-Rayet Star”	
Advisor: Dr. Philip Massey	
<b>George Washington University</b> , Washington D. C.	2010 - 2012
M.S. in Computer Science	
Certificate in Cyber Security and Information Assurance	
<b>Wellesley College</b> , Wellesley, Massachusetts	2006 - 2010
B.A. in Computer Science and Astronomy	

## ■ Research Appointments

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<b>Dunlap Postdoctoral Fellow</b> , Dunlap Institute, University of Toronto	2021 - Present
<b>Research Associate</b> , Lowell Observatory	2009 - Present
Observations of massive stars in Local Group galaxies with Dr. Philip Massey	
<b>Astronomy Research Student</b> , Wellesley College	2007 - 2009
Azimuthal brightness variations in Saturn’s rings with Dr. Richard French	
Rotation periods of Koronis family asteroids with Dr. Steve Slivan	
<b>MIT / Wellesley Field Camp Participant</b> , Lowell Observatory	2008
Characterizing the Xenix CCD to monitor Titan with Dr. Henry Roe	

## ■ Non-Research Appointments

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<b>Senior Web Security Specialist</b> , National Renewable Energy Lab	2014 - 2015
<b>Cyber Security Engineer</b> , MITRE Corporation	2012 - 2013

## ■ Teaching & Advising

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<b>Graduate Teaching Assistant</b> , Astronomy, University of Washington	2020
<b>Graduate Teaching Assistant</b> , Physics, Northern Arizona University	2015 - 2016
<b>Undergraduate Teaching Assistant</b> , Comp. Sci. & Astronomy, Wellesley College	2006 - 2009
<b>Research advisor</b>	
• Tzvetelina Dimitrova, UW undergraduate	2019 - Present
• Pre-MAP (Majors in Astronomy & Physics): two UW first-year undergrads	Fall 2020

## ■ Awards, Leadership, and Outreach

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UW’s Distinguished Dissertation Award recipient	2021
Skype a Scientist participant	2020 - Present
Letter to a Pre-Scientist pen pal	2020 - Present
A&A, ApJ, AJ, and MNRAS referee	2017 - Present

Look What the Cat Brought In board member	2013 - Present
Apache Point observatory telescope allocation committee member	2018 - 2020
UW Planetarium presenter	2017 - 2020

## ■ Conference Presentations

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### Invited Talks (6)

IAUS #361: “Massive Stars Near and Far” in Ballyconnell, Ireland	2022
“The Wolf-Rayet Phenomenon in the Universe” in Morelia, Mexico	2022
GAPS 2021 – unsolved problems in red Giants And suPergiantS	2021
AAS #238: Special Session on Thorne-Żytkow Objects	2021
“NidiaFest: Massive Stars and Supernovae” in Bariloche, Argentina	2018
EWASS Conference in Prague, Czech Republic	2017

### Contributed Talks (8)

“Stars on the Pathway to becoming GW Sources” at the EAS	2021
IAUS #361: “Massive Stars Near and Far” Virtual Preview Meeting	2021
AAS #237, Dissertation Talk	2021
MOBSTER-1 Virtual Conference	2020
MMT’s 40th Anniversary Conference in Tucson, Arizona	2019
IAUS #329: “The lives and death-throes of massive stars” in Auckland, New Zealand	2016
“The International Workshop on WRs” in Potsdam, Germany	2015
“Massive Stars: From $\alpha$ to $\Omega$ ” in Rhodes, Greece	2013

### Posters (6)

AAS Meeting #233	2019
AAS Meeting #231	2018
“Bridging the gap: from massive stars to supernovae” at Chicheley Hall, England	2016
IAU #307: “New windows on massive stars” in Geneva, Switzerland	2014
AAS Meeting #218	2011
AAS Meeting #215	2010

## ■ Colloquia & Public Talks

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MIT lunch talk	2021
University of Toronto colloquium	2021
DAO / NRC HAA Astronomy colloquium	2021
Case Western Reserve University colloquium	2021
Denver University colloquium	2021
NOIR Lab / Steward colloquium	2021
University of Auckland Astronomy seminar	2021
OSU’s CCAPP seminar	2020
CalTech tea talk	2020
Harvard / CfA’s Galaxies & Cosmology seminar	2020
Florida Tech colloquium	2020
Lowell Observatory’s “Meet An Astronomer” public talk	2020
Skype A Scientist’s “No Time Like the Presentation” public talk	2020
Seattle’s Astronomy on Tap	2019
UW’s Theodor Jacobson Observatory public talk	2019
Geneva University, Switzerland colloquium	2018

Colorado University: Boulder lunch colloquium	2016
University of Washington lunch colloquium	2016

### ■ Telescope Time as PI\*/co-I

Telescope	Instrument	# Nights
Gemini 8m*	GMOS	8.5
MMT 6.5m*	Hectospec	18
Magellan (Clay and Baade) 6.5m	IMACS, MagE, FIRE	20
Lowell Discovery Telescope 4.3m*	LMI, EXPRES	14
Apache Point 3.5m*	DIS	1.5
Kitt Peak 2.1m	Gold Spectrograph	5
Swope 1m	CCD Imager	45

### ■ Funding

HST Cycle 28 COS - 2 orbits (co-I)	2020
Sigma Xi Grants-in-Aid of Research	2018
UW / NSF's IGERT Fellowship	2017 - 2019
ADAP (co-I)	2017
AAS International Travel grant	2016
HST Cycle 22 COS and STIS - 9 orbits (co-I)	2014
HST Cycle 22 COS - 6 orbits (co-I)	2014
HST Cycle 20 WFC3/UVIS SNAP - 20 orbits (co-I)	2012