

Kathryn F. Neugent

Postdoctoral researcher studying massive stars
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■ Education

University of Washington , Seattle, Washington	2017 - 2021
Ph.D. and M.S. in Astronomy Thesis: “The Binary Fraction of Red Supergiants” Advisor: Dr. Emily Levesque	
Northern Arizona University , 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	
George Washington University , Washington D. C.	2010 - 2012
M.S. in Computer Science Certificate in Cyber Security and Information Assurance	
Wellesley College , Wellesley, Massachusetts	2006 - 2010
B.A. in Computer Science and Astronomy	

■ Research Appointments

Research Associate , Lowell Observatory, Dr. Phil Massey	2009 - Present
Observations of massive stars in Local Group galaxies with Dr. Philip Massey	
Center for Astrophysics Postdoctoral Fellow , SAO	2025 – 2027
NASA Hubble Postdoctoral Fellow , Harvard University	2022 – 2025
Dunlap Postdoctoral Fellow , Dunlap Institute, University of Toronto	2021 - 2022
Astronomy Research Student , 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	
MIT / Wellesley Field Camp Participant , Lowell Observatory	2008
Characterizing the Xenix CCD to monitor Titan with Dr. Henry Roe	

■ Non-Research Appointments

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

■ Teaching & Advising

Graduate Teaching Assistant , Astronomy, University of Washington	2020
Graduate Teaching Assistant , Physics, Northern Arizona University	2015 - 2016
Undergraduate Teaching Assistant , Comp. Sci. & Astronomy, Wellesley College	2006 - 2009
Research advisor	
• Anna O’Grady, mentor for UofT graduate student	2021 - present
• Erin Aadland, NAU PhD Dissertation committee member	2022
• Tzvetelina Dimitrova, primary advisor for UW undergraduate	2019 - 2021
• Pre-MAP (Majors in Astronomy & Physics): advisor for two UW first-year undergrads	2020

■ Awards, Leadership, and Outreach

UW's Distinguished Dissertation Award recipient	2021
Skype a Scientist participant	2020 - Present
Letter to a Pre-Scientist pen pal	2020 - Present
NHFP Anti-Racism Mentor	2022 - Present
A&A, ApJ, AJ, and MNRAS referee	2017 - Present
NSF AAG panel member	2022
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

Invited Talks (6)

IAUS #361: "Massive Stars Near and Far" in Ireland	unable to attend due to COVID
GAPS 2021 – unsolved problems in red Giants And suPergiantS	2021
AAS #238: Special Session on Thorne-Żytkow Objects	2021
"The Wolf-Rayet Phenomenon in the Universe"	cancelled due to COVID
"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 α to Ω " 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

Yale University colloquium	2022
Colorado University: Boulder colloquium	2022
University of Louisville, Kentucky colloquium	2022
Ohio State University CCAPP seminar	2022
Northwestern CIERA Science Happy Hour	2022
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	20
Magellan (Clay and Baade) 6.5m	IMACS, MagE, FIRE	25
Lowell Discovery Telescope 4.3m*	LMI, EXPRES	16
Apache Point 3.5m*	DIS	1.5
Kitt Peak 2.1m	Gold Spectrograph	5
Swope 1m	CCD Imager	45

■ Funding

HST Cycle 30 STIS - 7 orbits (co-I)	2022
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