

# JACQUELINE FAHERTY

## Curriculum Vitae

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### **EDUCATION**

Fall 2004-Present	Stony Brook University <i>M.A. in Physics 2006 currently in Ph.D. Program</i>	Stony Brook, NY
Fall 1996-2001	University of Notre Dame <i>B.S. in Physics</i>	South Bend, IN
Summer 1998, 2000	Columbia University <i>Summer of 1998 took Calculus 3 and Calculus 4. Summer of 2000 took a Summer of Astronomy at Columbia's Western Campus Biosphere 2.</i>	New York, NY

### **WORK EXPERIENCE**

08/2004-08/2006	Stony Brook Graduate School <i>Teaching Assistant Research Assistant (Fred Walter Advisor)</i>	Stony Brook, NY
03/2002-6/2004	American Museum of Natural History <i>Coordinator Hayden Astrophysics Outreach Program Coordinator Discovering the Universe Moveable Museum Program</i>	New York, NY
03/2002—Present	American Museum of Natural History <i>Hayden Course Instructor including "Digital Universe" Pilot</i>	New York, NY
1/2002-5/2005	Amateur Astronomers of New York <i>Course Instructor</i>	New York, NY
08/1999-05/2001	Notre Dame Physics Department <i>Undergraduate Research Assistant (Grant Matthews Advisor) Astronomy Teaching Assistant</i>	Notre Dame, IN

### **RESEARCH**

08/2000-05/2001	Notre Dame Physics Department <i>Search for optical counterparts to gamma ray burst activity. Advisors: Grant Matthews, Peter Garnavich</i>	Notre Dame, IN
06/1999-07/1999	Northwestern Material Science Division <i>Maximizing the amount of Beta Double Prime found during plasma sintering. Advisor: Lynn Johnson</i>	Evanston, IL
08/2005-08/2006	Stony Brook University <i>Parallax/Proper Motion Measurement of the Neutron Star Geminga using HST Advisor: Fred Walter</i>	Stony Brook, NY
08/2006-present	American Museum of Natural History <i>Parallax/Proper Motion survey of nearby brown dwarfs Advisor: Mike Shara/Fred Walter</i>	New York, NY

### **SELECTED AWARDS**

- 2007 Peter Kahn Fellowship for travel to an International Conference (Stony Brook)
- 2007 Ford Pre Doctoral Fellowship Honorable Mention
- 2006, 2007 Semi-finalist NASA JFPF Graduate Student fellowship
- Teaching Materials Award of Distinction (for "Discovering the Universe" Teachers Manual), AMNH
- Outstanding Undergraduate Research Award, University of Notre Dame
- Northwestern REU Fellow 1999
- 2001/2002 Fulbright Grant Finalist
- New York State Regents Scholar Award, 1996
- New York State Scholar Athlete Award, 1996

### **SELECTED OUTREACH**

- 2002-2004 Coordinator and teacher for “*Discovering the Universe*” Moveable Museum. I helped write the teachers manual and then drove a 37-foot long Winnebago filled with an astronomy exhibit to NYC public schools in all five boroughs. I also attended countless community events with the Winnebago where I taught astronomy to the public as well as countless day camp and boys and girls club visits.
- 2002-2004 Coordinator for the *Hayden Astrophysics Outreach Program* where we interviewed hundreds of under-represented students in NYC and selected a cohort of 20 each year to participate in a hands-on science program held at the Museum on weekends
- 2002-2004 Professional Development Presenter for the *AMNH Department of Education Science Initiative*. Teachers from numerous NYC Middle and High Schools attended workshops on how to use the Museum as a Science resource
- 2002-Present I continue to be a *Hayden Planetarium course instructor and presenter* where I do astronomy outreach for the NYC general public.
- 2004 Presenter at the *Trendsetters Network conference*. An all girls event where female professionals speak with middle school students about their professions
- 2004 Mentor and aid to *ISI62* (an Intermediate school in Washington Heights) Robotics club (they did not win first prize but they did receive the Spirit award!)
- 2002 Presenter at the *Kids Corp Day camp in Newton NJ* where students are bused in by aid societies to have a day in the outdoors adventure
- 1996-2001 Mentor for *WIZARDS* an outreach program encouraging girls to enter the fields of Math and Science

### **CONFERENCE PROCEEDINGS**

- “The Brown Dwarf Kinematics Project (BDKP)”, Faherty, J., Cruz, K., Burgasser, A., Walter, F., Shara, M., IAU Symposium No. 248 (In Press)
- “Spectral and Kinematic Analysis of a New Population of Young Brown Dwarfs”, Cruz, K., Faherty, J., Kirkpatrick, D., Burgasser, A., AAS Meeting 210 #96.01
- “Substellar Mass Objects in the Orion OB1a and OB1b Association” Cool Stars 14: Faherty, J., Walter, F., Sherry, B.
- “The Trigonometric Parallax of Geminga: The Technique” 2006 Isolated Neutron Stars: From the Interior to the Surface. Faherty, J., Anderson, J., Walter, F.
- “On the Parallax of Geminga” 2005 Neutron Stars at the Crossroads: Walter, F., Faherty, J.
- “Discovering the Universe Moveable Museum Outreach in NYC” 2003 NASA OSS. Orangers, K., Faherty, J.

### **PUBLICATIONS**

- “The Brown Dwarf Kinematics Project Paper #1”, Faherty, J., Burgasser, A., Cruz, K., Shara, M., Walter, F., Lepine, S., 2007 (in prep)
- “The Trigonometric Parallax of Geminga”, Faherty, J., Walter, F., Anderson, J., 2007, *Astrophysics and Space Science*, 308, 225
- “A new population of Young Brown Dwarfs”, Cruz, K., Kirkpatrick, D., Burgasser, A., Looper, D., Mohatny, S., Prato, L., Faherty, J., Solomon, A., 2007 *Astro-Ph*, 02034

### **CONFERENCES OR WORKSHOPS**

2002 NASA OSS conference, 2003 Short Course on Cosmology (Univ. of Chicago), 2005 Michelson Astrometry Workshop, 2006 Michelson Interferometry Workshop, 2006 Isolated Neutron Stars Conference, 2006 Cool Stars 14 Conference, 2007 IAU Astrometry Symposium: Milli to Micro Arcsecond Astrometry, Numerous AAS conferences.

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