Presentations

CONTACT INFORMATION	UC Berkeley Astronomy Department 501 Campbell Hall Berkeley, CA, 94720	E-mail: nkern@berkeley.edu $Web: astro.berkeley.edu/\sim nkern$	
EDUCATION	University of California, Berkeley Pursuing a Ph.D. in Astronomy, expected 2021	August 2015 – present	
	M.A. in Astronomy	May, 2017	
	University of Michigan, Ann Arbor B.S. in Physics and B.S. in Astronomy & Astrophysics	May 2015	
RESEARCH FOCUS	My research explores the frontiers of the distant universe of primordial hydrogen. I use these to study the formation galaxies in our universe.		
Honors & Awards	Teaching Effectiveness Award, UC Berkeley Outstanding Graduate Student Instructor Award, UC B Graduated with Highest Honors and Distinction, Univer Excellence in Astrophysics Research Award, University of Foreign Language & Area Studies (FLAS) Fellow, Univer International Institute Fellow, University of Michigan Upper-Level Writing Prize in Natural Science, University	esity of Michigan 2015 of Michigan 2015 ersity of Michigan 2014 2014 2014	
FIRST AND SECOND AUTHOR PUBLICATIONS	 Kern, N., Liu, A., Parsons, A. R., Mesinger, A., & Greig, B. (2017) Emulating Simulations of Cosmic Dawn for 21cm Power Spectrum Constraints on Cosmology, Reionization, and X-Ray Heating, Submitted to ApJ Gifford, D., Kern, N., & Miller, C. (2016) Stacking Caustic Masses from Galaxy Clusters, 		
	 ApJ 834 204 Kern, N. S., Keown, J. A., Tobin, J. J., Mead, A., & Gutermuth, R. (2016) Radio Properties of Young Stellar Objects in the Serpens South Infrared Dark Cloud, AJ 151 42 		
Additional Publications	 Miller, C. J., Stark, A., Gifford D., & Kern, N. (2016) Inferring Gravitational Potentials from Mass Densities in Cluster-Sized Halos, ApJ 822 41 		
	 Stark, A., Miller, C. J., Kern, N., Gifford, D., et al. (2016) Probing Theories of Gravity with Phase Space-Inferred Potentials of Galaxy Clusters, Phys. Rev. D 93, 084036 		
	1. Gifford, D., Miller, C. J., & Kern, N. (2013) Ap Caustic Methods for Galaxy Cluster Masses, ApJ	oJ, 773, 116: A Systematic Analysis of	
TALKS AND	Science at Low Frequencies III, Contributed Talk	December 2016	

Astronomy Lunch Talk, Contributed Talk UC Berkeley, Berkeley, CA

California Institute of Technology, Pasadena, CA

November 2016

	225th American Astronomical Society Meeting, Contributed Poster Seattle, WA	January 2015
	Astronomy Undergraduate Research Session, Contributed Poster University of Michigan, Ann Arbor, MI	April 2014
	223rd American Astronomical Society Meeting, Contributed Poster Washington, D.C.	January 2014
	Cyber Infrastructure Days, Contributed Poster University of Michigan, Ann Arbor, MI	November 2013
	REU Lunch Talk, Contributed Talk National Radio Astronomy Observatory, Charlottesville, VA	August 2013
GRANTS	Beta User, Open Science Data Cloud Computing Cluster	February 2014 - present
	Co-I, Hiltner Telescope at MDM Observatory, AZ, U.S. Measuring the Mass Dependence of Galaxy Clustering, 15 nights	November 2014
TEACHING Experience	UC Berkeley, Department of Astronomy Graduate Student Instructor	
	 Astro 7A: Introduction to Astrophysics Astro 160: Stellar Structure & Evolution 	Fall 2016 Fall 2015
	University of Michigan, Department of Physics Undergraduate Learning Assistant	
	• Physics 140: Introduction to Mechanics	Spring 2015