

Andrew S. Graus

PERSONAL INFORMATION

ADDRESS: Department of Astronomy
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APPOINTMENTS

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

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| 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

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| 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 |

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| 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

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| 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.