

# Chanda Prescod-Weinstein

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## EDUCATION

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- September 2006 to Present **UNIVERSITY OF WATERLOO & PERIMETER INSTITUTE** Waterloo, ON  
*Doctoral Candidate, Theoretical Physics, Quantum Gravity and Cosmology*
- Advised by Dr. Niayesh Afshordi and Dr. Lee Smolin
  - 2007 Gordon Bynoe Scholarship Recipient, Barbados House Canada, Inc.
  - Founding Member, Perimeter Institute Graduate Committee
  - Member, Conference Committee, National Society of Black Physicists
  - Chair, Cosmology, Gravitation and Relativity Group, National Society of Black Physicists
- August 2005 to August 2006 **UNIVERSITY OF CALIFORNIA, SANTA CRUZ** Santa Cruz, CA  
*Doctoral Candidate, Astronomy and Astrophysics*
- Advised by Professor Anthony Aguirre
  - External Vice President, Graduate Student Association
  - Member, Board of Directors, University of California Student Association
- August 2005 **UNIVERSITY OF CALIFORNIA, SANTA CRUZ** Santa Cruz, CA  
*Awarded Master of Science, Astronomy and Astrophysics, General Relativity and Cosmology*
- National Science Foundation Graduate Research Fellowship, Awardee, 2004-2007 Tenure
  - Member, Executive Committee, National Society of Black Physicists (2005 – Present)
  - Head Steward, UAW/Academic Student Employees Local 2865 (2003-04)
  - Founding Member, Graduate Student Solidarity Network (2003)
  - Dept. of Astronomy Jr. Representative, Graduate Student Association (2004-05)
- June 2003 **HARVARD COLLEGE** Cambridge, MA  
*Awarded Bachelor of Arts, Physics and Astronomy and Astrophysics*
- National Science Foundation Graduate Research Fellowship, Honorable Mention, 2003
  - Ford Foundational Predoctoral Fellowship, Honorable Mention, 2003
  - Harvard Foundation Award for Intercultural and Race Relations, 2001
  - Co-Chair, GirlsSpot: A Group for Women, 2001-02
  - Senior Thesis: A Study of the Structure of Active Galactic Nuclei (Supervisor: Dr. Martin Elvis)
  - Junior Thesis: Sodium Presence in Extrasolar Planetary Atmospheres (Supervisor: Professor Dimitar Sasselov)

## RESEARCH EXPERIENCE

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- September 2006 to Present **PERIMETER INSTITUTE** Waterloo, ON  
*Graduate Student Researcher, Supervisor: Dr. Niayesh Afshordi and Dr. Lee Smolin*
- Pursuing independent research guided by Dr. Niayesh Afshordi in the area of modified gravity
  - Engage in independent research guided by Dr. Lee Smolin in the area of quantum gravity and potential observable effects
  - Engage in research directed by Dr. Justin Khoury in the area of cosmology as part of an effort to better understand the limits of General Relativity
- September 2003 to August 2006 **UNIVERSITY OF CALIFORNIA, SANTA CRUZ** Santa Cruz, CA  
*Graduate Student Researcher, Supervisor: Professor Anthony Aguirre*
- Engage in research directed by Professor Aguirre in the areas of general relativity and black holes in extra dimensions
- 00-01, 01-02 Academic Years **HARVARD COLLEGE OBSERVATORY** Cambridge, MA  
*Undergraduate Student Researcher, Supervisor: Professor Robert Kirshner*
- Analyzing supernovae images from the Hubble Telescope

Summer 2002	<b>HARVARD UNIVERSITY, DEPARTMENT OF MATERIALS RESEARCH</b> <i>Undergraduate Student Researcher, Supervisor: Professor Lene Hau</i>	Cambridge, MA
Summer 2001	<b>UNIVERSITY OF CHICAGO, DEPARTMENT OF COMPUTATIONAL NEUROSCIENCE</b> <i>Undergraduate Student Researcher, Supervisor: Professor Philip Ulinski</i>	Chicago, IL
Summer 2000	<b>UNIVERSITY OF CHICAGO, DEPARTMENT OF PHYSICS</b> <i>Undergraduate Student Researcher, Supervisor: Professor Henry Frisch</i>	Chicago, IL

## **PUBLICATIONS**

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Disordered Locality as an Explanation for the Dark Energy, with Lee Smolin (<http://arxiv.org/abs/0903.5303>)

Energy-dependent Speeds of Light for Cosmic -Ray Observatories, with Simon DeDeo (<http://arxiv.org/abs/0811.1999>)

## **TEACHING EXPERIENCE**

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Winter 2009	<b>UNIVERSITY OF WATERLOO, DEPARTMENT OF PHYSICS</b> <i>Teaching Assistant, Physics 444: Intro to Particle Physics</i> <ul style="list-style-type: none"> <li>• Grading and evaluating student progress</li> <li>• Assisting students who need extra attention</li> </ul>	Waterloo, ON
Fall 2008	<b>UNIVERSITY OF WATERLOO, DEPARTMENT OF PHYSICS</b> <i>Teaching Assistant, Physics 701: Graduate Quantum Mechanics</i> <ul style="list-style-type: none"> <li>• Grading and evaluating student progress</li> <li>• Assisting students who need extra attention</li> </ul>	Waterloo, ON
Winter 2008	<b>UNIVERSITY OF WATERLOO, DEPARTMENT OF PHYSICS</b> <i>Teaching Assistant, Physics 441B: Advanced Electromagnetism</i> <ul style="list-style-type: none"> <li>• Grading and evaluating student progress</li> <li>• Assisting students who need extra attention</li> </ul>	Waterloo, ON
Fall 2007	<b>UNIVERSITY OF WATERLOO, DEPARTMENT OF PHYSICS</b> <i>Teaching Assistant, Physics 441A: Advanced Electromagnetism</i> <ul style="list-style-type: none"> <li>• Grading and evaluating student progress</li> <li>• Assisting students who need extra attention</li> </ul>	Waterloo, ON
Spring 2005	<b>UNIVERSITY OF CALIFORNIA, SANTA CRUZ, DEPARTMENT OF EARTH SCIENCE</b> <i>Teaching Assistant, Earth Science 80G: Planetary Discovery</i> <ul style="list-style-type: none"> <li>• Teaching two one-hour sections per week and two office hours per week</li> <li>• Individual guidance of students' final projects</li> <li>• Tracking grades and calculating final marks</li> </ul>	Santa Cruz, CA
Winter 2005 Winter/Spring 2004	<b>UNIVERSITY OF CALIFORNIA, SANTA CRUZ, DEPARTMENT OF ASTRONOMY</b> <i>Teaching Assistant, Astronomy 2, Overview of the Universe</i> <ul style="list-style-type: none"> <li>• Teaching two one hour sections per week and two office hours per week</li> <li>• Preparation and grading of homeworks and final exams</li> <li>• Guest lectures on General Relativity in the absence of the professor</li> <li>• Tracking grades and calculating final marks</li> </ul>	Santa Cruz, CA

02-03 Academic **HARVARD COLLEGE**

Cambridge, MA

Year

*Volunteer Instructor, Physics Teaching Center*

- Assisting students in introductory physics courses with assignments
- Tutoring Students in need of extra attention

### **SKILLS AND ADDITIONAL ACTIVITIES**

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- Spoken languages: English (native), Spanish (proficient), Dutch (basic)
- Computer languages: Fortran, HTML, MatLab, Mathematica, LaTeX, and Microsoft Office
- Hobbies: baking, dancing, reading fiction

**References available upon request.**