

Kelle Cruz

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Education	Ph.D. in Physics and Astronomy, University of Pennsylvania 2004 <i>The Luminosity Function of Low-Mass Stars and Brown Dwarfs</i> Advisor: Neill Reid
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	B.A. in Physics, University of Pennsylvania 2000 Magna Cum Laude with Distinction in Physics
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Research Interests	<i>Star and planet formation through observations of brown dwarfs.</i> I investigate the fundamental physical properties of brown dwarfs and the lowest-mass stars using optical and infrared photometry and spectroscopy. My work includes the mining of large surveys and the development of databases.
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Awards & Honors	Spitzer Postdoctoral Fellowship, \$237,000 2007 NSF Astronomy and Astrophysics Postdoctoral Fellowship, \$180,000 2004 NSF Graduate Research Fellowship, \$93,000 2001 Ford Foundation Predoctoral Fellowship for Minorities (declined) 2001 American Physical Society Corporate Minority Scholar, \$5000 1998 & 1999
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Research Positions	Spitzer Postdoctoral Fellow 2007–present California Institute of Technology
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	NSF Astronomy and Astrophysics Postdoctoral Fellow 2004–2007 American Museum of Natural History
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	NSF Graduate Fellow 2001–2004 University of Pennsylvania
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	Graduate Student Researcher 2000–2001 University of Pennsylvania
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	Undergraduate Research Assistant U. of Pennsylvania, Senior Thesis, Advisor: Neill Reid 2000 <i>Near-infrared properties of M and L dwarfs</i>
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	U. of Pennsylvania., Advisor: Mark Devlin 1998–1999 <i>Millimeter observations of the Galactic plane</i>
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	U. of Pennsylvania, Advisor: David Koerner 1997–1998 <i>Infrared observations of proto-planetary disks</i>
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	The College of Wooster REU Program, Advisor: Donald Jacobs 1997 <i>Study of self-organized criticality</i>
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Major Projects	Principal Investigator, Keck 10m Telescope <i>A New Population of Young L Dwarfs.</i>	
	Principal Investigator, IRTF and Palomar Observatories <i>Near-Infrared Properties of Young L Dwarfs.</i>	
	Principal Investigator, Spitzer Cycle 1 IRS and IRAC GO program, \$95,800 <i>The Mid-Infrared Spectrophotometric Properties of a Complete Sample of the Nearest L Dwarfs.</i>	
	Principal Investigator, HST Cycle 13 NICMOS GO program, \$10,500 <i>Resolving a Binary System that Straddles the L/T Transition.</i>	
	Co-Investigator, HST Cycle 13 & 15 NICMOS GO Snapshot programs <i>A Search for Planetary-Mass Companions to the Nearest L Dwarfs.</i>	
Teaching & Advising	Research Advisor	
	Lauren McCarthy, Barnard College	2006–2008
	Mollie Van Gordon, Barnard College	2006–2007
	Sarah Schmidt, Barnard College	2005–2006
	Now astronomy graduate student at U. of Wash.	
	Adam Solomon, Bellmore JFK High School. Now at Yale U.	2004–2006
	Davidson Fellow and placed 8 th at Intel and 3 rd at Siemens-Westinghouse science competitions.	
	Ahra Joh, Johns Hopkins University	2006
	Maggie Kirkland, Princeton. Now Biology graduate student at Cornell.	2005
	Bethany Bongiorno, Barnard. Now software engineer at Apple	2004–2005
Finlay Mungall, U. Penn. Now financial analyst at Vanguard Group	2003	
Teaching Assistant		
<i>The Ups and Downs of Temperature</i> (freshman level) Assisted in curriculum development.	2002–2003	
<i>Introduction to Astrophysics</i> (sophomore/junior level)	2000 & 2001	
<i>Penn Summer Science Academy</i> Supervised high school students' physics and astronomy projects.	1998 & 1999	
Astronomy Laboratory Instructor	1996–1999	
Conducted undergraduate observing labs.		

Diversity & Outreach	Mentor , <i>Women Mentoring Women</i>	2007–present
	Mentor graduate student women in the sciences as they negotiate their academic, professional, and personal development.	
	Professional Development for Teachers , <i>Urban Advantage</i>	2006–2007
	Worked with middle-school teachers on developing and facilitating the science projects required of all New York City eighth graders.	
Professional Service	Program Coordinator , <i>Women Interested in the Study of Physics</i>	1998–2004
	I co-founded and led this organization composed of undergraduates, graduate students, and faculty. We developed a mentoring program, hosted social events, and sponsored departmental colloquia.	
	Observatory Educator	1996–1999
	Led public observing nights.	
Professional Service	<i>Hubble Space Telescope</i> Cycle 15 and 17 Review Panels	2006 & 2008
	NSF Review Panel	2005 & 2007
	Referee	
	<i>The Astronomical Journal</i> , <i>The Astrophysical Journal Letters</i> , <i>Astronomy and Astrophysics</i> , and <i>Monthly Notices of the Royal Astronomical Society</i> .	
