

STEVEN MOHAMMED

CURRICULUM VITAE

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RESEARCH INTERESTS

I study the formation and evolution of stars in the Milky Way's Galactic plane in ultraviolet wavelengths using the Galaxy Evolution Explorer with the Ultraviolet Galactic Plane Survey and the All-Sky Imaging Survey. In particular I am interested in red clump stars and white dwarfs and the impact they have on the Milky Way.

EDUCATION

Columbia University	2019 (<i>expected</i>)
Ph.D. Candidate, Astronomy	
Thesis Project: <i>UVGAPS: The Ultraviolet Galactic Plane Survey</i>	
Thesis Advisor: David Schiminovich	
M. Phil., Astronomy	2013 - 2016
M. A., Astronomy	2013 - 2015
Columbia University Bridge to the Ph.D. Program	
Post-baccalaureate	2011 - 2013
Research Topic: <i>Local Outliers to Neutral Hydrogen - Stellar Mass - Star Formation Scaling Relations</i>	
Advisor: David Schiminovich	
Colgate University	
B.A., Astronomy-physics,	2007-2011
Thesis Topic: <i>Observing TW Hydra's Stellar Winds with the 1.083 μm Helium I Line</i>	
Thesis Advisor: Jeffrey Bary	

PUBLICATIONS

1. **Mohammed, S.**, et al. *An Ultraviolet-Optical Color-Metallicity relation for Red Clump Stars using GALEX and Gaia*, 2018 ApJ, Accepted, arXiv:1805.03236
2. **Mohammed, S.**, et al., *UVGAPS: The Ultraviolet Galactic Plane Survey*, 2019, ApJ, in prep
3. Wang, D., **Mohammed, S.**, et al., *Self-calibrating GALEX in the Galactic Plane with the Time-tagged Photon List*, 2019 ApJ, in prep

SELECTED CONFERENCES AND SCIENTIFIC TALKS

5. **Talk:** AAS 233rd meeting, Seattle, WA Jan. 2019
4. **Poster:** NSBP Conference, Baltimore, MD Feb. 2015
3. **Talk:** AAS 221th Meeting, Long Beach, CA Jan. 2013
2. **Poster:** NSBP/NSHP Joint Conference, Austin, TX Sept. 2011
1. **Talk:** Keck Northeast Astronomy Consortium Summer 2009
Research Symposium, Middletown, CT

TEACHING EXPERIENCE

Head TA: Department of Astronomy, Columbia University	2016 - 2017
Design Team Leader: Institute for Scientist and Engineer Educators	
Professional Development Program	2017
Student Teacher: Institute for Scientist and Engineer Educators	
Professional Development Program	2016
Lab. T.A. Astronomy W1904: Astronomy Lab II	Spring 2016
Lab. T.A. Astronomy C1904: Astronomy Lab I	Fall 2015
Lab. T.A. Astronomy W1904: Astronomy Lab II	Spring 2015
Lab. T.A. Astronomy C1904: Astronomy Lab I	Fall 2014
T.A. Astronomy C1403: Earth, Moon, and Planets	Spring 2014
T.A. Astronomy C1836: Stars and Atoms	Fall 2013

SELECTED OUTREACH AND SERVICE

Outreach talk: The Ultraviolet Universe, Columbia University	Nov 2018
Astronomy Public Outreach Director, Columbia University	2018
Outreach Volunteer, bi-weekly community stargazing, Columbia University	2013 - present
Columbia University Roof Committee	2013 - present
Graduate Liason, Rooftop Variables, Columbia University	2013 - present
Galaxies Lunch Organizer, Columbia University	2015 - 2016

STUDENTS ADVISED

Sera Eviner, Columbia University	2017
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