

## Elisabeth A. Mills

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CONTACT INFORMATION	Knudsen 3-145S UCLA Department of Physics & Astronomy 430 Portola Plaza, Box 95154 Los Angeles, CA 90095-1547	Voice: (310) 825-1618 Fax: (310) 206-2096 E-mail: <a href="mailto:millsb@astro.ucla.edu">millsb@astro.ucla.edu</a> WWW: <a href="http://astro.ucla.edu/~millsb">astro.ucla.edu/~millsb</a>
EDUCATION	<b>University of California, Los Angeles</b> , Los Angeles, California, USA <i>Ph.D. Track Graduate student</i> <ul style="list-style-type: none"><li>• Advisor: Prof. Mark Morris</li></ul> <b>Indiana University</b> , Bloomington, Indiana USA <i>B.S., Physics, Astronomy</i>	<b>Fall 2007- present</b>     <b>May 2007</b>
AWARDS	<ul style="list-style-type: none"><li>• NSF GK-12 Fellowship (\$30,000 + fees)</li><li>• Chancellor's Prize Graduate Summer Research Mentorship Award (\$5000)</li><li>• Honorable mention, NSF Graduate Research Fellowship</li><li>• Chancellor's Prize (\$5000)</li><li>• Honorable mention, NSF Graduate Research Fellowship</li></ul>	<b>2010-2011</b> <b>Summer 2008</b> <b>2008</b> <b>2007-2008</b> <b>2007</b>
GRANTS	<ul style="list-style-type: none"><li>• NRAO Student Observing Support Program (\$35,000)</li></ul>	<b>September 2010</b>
PUBLICATIONS	<p><b>Mills, E.A.</b>, Morris, M.R., Lang, C.C., Cotera, A., Dong, H., Wang, Q.D., Stolovy, S. <i>Properties of the Compact H II Regions G-0.02-0.07</i>. 2011, ApJ, 735:84-96</p> <p><b>Mills, E.A.</b>, Morris, M.R., Lang, C.C., Cotera, A., Dong, H., Wang, Q.D., Stolovy, S. <i>Extinction toward the Compact HII Regions G-0.02-0.07</i> 2011, PASP, 439:125-127</p> <p>Dong, H. , Wang, Q.D., Cotera, A., Stolovy, S., Morris, M.R., Mauerhan, J., <b>Mills, E.A.</b>, Schneider, G., Calzetti, D., Lang, C. <i>Hubble Space Telescope Paschen <math>\alpha</math> survey of the Galactic Centre: data reduction and products</i>. 2011, MNRAS, 417:114-135</p> <p>Stolte, A., Ghez, A.M., Morris, M.R., Do, T., Ballard, C., <b>Mills, E.A.</b>, Lu, J.R., Matthews, K. <i>L-band sources in the Arches cluster</i>. 2010, ApJ, 718:810-831</p> <p>Bally, J., Aguirre, J., Battersby, C., Bradley, E.T., Cyganowski, C., Dowell, D., Drosback, M., Dunham, M.K., Evans, N.J. II, Ginsburg, A., Glenn, J., Harvey, P., <b>Mills, E.</b>, Merello, M., Rosolowsky, E., Shirley, Y.L., Schlingman, W., Stringfellow, G., Walawender, J., Williams, J. <i>The Bolocam Galactic Plane Survey: Dust Continuum Emission in the Galactic Center Region</i>. 2010, ApJ, 721:137-163</p>	
CONFERENCE PRESENTATIONS	<p><b>Oral:</b></p> <p><b>Mills E.A.</b>, et al. <i>Tidally-stable Gas in the Galactic Center Circumnuclear Disk?</i> 220th Meeting of the American Astronomical Society, Anchorage, AK, June 2012</p> <p><b>Mills E.A.</b> and Morris, M.R. <i>Extremely Hot Ammonia in the Galactic Center</i> Star Formation Under Extreme Conditions: the Galactic Center, Besançon, France, December 2010</p>	

**Poster:**

**Mills E.A.**, et al. *Properties of G-0.02-0.07, the Sgr A East Complex of H II regions Within 10 Parsecs of the Galactic Center.*

215th Meeting of the American Astronomical Society, Washington, D.C., January 2010

**Mills, E.A.**, et al. *Extinction toward the Compact HII Regions G-0.02-0.07.*

Galactic Center Workshop, Shanghai, October 2009

**Mills, E.A.**, et al. *Characterizing Filamentary Structure in Images from an HST-NICMOS Paschen Alpha Survey of the Galactic Center.*

213th Meeting of the American Astronomical Society, Long Beach, CA, January 2009

**Mills, E.A.**, et al. *Preliminary results from an HST-NICMOS Paschen alpha survey of the Galactic center .* International Summer School on the Galactic Center, Nagoya, Japan,

September 2008

TEACHING  
EXPERIENCE

**Culver City Middle School, Culver City, CA**

**2010-2011**

As a UCLA NSF GK-12 Fellow, spent two days a week partnered with a local teacher co-teaching and enhancing the science curriculum by developing new lesson materials.

**University of California, Los Angeles, Los Angeles, CA**

**2008-2010**

- *Teaching Assistant, 'Astrophysics II: Stellar Evolution, Galaxies, and Cosmology'* **Spring 2010**
- *Teaching Assistant, 'Life in Universe'* **Summer 2009**
- *Teaching Assistant, 'Cosmology: Our Changing Concepts of the Universe'* **Spring 2009**
- *Teaching Assistant, 'Nature of Universe' lab* **Spring 2009**
- *Teaching Assistant, 'Stellar Atmospheres, Interiors, and Evolution'* **Winter 2008**

**Center for Adaptive Optics Professional Development Program**

**2007-2009**

**Workshops:**

- *Re-Thinking Science & Engineering Learning & Teaching*, Santa Cruz, CA **Nov. 30, 2007**
- *Inquiry in Science & Engineering Learning & Teaching*, Maui, HI **March 13-17, 2008**
- *Advancing Inquiry & the PDP Community*, Santa Cruz, CA **April 4, 2009**
- *Inquiry in Science & Engineering Learning & Teaching*, Maui, HI **May 8-12, 2009**

**Teaching:**

- *Po'okela program for Native Hawaiian high school students*, Maui, HI **July 2008**  
Helped develop and co-teach a week-long program of inquiry-based astronomy geared toward encouraging students to remain on Hawaii and pursue science & technical careers.
- *Akamai Internship program for Hawaiian college students*, Big Island, HI **June 2009**  
Led a team which developed and co-taught a week-long program of inquiry-based astronomy to prepare students for a 10-week long engineering internship at the Mauna Kea Observatories.

SERVICE

**UCLA Astronomy Outreach Co-Coordinator**

**2010-2011**

**UCLA Astronomy Journal Club Coordinator**

**2008-2009**