

Andrew S. Graus

PERSONAL INFORMATION

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APPOINTMENTS

SEPTEMBER 2018 - PRESENT	Harlan J. Smith Postdoctoral Research Fellow The University of Texas at Austin
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EDUCATION

JUNE 2012 - JUNE 2018	Ph.D in Physics and Astronomy The University of California, Irvine Ph.D Advisor: James Bullock
AUGUST 2007 - MAY 2012	B.S. in Astronomy and Astrophysics The University of Michigan, Ann Arbor Graduated with High Honors

OUTREACH, TEACHING, AND VOLUNTEER WORK

September 2017 - August 2018	Representative on the Inclusive Excellence Committee Physics and Astronomy Department at The University of California, Irvine
March 2015 - August 2018	Member of the Physics Grad Caucus Physics and Astronomy Department at The University of California, Irvine
January 2014 - Present	Volunteer for the Astronomy Outreach Program at The University of California, Irvine
July - August 2012	California State Summer School for Mathematics and Science (COSMOS), Teaching Assistant
August 2012 - December 2013	Astronomy Outreach Teaching Assistant at the University of California, Irvine
May 2010 - May 2011	President of the Student Astronomical Society at The University of Michigan
May 2010 - August 2011	Volunteer for the Detroit Observatory

January 2010 - May 2012	Tutor for the Department of Astronomy and Astrophysics the University of Michigan
March 2009 - May 2012	Volunteer for the Student Astronomical Society at the University of Michigan

AWARDS AND GRANTS

June 2017	Award for Outstanding Service to the Department Physics and Astronomy Department The University of California, Irvine
June 2017	XSEDE Research request for computer time on Stampede 2 <i>*141,490 Node hours awarded.</i>
June 2012 - August 2012	Competitive Edge Scholar The University of California, Irvine

SELECTED CONFERENCES AND PRESENTATIONS

talk - Graus, A. S., Searching for Biases in Observations of Local Group Dwarf Galaxies Using Simulations. Harvard-Smithsonian Center for Astrophysics Galaxies and Cosmology Seminar. October 3rd, 2017.

talk - Graus, A. S., Searching for Biases in Observations of Local Group Dwarf Galaxies Using Simulations. Stanford Cosmology Seminar. September 25, 2017.

talk - Graus, A. S., Bullock, J. S., Boylan-Kolchin, M., & Weisz, D. R. What do we measure when we measure star formation histories. Talk given at Astronomy in the 2020s: Synergies with WFIRST. Baltimore, MD. June 26- 28, 2017.

talk - Graus, A. S., Oey, M. S., Lamb, J. B., A new subclass of B[e] supergiants in the SMC?. Talk given at The B[e] Phenomenon: Forty Years of Studies. Prague, Czech Republic. June 27- July 1, 2016.

talk - Graus, A. S., Bullock, J. S., Boylan-Kolchin, M., & Weisz, D. R. The Local Group as a Time Machine. Talk given at The 13th Potsdam Thinkshop: Near Field Cosmology. Obergurgl, Tyrol Austria. March 29- April 3, 2016.

PUBLISHED FIRST AUTHOR WORKS

Graus, A. S., Bullock, J. S., Kelley, Tyler, Boylan-Kolchin, M., Garrison-Kimmel, Shea, & Qi, Yuewen 2018, How low does it go? Too few Galactic satellites with standard reionization quenching, submitted to *MNRAS*, arXiv:1808.03654.

Graus, A. S., Bullock, J. S., Boylan-Kolchin, M., & Nierenberg, A. M. 2018, Through a

Smoother Lens: An expected absence of LCDM substructure detections from hydrodynamic and dark matter only simulations, *MNRAS*, 480, 1322.

Graus, A. S., Bullock, J. S., Boylan-Kolchin, M., & Weisz, D. R. 2016, Push it to the limit: Local Group constraints on high-redshift stellar mass functions for $M_{\star} > 10^5 M_{\odot}$, *MNRAS*, 456, 477

Graus, A. S., Lamb, J. B., & Oey, M. S. 2012, Discovery of New, Dust-poor B[e] Super-giants in the Small Magellanic Cloud, *ApJ*, 759, 10

PUBLISHED COAUTHOR WORKS

Garrison-Kimmel, S., Wetzel, A., Bullock, J. S., Hopkins, P. F., Boylan-Kolchin, M., Faucher-Giguère, C.-A., Kereš, D., Quataert, E., Sanderson, R. E., *Graus, A. S.*, Kelley, T. 2017 Not so lumpy after all: modelling the depletion of dark matter subhaloes by Milky Way-like galaxies *MNRAS*, 471, 1709

Elbert, O. D., Bullock, J. S., Kaplinghat, M., Garrison-Kimmel, S., *Graus, A. S.*, Rocha, M. 2017, A Testable Conspiracy: Simulating Baryonic Effects on Self-Interacting Dark Matter Halos, accepted to *ApJ* arXiv:1609.08626

Golden-Marx, J. B., Oey, M. S., Lamb, J. B., *Graus, A. S.*, & A. S White 2016, Classical Oe Stars in the Field of the Small Magellanic Cloud, *ApJ*, 819, 55.

Lamb, J. B., Oey, M. S., Segura-Cox, D. M., *Graus, A. S.*, Kiminki, D. C., Golden-Marx, J. B., & Parker, J. Wm. 2016, The Runaways and Isolated O-Type Star Spectroscopic Survey of the SMC (RIOTS4), *ApJ*, 817, 113

Oey, M. S., Lamb, J. B., Kushner, C. T., Pellegrini, E. W., & *Graus, A. S.* 2013, A Sample of OB Stars that Formed in the Field, *ApJ*, 768, 66

Lamb, J. B., Oey, M. S., *Graus, A. S.*, Adams, F. C., & Segura-Cox, D. M. 2013, The Initial Mass Function of Field OB Stars in the Small Magellanic Cloud, *ApJ*, 763, 101

PUBLISHED CONFERENCE PROCEEDINGS

Graus, A. S., Oey, M. S., & Lamb, J. B. 2017, The B[e] Phenomenon: Forty Years of Studies, ASP Conference Series, 508, 273.

Golden-Marx, J. B., Oey, M. S., Lamb, J. B., & *Graus, A. S.* 2014 (arXiv:1411.3185), To appear in the proceedings of 'Bright Emissaries: Be Stars as Messengers of Star Disk Physics', eds. T.A.A. Sigut & C.E. Jones, ASP Conference Series. 8 pages, 4 figures.

Lamb, J. B., Oey, M. S., *Graus, A. S.*, & Segura-Cox, D. M. 2012, The IMF of Field OB Stars in the Small Magellanic Cloud, Proceedings of a Scientific Meeting in Honor of Anthony F. J. Moffat, 465, 440.