

# Karín Menéndez-Delmestre

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## Contact Information

Observatories of the Carnegie Institution of Washington (OCIW)  
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## Education

- Caltech, Astronomy *PhD* Thesis, 2008  
“The Luminous, the Massive and the Dusty:  
a Near- to Mid-IR Spectroscopic Study of Submillimeter Galaxies”,  
Andrew Blain (advisor)
- Physics *Honors B.Sc.* McGill University, Montréal, Canada, 2002  
“Long-term Stability of Double-Peaked Pulsar Profiles”,  
Victoria M. Kaspi (advisor)
- Physics *B.Sc.* U. of Puerto Rico, Río Piedras (1997-1999; transferred)

## Professional Appointments

- NSF Postdoctoral Fellow at OCIW, 2008-Present
- PhD Graduate Research Assistant at Caltech, 2003-2008
- Research Assistant, Leiden Sterrewacht, 2002-2003  
“Near-IR Imaging of Star-Forming Regions in Cen A's Dustlane”  
Dr. P. van der Werf
- Summer Research Fellow, Netherlands Foundation for Research in Astronomy (ASTRON), Dwingeloo, June-Aug. 2001  
“B1834+620 - a Double-Double Radio Galaxy”  
Dr. A. Schoemakers, Dr. K. -H. Mack
- Research Experience for Undergraduates (REU) Fellow,  
National Astronomy and Ionosphere Center (NAIC),  
Arecibo, June-Aug. 2000  
“Exploring the Jovian Magnetosphere (Radio Jove)”  
Dr. C. Pantoja
- Summer Undergraduate Research (SURF) Fellow, June-Aug. 1997  
“Laser Cooling/Trapping of Ions” NIST, Maryland  
Dr. P. Lett, Dr. W. D. Phillips

## Fellowships & Awards

- NSF Astronomy & Astrophysics Postdoctoral Fellowship, 2008-Present
- Poster prize talk, July 2007  
“Mid-IR Spectroscopy of High-z Submillimeter Galaxies”  
*Galaxy Growth in a Dark Universe*, Heidelberg, Germany
- NSF Graduate Research Fellowship, 2003-2006
- Fulbright Fellowship, 2002-2003
- Barry M. Goldwater Fellowship, 1998-2002

## Research Interests

- Galaxy formation and galaxy evolution at low and high redshifts
- Establishment of galaxy structures: bars, bulges
- Co-evolution of galaxy black hole / spheroid
- Evolution with redshift of galaxy kinematics and galaxy masses
- Tracing early galaxy cluster formation

## Languages

- Spanish (mother-tongue)
- French (fluent)
- English (fluent)
- Portuguese (moderately proficient)
- German (basics)
- Italian (basics)

## Invited & Contributed Talks

- NOAO Flash Talk, Arizona, Jan. 2009
- Contributed Talk, *When the Universe Formed Stars*, Martinique Conference, Nov. 2008
- IPAC seminar, Pasadena, Nov. 2007
- Carnegie Lunch Talk, Pasadena, Nov. 2007
- NRAO Lunch Talk, Socorro, Nov. 2007
- OIR Lunch Talk, Center for Astrophysics, Harvard, Nov. 2007
- Greater IPAC Science Symposium, Pasadena, Sept. 2007

## Major Current Projects and Collaborations

- PI: *Probing for Galaxy Overdensities in the Environments of Submillimeter Galaxies at  $z > 4$  with IMACS*, Las Campanas Observatory (2009A)
- Co-I: *Starburst or AGN Dominance in Submm-Luminous Candidate AGN*, SPITZER, GO-50183, 58.4 hrs, \$130K, PI: Dr. Kristen Coppin
- Co-I: *The Spatial Distribution of Radiation in the Complex ISM of Distant Ultraluminous Galaxies*, HST-11582, 20 orbits, \$80K, PI: Dr. A. W. Blain
- Co-I: *Spitzer Survey of Structure in Galaxies (S4G)*, SPITZER, GO-60007, 637.2 hrs, \$621K, PI: Dr. Kartik Sheth

## Observing & Data-Handling Experience

- Optical imaging:  
Keck Low Resolution Imaging Spectrograph (LRIS)  
Palomar (Large Format Camera)
- Optical spectroscopy:  
Magellan (IMACS)
- Near-infrared long-slit and integral spectroscopy:  
Keck NIRSPEC  
Keck Laser Guide Star-AO OSIRIS
- Mid-infrared spectroscopy:  
SPITZER Infrared Spectrograph (IRS)
- Radio: Owens Valley Millimeter Array (OVRO),  
Westerbork Synthesis Radio Telescope

## Teaching Experience & Services

- Caltech Astronomy Graduate Admissions Committee, 2006-2007
- Teaching assistant, Introduction to Astronomy, Caltech, 2007
- Teaching assistant, Radiative Processes (graduate course), Caltech, 2004

## Public Outreach Activities

- Invited co-speaker to graduate women discussion on the role of women in Astronomy, Steward Observatory, University of Arizona, Jan. 2009
- Co-teaching 5<sup>th</sup> graders at the Washington Accelerated Elementary School, Pasadena: “The Sun and its Nuclear Processes as a Source of Energy on Earth”, Oct. 2008
- Spanish translator for *The Great World Wide Star Count* (<http://www.starcount.org>), initiated by the *Windows on the Universe* project to engage the general public in counting stars from different locations around the world to build a global light pollution map and educate on astronomy basics, Sept. 2007
- Active recruiter of minority graduate students, Caltech Office for Minority Student Education, 2003-2008
- Student lead to the establishment of NASA’s educational astronomy program *Radio Jove* in Puerto Rico to give hands-on experience to high school and freshmen undergraduate students in radio astronomy (<http://www.geocities.com/radiojove>), June-Aug. 2000
- Led the *first* “Conference in Physics Careers”, directed to U. of Puerto Rico undergraduate students, 1998
- Organized astronomy public nights, U. of Puerto Rico, 1997-1998
- PI of successful funding proposal by the U. of Puerto Rico President’s Office for a group of students/Faculty to observe the 02/26/98 solar eclipse from Aruba, located in the path of totality, Feb. 1998
- Lead organizer of the *first* “Solar Eclipse Orientation Week”, University of Puerto Rico (UPR), Feb. 1998