

Katherine A. Kornei

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 α emission and star formation, galaxy morphology, super star clusters	
EDUCATION	University of California, Los Angeles , Los Angeles, CA	
	Ph.D., Astronomy	Expected: August 2012
	Thesis: “Stellar Populations, Outflows, and Morphologies of High Redshift Galaxies”	
	Advisor: Alice Shapley	
	M.S., Astronomy	April 2008
	Yale University , 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	University of California, Los Angeles	
	<i>Graduate Student Researcher</i>	April 2007 – present
	Optical and infrared observations of high redshift galaxies, stellar populations of super star clusters.	
	Yale University	
	<i>Undergraduate Researcher</i>	Aug. 2005 – May 2006
	Analysis of local galaxy merger rates using Sloan Digital Sky Survey data, with Pieter van Dokkum.	
	NASA Ames Research Center	
	<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	University of California, Los Angeles	
	<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	K. A. Kornei , 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”, astro-ph/1205.0812	

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 α 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 μ 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 $z = 1$* , Texas A&M Particle, Astrophysics and Cosmology Seminar, College Station, TX, Mar. 2012

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 217th 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 $\text{Ly}\alpha$ Emission in Lyman Break Galaxies*, American Astronomical Society 215th Meeting, Washington, DC, Jan. 2010

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

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

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

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