

## Katherine A. Kornei

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CONTACT INFORMATION	University of California, Los Angeles Physics and Astronomy Building 430 Portola Plaza, Box 951547 Los Angeles, CA 90095-1547	<i>Voice:</i> 310-254-0480 <i>Email:</i> kornei@astro.ucla.edu <i>Website:</i> www.astro.ucla.edu/~kornei
RESEARCH INTERESTS	High redshift galaxies, galactic winds, observational studies of Ly $\alpha$ emission and star formation, galaxy morphology, super star clusters	
EDUCATION	<b>University of California, Los Angeles</b> , Los Angeles, CA	
	Ph.D., Astronomy	Expected: Summer 2012
	Thesis: "Stellar Populations, Outflows, and Morphologies of High Redshift Galaxies"	
	Advisor: Alice Shapley	
	M.S., Astronomy	April 2008
	<b>Yale University</b> , New Haven, CT	
	B.S., Physics & Astronomy	May 2006
HONORS AND AWARDS	UCLA Dissertation Year Fellowship	Sept. 2011 – Sept. 2012
	UCLA Graduate Division Chancellor's Prize	Sept. 2006
	National Merit Finalist	May 2002
RESEARCH EXPERIENCE	<b>University of California, Los Angeles</b>	
	<i>Graduate Student Researcher</i>	April 2007 – present
	Optical and infrared observations of high redshift galaxies, stellar populations of super star clusters.	
	<b>Yale University</b>	
	<i>Undergraduate Researcher</i>	Aug. 2005 – May 2006
	Analysis of local galaxy merger rates using Sloan Digital Sky Survey data, with Pieter van Dokkum.	
	<b>NASA Ames Research Center</b>	
	<i>Assistant Researcher</i>	Sept. 2004 – May 2007
	With Yvonne Pendleton, analysis of dust chemistry in the Cepheus A infrared reflection nebula.	
	Observations of atmospheric changes on Io with Dale Cruikshank.	
TEACHING EXPERIENCE	<b>University of California, Los Angeles</b>	
	<i>Teaching Assistant</i>	Sept. 2006 – March 2007
	Lab course for an introductory astronomy class.	
TECHNICAL SKILLS	IDL, IRAF, various shells.	
TELESCOPE EXPERIENCE	W.M. Keck Observatory: LRIS, NIRC, NIRSPEC NASA Infrared Telescope Facility: SpeX, CSHELL Hubble Space Telescope: NICMOS, ACS	
PAPERS IN PREPARATION	<b>K. A. Kornei</b> , A. E. Shapley, C. L. Martin, A. L. Coil, J. M. Lotz, D. Schiminovich, and K. G. Noeske, "The Properties and Prevalence of Outflows at $z \sim 1$ in the Extended Groth Strip"	

C. L. Martin, A. E. Shapley, A. L. Coil, **K. A. Kornei**, A. Pancoast, and K. Bundy, “Gas Outflow and Inflow in Galaxies at  $0.7 < z < 1.4$ ”

REFEREED  
PUBLICATIONS

**K. A. Kornei**, A. E. Shapley, D. K. Erb, C. C. Steidel, N. A. Reddy, M. Pettini, and M. Bogosavljević, 2010, ApJ, 711, 693. “The Relationship Between Stellar Populations and Ly $\alpha$  Emission in Lyman Break Galaxies”

D. P. Cruikshank, J. P. Emery, **K. A. Kornei**, G. Bellucci, and E. d’Aversa, 2010, Icarus, 205, 516. “Eclipse Reappearances of Io: Time-Resolved Spectroscopy (1.9-4.2  $\mu\text{m}$ )”

K. N. Hainline, A. E. Shapley, **K. A. Kornei**, M. Pettini, E. Buckley-Geer, S. S. Allam, and D. L. Tucker, 2009, ApJ, 701, 52. “Rest Frame Optical Spectra for Three Strongly Lensed Galaxies at  $z \sim 2$ ”

**K. A. Kornei** and N. McCrady, 2009, ApJ, 697, 1180. “A Young Super Star Cluster in the Nuclear Region of NGC 253”

TALKS AND  
POSTERS

Invited Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , ETH Zurich Seminar, Zurich, Switzerland, Feb. 2012

Invited Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , UC Riverside Astronomy Talk, Riverside, CA, Jan. 2012

Invited Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , UC Santa Barbara Colloquium, Santa Barbara, CA, Dec. 2011

Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , Space Telescope Science Institute Galaxy Lunch, Baltimore, MD, Nov. 2011

Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , Harvard Seminar, Cambridge, MA, Nov. 2011

Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , Berkeley Seminar, Berkeley, CA, Oct. 2011

Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , UC Santa Cruz Flash Talk, Santa Cruz, CA, Oct. 2011

Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , Keck Science Meeting, Pasadena, CA, Sept. 2011

Poster: *Outflowing Winds in DEEP2 Galaxies at  $z = 1$* , Galaxy Formation, Durham, UK, July 2011

Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , Yale Galaxy Lunch, New Haven, CT, June 2011

Poster: *Outflowing Winds in DEEP2 Galaxies at  $z = 1$* , Center for Galaxy Evolution Conference, Irvine, CA, Mar. 2011

Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , Caltech Tea Talk, Pasadena, CA, Jan. 2011

Talk: *The Prevalence and Properties of Outflowing Winds at  $z = 1$* , American Astronomical Society

217<sup>th</sup> Meeting, Seattle, WA, Jan. 2011

Poster: *Outflowing Winds in DEEP2 Galaxies at  $z = 1$* , Massive Galaxies Over Cosmic Time III, Tucson, AZ, Nov. 2010

Poster: *Outflowing Winds in DEEP2 Galaxies at  $z = 1$* , Keck Science Meeting, Berkeley, CA, Oct. 2010

Talk: *The Relationship Between Stellar Populations and Ly $\alpha$  Emission in Lyman Break Galaxies*, American Astronomical Society 215<sup>th</sup> Meeting, Washington, DC, Jan. 2010

Poster: *The Relationship Between Stellar Populations and Ly $\alpha$  Emission in Lyman Break Galaxies*, Keck Science Meeting, Pasadena, CA, Sept. 2009

Poster: *Stellar Populations and Ly $\alpha$  Morphologies of  $z \sim 3$  Lyman Break Galaxies*, American Astronomical Society 214<sup>th</sup> Meeting, Pasadena, CA, June 2009

Poster: *The Cepheus A Region as a Probe of Dust Chemistry*, American Astronomical Society 210<sup>th</sup> Meeting, Honolulu, HI, May 2007

Poster: *Eclipse Reappearance of Io: Time-Resolved Spectroscopy (1.9 - 4.2  $\mu m$ )*, Division for Planetary Sciences Conference, Pasadena, CA, Oct. 2006