

Cynthia Gómez Martín

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EDUCATION

2009 August (Expected) Ph.D., Astronomy *University of Florida* Gainesville, Fl.
Thesis: Low-Mass Stars and Brown Dwarfs in The Perseus Molecular Cloud.
Advisor: Dr. Elizabeth Lada
Ph.D. Candidacy: Nov. 2004

2003 May MS, Astronomy *University of Florida* Gainesville, Fl.
Thesis: Mid-Infrared Study of the Protostellar Binary SVS 20.
Advisors: Dr. Charles Telesco (chair) and David Ciardi (co-chair).

Aug 2001 B.S., Physics *University of South Florida* Tampa, Fl.
(*Cum Laude*)
Thesis: The Draco Dwarf Spheroidal Galaxy.

Aug 2001 B.A., Mathematics Honor Program *University of South Florida* Tampa, Fl.
(*Cum Laude*)
Thesis: Time Variability and Metal Abundances In a Sample of Quasars.
Advisors: Carol Williams (USF) and Fred Hamann (UF).

Aug 2001 B.A., Geology *University of South Florida* Tampa, Fl.
(*Cum Laude*)

EMPLOYMENT

Assistant Professor of Physics and Astronomy: University of the Virgin Islands, 2009 – present.
Taught introductory level Physics I and II to college level students, including laboratory, tutorial and lectures.

Director: Etelman Astronomical Observatory, University of the Virgin Islands, 2009 – present.

Director: SEAGEP, University of the Virgin Islands, 2009 – present.

Research Associate: Astronomy Dept., University of Florida, 2006 – summer 2008.

SEAGEP Fellow: Astronomy Dept., University of Florida, 2006 – present.

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Teaching Assistant: Astronomy Dept., University of Florida, 2005 – 2006.
Taught AST 1022L an introductory level laboratory in Astronomy.

Graduate Minority Fellow: Astronomy Dept., University of Florida, 2003 – 2004.

Translator: Ciencia@NASA 2002 – 2003.

Translated (English to Spanish) Astronomy and space related stories for Ciencia@NASA.

Teaching Assistant: Astronomy Dept., University of Florida, 2001 – 2002.

Taught AST 1022L an introductory level laboratory in Astronomy.

Teaching Assistant: Physics Dept., University of South Florida, 1997 – 2001.

Taught laboratory courses for introductory level physics courses.

Private Tutor: Private academy, 1997 – 2006.

Taught introductory level physics to high school as well as college level students.

Taught mathematics to college students.

Taught Spanish from grammar to conversation to a wide range of individuals.

Tutor Assistant: Dept. of Mathematics, Fall 2000, Tampa, Florida.

Tutored college students in the various mathematics courses offered by the department.

Summer Intern: National Optical Astronomy Observatory, 5/99 - 8/99, Tucson, AZ.

Researched the evolutionary history of the Draco Dwarf Spheroidal Galaxy.

Research Assistant: Moffitt Cancer Center & Research Institute 1/99 – 5/99.

Calibrate High-Resolution monitors used for digital medical imaging.

Research Assistant: University of South Florida 1997 – 1999.

Geology Dept.: Miscellaneous: tectonics research, compiling data, html programming.

Undergraduate Consultant: Center for Teaching Enhancement, USF 8/98.

Assisted International Teaching Assistants to improve their teaching skills.

Summer Intern: SETI Institute, Mountain View, Ca. 5/97 – 8/97.

Unix programming, remote radio telescope observer, served as ambassador for the Institute at Planetfest conference held in Pasadena to celebrate the landing on Mars.

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ADDITIONAL SKILLS

Observational Experience:

Optical Astronomy

Etelman Astronomical Observatory: Imaging with 0.5-m robotic telescope.

University of Florida's observatories: Imaging with: 8-in, 12-in, 18-in, 30-in.

Kitt Peak National Astronomy Observatory: Imaging with 0.9-m & 2.1m.

Near-Infrared

Imaging and spectroscopy: Kitt Peak National Astronomy Observatory 4-m & 2.1-m

Mid-Infrared

Imaging and spectroscopy: Gemini South: 8-m telescope .

Instrumentation: T-ReCS (Thermal-Region Camera Spectrograph), a mid-infrared imager and long-slit spectrograph built by the University of Florida for Gemini South, commissioning team member.

Remote Radio Observing

SETI Institute: Green Bank and Woodbury from Mountain View, CA.

Languages: Bilingual in Spanish and English, conversational French and understanding of Italian and Portuguese.

Computer Skills:

Operating System: Windows, UNIX/LINUX, Mac/Os and IRAF.

Language: IDL, HTML, Maple, LaTeX, and Supermongo.

Software: Mathcad, Matlab, MS Office, Canvas, Maple, SAS.

ACADEMIC ACHIEVEMENTS

Awards

Key Chapter Award presented to the USF chapter of Golden Key while I presided, Summer 2001.

University of South Florida McNair Summer Research Institute, Summer 2001.

University of Florida's Fall Campus Visitation Program, Graduate Minority Programs, Fall 2000.

Pi Mu Epsilon Mathematics National Honor Society, 2000 – present.

Golden Key International Honour Society, 1998 – present.

Sigma Pi Sigma Physics National Honor Society, 1997 – present.

Honors Convocation, 1996 - 2005.

National Dean's List, 1996 - 2005.

USF Dean's List, 1996 - 2005.

Outstanding Chapter Award given to the Society of Physics Students while I presided.

Scholarships & Fellowships

SEAGEP Dissertation Fellowship – University of Florida. 2008 – present.

SEAGEP Fellowship – University of Florida. 2006 – 2008.

Graduate Minority Fellowship - University of Florida. 2001 – 2005.

Ronald E. McNair Post-Baccalaureate Program. 2000 – 2001.

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Transfer Student Achievement Scholarship. 2000 – 2001.
USF Need Scholarship. 2000 – 2001.
Latino Scholarship Fund. 1999 – 2001.
Council of Honor Societies' Excellence in Volunteer Scholarship. 1999 – 2001.
Aboley Scholarship – Physics Dept.. 1997 – 2001.
Fred & Helen M. Tharpe Endowed Scholarship – College of Arts & Sciences. 1997 – 2001.
The USF candidate for the Barry Goldwater Scholarship. 1999 – 2000.
Society of Physics Students Leadership Scholarship. 1997 – 1998.

Grants

National Society of Black Physicists and the National Society of Hispanic Physicist Travel Grant 2009.
To attend The Physics Diversity Summit and the 2009 Joint Annual Meeting of the National Society of Black Physicists and the National Society of Hispanic Physicist. Nashville, TN.

Encuentros Blas Cabrera- Banco Santander Travel Grant 2008.
To attend the 2nd *Workshop on Using the GTC and its Day One Instruments.* Mérida, Mexico.

SEAGEP Student Conference Travel Grant 2008.
To attend *The Institute on Teaching & Mentoring – The Compact for Faculty Diversity.* Tampa, Fl.

SEAGEP Student Conference Travel Grant 2008.
To attend *How to Engineer Engineering Education..* Lewisburg, P.A.

SEAGEP Student Conference Travel Grant 2008.
To attend *The 5th Annual Preparing Future Faculty Institute.* El Paso, TX.

SEAGEP Career Shadowing Program. 2008.
To support travel to shadow a faculty member at a SEAGEP partner institution, The University of the Virgin Islands, St. Thomas. For students to learn about alternate types of faculty placements.

European Space Agency Faculty Travel Grant. 2007.
To work with collaborators in Madrid, Spain.

Beca de alojamiento de la Sociedad Española de Astronomía. 2006.
To attend the VII Reunión Científica de la SEA, Barcelona, Spain.

Graduate Student Council Travel Grant – Univ. of Florida. 2006.
To attend First Light Science with the GTC, Coral Gables, Florida.

Gran Telescopio de Canarias Travel Grant – University of Florida. 2006.
To attend First Light Science with the GTC, Coral Gables, Florida.

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SEAGEP Student Conference Travel Grant. 2006.

To attend First Light with the GTC Conference, Coral Gables, Florida.

Graduate Student Council Travel Grant. 2006.

To attend First Light with the GTC Conference, Coral Gables, Florida.

American Astronomical Society Travel Grant. 2004.

To attend “The XVI Canary Islands Winter School of Astrophysics: Extrasolar Planets”, Canary Islands, Spain.

Graduate Research Program Travel Grant – University of Florida, 2004.

To attend “The XVI Canary Islands Winter School of Astrophysics: Extrasolar Planets”, Canary Islands, Spain.

Graduate Student Council Travel Grant – Univ. of Florida. 2004.

To attend “The XVI Canary Islands Winter School of Astrophysics: Extrasolar Planets”, Canary Islands, Spain.

Dept. of Astronomy Travel Grant – Univ. of Florida. 2004.

To attend “The XVI Canary Islands Winter School of Astrophysics: Extrasolar Planets”, Canary Islands, Spain.

American Physical Society Travel Award

To attend their Centennial Meeting.

Univ. of South Florida College of Arts & Sciences Travel Award

To attend the American Physical Society's Centennial Meeting.

Florida Student Assistant Grant. 1998 – 2001.

Univ. of South Florida Degree Completion Incentive Grant, 1998 – 2001.

Univ. of South Florida Grant Program. 1996 – 2001.

Federal Pell Grant, 1995 – 2001.

Federal SEOG. 1995 – 2001.

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PUBLICATIONS

Papers

C. GómezMartín, Lada, E.A., Steinhauer, A., Levine, J.L., *Low Mass Stars and Brown Dwarfs in NGC1333*, in preparation. To be submitted to the Astrophysical Journal.

D. R. Ciardi, C. GómezMartín, *Star Formation in the Bok Globule CB54*, 2007, ApJ, 664, 377C.

D.R. Ciardi, C. M. Telesco, C. Packham, **C. Gómez Martín**, J.T. Radomski, Jim De Buizer, C.J. Phillips, D.E. Harker, *Crystalline Silicate Emission in the Protostellar Binary Serpens-SVS20*, 2005 ApJ, 629, 897C.

D. L. Ratay, A. Schairer, C. A. Garland, and **C. Gómez Martín** *Beyond the One-Hour Outreach Talk: Introducing a Reading and Writing Program into a High School Science Class*. The Astronomy Education Review, Issue 3, Volume 2, 2003.

D. Ratay, A. Schairer, C. Garland, and **C. Gómez Martín** *Beyond the One-Hour Outreach Talk: Introducing a Reading and Writing Program into a High School Science Class*. The Astronomy Education Review, Issue 1, Volume 2, 2003.

Invited Talks

C. GómezMartín, *A Progress Report on NGC1333*. Feb. 2008. UCF-UF Star Formation Days, Orlando, Fl.

C. GómezMartín, *Fellowships For All*, Feb. 2006, presented to the Graduate Astronomy Organization, Univ. of Florida, Gainesville, Fl.

C. Gómez Martín *Time Variability and Metal Abundances In a Sample of Quasars* presented during the USF McNair Summer Research Symposium. 2001, Tampa, Fl.

C. Gómez Martín *Keys to Applying for International Awards & The Chapter Yearbook* Golden Key International Honour Society International Conference 2001, Dallas, Tx.

C. Gómez Martín *Computing Methods of Statistical Analysis* presented to the Univ. of South Florida's chapters of the Mathematical Association of America, and Pi Mu Epsilon, 2001, Tampa, Fl.

C. Gómez Martín *Keys to Applying for International Awards & The Chapter Yearbook* presented to Golden Key International Honour Society during the Regional Conference, 2001, Ft. Myers, Fl.

C. Gómez Martín, P. Gallego Alvarez, J. Poonkasem, and S. Vanzie *Honor Wrap* Golden Key International Honour Society International Conference C.A.F.E. 2001, Los Angeles, Ca.

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C. Gómez Martín *The REU program at KPNO and Draco – A Case Study of Stellar Evolution* presented to the Physics Dept., the Society of Physics Students and Sigma Pi Sigma. 2000, Tampa, Fl.

C. Gómez Martín *Stellar Evolution: The Draco Dwarf Spheroidal Galaxy* presented to the Mathematics Dept., Mathematical Association of America, and Pi Mu Epsilon. Univ. of South Florida, 2000, Tampa, Fl.

C. Gómez Martín *The REU program at KPNO and Draco – A Case Study of Stellar Evolution* presented to the Physics Dept., the Society of Physics Students and Sigma Pi Sigma. 1999, Tampa, Fl.

C. Gómez Martín *Stellar Evolution: The Draco Dwarf Spheroidal Galaxy* presented to the Mathematics Dept., the Mathematical Association of America, & Pi Mu Epsilon. 1999, Tampa, Fl.

Posters

C. GómezMartín, Lada, E.A., Levine, J.L., Bayo Arán, A., Barrado y Navascués, D., Morales Calderón, M., *A Multi-wavelength Study of NGC 1333: Brown Dwarfs and Low Mass Stars*. Oct. 2007. Univ. of Florida's National Science Foundation Fellows Day. Gainesville, Fl.

C. GómezMartín, Lada, E.A., Levine, J.L., Bayo Arán, A., Barrado y Navascués, D., Morales Calderón, M., *A Multi-wavelength Study of NGC 1333: Brown Dwarfs and Low Mass Stars*. April 2007. From Stars to Planets. Gainesville, Fl.

C. GómezMartín, Lada, E.A., Steinhauer, A., Levine, J.L., *Low Mass Stars and Brown Dwarfs in NGC1333*. April 2006. 1st Annual SEAGEP Student Conference, Clemson University, Clemson, SC.

C. GómezMartín, C. M. Telesco, D. R. Ciardi, C. Packham, *Induced Star Formation within a Bok Globule? The CB54 Protostellar System*. Mar. 2005, Graduate Student Forum, Univ. of Florida, Gainesville, Fl.

C. GómezMartín, C. M. Telesco, D. R. Ciardi, C. Packham, *Induced Star Formation within a Bok Globule? The CB54 Protostellar System*. 2004, AAS, 205, 98.08, San Diego, Ca.

C. GómezMartín, C. M. Telesco, D. R. Ciardi, C. Packham, *Induced Star Formation within a Bok Globule? The CB54 Protostellar System*. 2004, The Canary Islands Winter School of Astrophysics, Canary Islands, Spain.

D.L. Ratay, A. Schaires, C. A. Garland & **C. Gómez Martín** *Instituting a Meaningful Reading & Writing Program in a High School Science Class*. AAS 2003, Seattle, Wa.

K.J. Mighell and **C. Gómez Martín** *WFPC2 Observations of the Draco Dwarf Spheroidal Galaxy*, 1999, AAS, 195.0814, Atlanta, Ga.

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CONFERENCES & SCHOOLS

Physics Diversity Summit and the 2009 Joint Annual Conference of the National Society of Black Physicists and the National Society of Hispanic Physicist. Nashville, TN., Feb. 2009.

How to Engineer Engineering Education. Lewisburg, P.A., Jul. 2008.

5th Annual Preparing Future Faculty Institute. El Paso, TX. Jun. 2008

SEAGEP Annual Conference: Gainesville, Fl. May 2008.

The Institute on Teaching & Mentoring – The Compact for Faculty Diversity: Arlington, Va, Oct. 2007.

National Science Foundation Fellows Day – Univ. of Florida: Gainesville, Fl., Oct. 2007.

From Stars to Planets – Univ. of Florida: Gainesville, Fl., Apr. 2007.

Sustainability Conference – Univ. of Florida: Gainesville, Fl., Oct. 2006.

VII Reunión Científica de la SEA: Barcelona, Spain, Sept. 2006.

First Light with the Gran Telescopio Canarias Conference: Coral Gables, Fl., June 2006.

1st Annual SEAGEP Student Conference: Clemson, SC, Apr 2006.

American Astronomical Society – 205th Meeting: San Diego, CA., Jan. 2005.

The XVI Canary Islands Winter School of Astrophysics: Extrasolar Planets, Tenerife, Canary Islands, Spain, Dec. 2004.

American Astronomical Society – 199th Meeting: Washington D.C., Jan. 2002.

Golden Key International Honour Society – International Conference: Dallas, Tx., Aug. 2001.

CHANGE 2001 – Leadership Conference – Univ. of South Florida: Tampa, Fl., Mar. 2001.

Golden Key International Honour Society – Regional Conference: Tampa, Fl., Mar. 2001.

Golden Key International Honour Society – Round Table: Orlando, Fl., Nov. 2000.

Golden Key International Honour Society & Student Activities - Leadership Conference: Tampa, Fl., Oct. 2000.

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Golden Key International Honour Society – International Conference: L.A., Ca., Aug. 2000.

Golden Key International Honour Society – Round Table: Gainesville, Fl., Nov. 2000.

Mathematics in the New Millennium - A Conference on Practical Applications of Mathematics: St. Petersburg, Fl., Apr. 2000.

Golden Key International Honour Society – Regional Conference: Atlanta, Ga, Feb. 2000.

American Astronomical Society: Atlanta, Ga., Jan. 1999.

American Physical Society – Centennial Meeting: Atlanta, Ga., Mar. 1999.

Golden Key International Honour Society – Regional Conference: Gainesville, Fl., Mar. 1999.

Planetfest – The Planetary Society: Pasadena, Ca., Aug. 1997.

PROFESSIONAL AFFILIATIONS

Graduate Council, Univ. of Florida : **The graduate student representative**, 2006 – 2007.

Graduate Student Council, Univ. of Florida : **Astronomy Dept. student representative**, 2003 – 2007,
Member, co-founder and co-chair of Committee for Positive Supervision, 2005 – present.

Graduate Astronomy Organization, Univ. of Florida: **1st & 2nd year representative**, 2001 – 2002,
Secretary, 2002 – 2005.

The Honor Society of Phi Kappa Phi: Active Member, 2000 – present.

Golden Key International Honour Society, Univ. of South Florida: **President**, 2000 – 2001,
Corresponding Secretary, 1999 – 2000.

Silver Key Honor Society, Univ. of South Florida: **President**, 2000 – 2001.

Council of Honor Societies, Univ. of South Florida: **Webmaster** 2000 – 2001.

Pi Mu Epsilon Mathematics National Honor Society: Active member, 2000 – 2005.

The USF Student Chapter of the Mathematical Association of America: **President**, 1999 – 2001.

Arts & Sciences Honor Society, Univ. of South Florida: Active member, 1999 – 2001.

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American Physical Society: Active member, 1999 – present.

American Astronomical Society: Active member, 1999 – present.

SETI Team: Charter member, 1999 – present.

Sigma Pi Sigma Physics National Honor Society: **President**, 1998 – 2000.

The Physics Club, Univ. of South Florida: **President**, 1997 – 2000.

Society of Physics Students, Univ. of South Florida: **President**, 1997 – 1998, **Secretary**, 1996 – 1997.

The Planetary Society: Active member, 1993 – present.

VOLUNTEER WORK

Habitat for Humanity: Help build homes for low-income families. Gainesville, Fl. 2008.

Reading/Writing Program: Assist high school students to develop analytical skills through the implementation of a reading/writing program in science classes at East Side H.S, Gainesville, Fl. 2002 – 2005.

University of Florida Institute of Hispanic/Latino Cultures (Embajadora): As an ambassador for The Institute, I help plan, and implement numerous cultural events during the year. Univ. of Florida, Gainesville, Fl. 2002 – 2004.

Public Nights: Occasionally volunteer on Friday nights at the Campus Teaching Observatory at the University of Florida, setting up the telescopes and assisting the public with astronomical information. Univ. of Florida, Gainesville, Fl. 2001 – present.

Astronomy Outreach: several times during the year, I assist local teachers teaching their Astronomy sections. These events normally take place over a three-day period, which culminates with an observing night where the students can look through telescopes. Univ. of Florida, Gainesville, Fl. 2001 – present.

Graduate Orientation: Assist/guide graduate students during orientation events held throughout the year with various campus institutions such as Graduate Student Council, The Institute of Hispanic/Latino Cultures, SEAGEP, Astronomy Dept. and the Graduate School. Univ. of Florida, Gainesville, Fl. 1995 – present.

Organize and participate in Physics demonstrations to educate the community about Physics. Univ. of South Florida, Tampa, Fl. 1995 – 2001.

Participate in the Urban Scholars Program organized by the Mathematics Dept. on Saturdays throughout the school year. Univ. of South Fl., Tampa, FL. 1999 – 2001.

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As a member of Golden Key and Hands on Tampa, I am involved in weekly service and community activities. Univ. of South Florida, Tampa, Fl. 1998 – 2006.

During the Fall of 1998, I was a volunteer at the Digital Medical Imaging Program at Moffitt Research Center. Univ. of South Florida, Tampa, Fl.

REFERENCES

Dr. Elizabeth Lada

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University of Florida
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University of Florida
Gainesville, FL 32611-2055, USA

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Dr. Francisco Reyes

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More references available upon request.