

# Evan Kirby

California Institute of Technology  
Department of Astronomy & Astrophysics  
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## Education

Ph.D. in Astronomy, University of California Santa Cruz **June 2009**  
Thesis: *Iron and Alpha Element Distributions in Milky Way Dwarf Satellites from Medium-Resolution Spectroscopy*  
Advisor: Puragra (Raja) Guhathakurta

M.S. in Astronomy, University of California Santa Cruz **December 2006**

B.S. in Physics, Stanford University **June 2004**  
with Honors and Distinction, concentration in Astrophysics

## Employment

**Assistant Professor** **August 2014 – present**  
California Institute of Technology

**Center for Galaxy Evolution Fellow** **August 2012 – July 2014**  
University of California Irvine

**Hubble Fellow** **August 2009 – August 2012**  
California Institute of Technology

## Research Interests

- The origin of the elements
- Chemical evolution of dwarf galaxies
- The build-up of stellar metals over cosmic time
- The oldest, most metal-poor stars in the Universe

## Awards

Center for Galaxy Evolution Fellowship **2012–2014**

Hubble Fellowship **2009–2012**

Chancellor's Dissertation Year Fellowship, UC Santa Cruz **2008–2009**

National Science Foundation Graduate Research Fellowship **2005–2008**

Whitford Prize, UC Santa Cruz **2006**  
for outstanding astronomy graduate student completing the second year

Chancellor's Fellowship, UC Santa Cruz **2004–2005**

Jeffrey A. Willick Award, Stanford University **2004**  
for outstanding graduating physics major

## Mentoring and Teaching Experience

- Co-advised the doctoral research of four graduate students
  - Luis Vargas (Yale University): “Spectroscopic Star Formation Histories of Ultra-Faint Dwarf Galaxies”
  - Danielle Berg (University of Minnesota): “Re-examining High Abundance SDSS Mass-Metallicity Outliers: High N/O, Evolved Wolf-Rayet Galaxies?”
  - Drew Newman (Caltech): “Dark Matter and the Assembly History of Massive Galaxies and Clusters”
  - Tim Morton (Caltech): “An Efficient Automated Validation Procedure for Exoplanet Transit Candidates”
- Guided the dissertations of two masters students
  - Lei Yang (Peking University)
  - Xiaoting Fu (National Astronomical Observatories of China)
- Co-directed the undergraduate research projects of 9 undergraduates (5 UCSC, Caltech, UCLA, UH Hilo, and Hartnell Community College)
- Mentored 13 high school students on 14 separate projects related to Keck/DEIMOS, Keck/ESI, Palomar/DBSP, and Lick/Hamilton spectroscopy
  - One 2010 Intel Science Search national finalist
  - One 2011 Siemens Science Competition regional finalist
  - Two 2012 Siemens Science Competition regional finalists
  - Two 2012 Siemens Science Competition semifinalists
  - Three 2013 Siemens Science Competition semifinalists
- Taught at the 2014 International Summer School on AstroComputing at the San Diego Supercomputer Center
- Served as teaching assistant for two introductory undergraduate courses at UCSC

## Selected Invited Talks

“Fifty-One Ergs,” NC State	<b>June 2015</b>
International Summer School on AstroComputing, UCSD	<b>July 2014</b>
“Small Stellar Systems in Tuscany”	<b>June 2013</b>
Keck Observatory, Evening with Astronomers public talk	<b>January 2013</b>

## Selected Science Activities

Subaru/Prime Focus Spectrograph Galactic Archaeology Science Working Group	<b>2011-</b>
Center for Galaxy Evolution Conference SOC & LOC	<b>February 2014</b>
NOAO Time Allocation Committee	<b>May 2013-October 2015</b>
Palomar Science Meeting SOC	<b>November 2012</b>
SDSS-III APOGEE, External Reviewer	<b>January 2012</b>
Caltech/Keck Time Allocation Committee	<b>2010B, 2011A, 2015A</b>
White Paper Author, Astro2010 Decadel Survey	<b>2009</b>
Referee: ApJ, ApJL, MNRAS, A&A, Polish National Science Center, Canadian TAC	