

# Carolyn N Cardamone

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## EDUCATION:

**Yale University** *PhD: Astronomy* 2004-2010 New Haven, CT  
PhD Dissertation with Dr Meg Urry on AGN.

**Wesleyan University** *MA: Astronomy* 2002-2004 Middletown, CT  
Explored Significant Coursework in Physics, GPA=3.75

**Wellesley College** *BA: Mathematics & Astronomy* 1998-2002 Wellesley, MA  
GPA: Astronomy Major = 3.88, Math Major = 3.59, Overall=3.66  
Explored significant coursework in Economics and French.

**Irondequoit High School** *NYS Regents Diploma* 1994-1996 Rochester, NY  
Pursued advanced coursework in all areas.  
National Advanced Placement Scholar with Distinction

Cornell University Summer Honor's Program for Sophomores 1997 Ithaca, NY  
Freedom and Justice in the Western Tradition: Introduction to Political Philosophy: Grade 3.91

## PUBLICATIONS:

**Cardamone, Carolyn N.**; Urry, C. Megan; Damen, Maaïke; van Dokkum, Pieter; Treister, Ezequiel; Labb, Ivo; Virani, Shanil N.; Lira, Paulina; Gawiser, Eric, *Mid-Infrared Properties and Color Selection for X-Ray-Detected Active Galactic Nuclei in the MUSYC Extended Chandra Deep Field-South* 2008, ApJ, 680, 130

Treister, E.; Virani, S.; Gawiser, E.; Urry, C. M.; Lira, P.; Francke, H.; Blanc, G. A.; **Cardamone, C. N.**; Damen, M.; Taylor, E. N.; Schawinski, K. *Optical Spectroscopy of X-ray sources in the Extended Chandra Deep Field South* eprint arXiv:0810.3917

Francke, Harold; Gawiser, Eric; Lira, Paulina; Treister, Ezequiel; Virani, Shanil; **Cardamone, Carrie**; Urry, C. M.; van Dokkum, Pieter; Quadri, Ryan, *Clustering of Intermediate-Luminosity X-Ray-Selected Active Galactic Nuclei at  $z \sim 3$*  2008, ApJ, 673, 13

**Cardamone, Carolyn N.**; Moran, Edward C.; Kay, Laura E., *"Hidden" Seyfert 2 Galaxies in the Chandra Deep Field North* 2007, AJ, 134, 1263

**Cardamone, C.**, *Chandra Emission Line Diagnostics of  $\tau$  Sco*, Proceedings of the 2001 Keck Undergraduate Symposium on Research in Astronomy, 2001

## SCIENCE TALKS:

- Mid-IR colors of AGN in the Chandra Deep Field South** 6/2007  
NERQUAM, MIT Haystacks Observatory, MA
- Multi-Wavelength Studies of AGN in MUSYC** 10/2006  
ASTRO JOY, Yale Graduate Student Conference, Yale University
- Probing the Central Regions of AGN using Gravitational Lensing** 6/2005  
Yale Astronomy Graduate Conference, Yale University
- A Lensing Study of AGN Models** 5/2005  
NERQUAM, Institute for Astrophysical Research, Boston University
- Deep Fields** 3/2003  
Research Discussions in Astronomy, Wesleyan University
- Chandra Emission Line Diagnostics of  $\tau$  Sco** 11/2001  
Keck Undergraduate Symposium on Research in Astronomy, Williams College

## POSTERS:

- Mid-infrared Properties And Color-Selection For X-ray Detected Agn** 12/2007  
American Astronomical Society, Austin, Meeting #211
- Likelihood Source Matching Applied to the extended Chandra Deep Field-South**  
5/2006  
NERQUAM, MIT, Cambridge MA
- Hidden Seyfert 2 Galaxies in the Chandra Deep Fields** 6/2004  
American Astronomical Society, Denver, Meeting #204

## SUMMER SCHOOLS:

- Penn State Astro-statistics** Penn State University, State College PA 7/2006
- 4th International X-ray Astronomy School** CfA, Cambridge MA 8/2005
- Basic Astrometric Methods** Yale University 7/2005

## RESEARCH EXPERIENCE:

- The Contribution of Seyfert 2 Galaxies to the XRB* Van Vleck Observatory, 2004  
To what extent does the local Seyfert 2 population describe the observable properties of distant hard X-ray selected Chandra Deep Field galaxies?
- Small Moons of Saturn* Whitin Observatory, 2002  
Awarded Massachusetts Space Grant. Extracted photometry of the coorbital satellites Janus and Epimetheus from photometric data collected 1996-2002 with HST. Preliminary broadband spectra and opposition curves were consistent with the moons forming from a common progenitor.
- Extra Solar Planet Search* Whitin Observatory, 2001  
Search for young brown dwarf companions in IC348. Reduced images, preformed photometry, and created catalog of STIS sources.
- Observer* Whitin Observatory, 1999-2002  
Assisted in research by operating 24 inch telescope and CCD camera. Observations of Variable Stars, Supernovae and Asteroids.
- Hot Star Winds of Tau Sco* Swathmore College, 2001  
Investigation of properties of winds of Hot Star Tau Sco. Reduction and analysis of high resolution Chandra spectra searching for non-thermal broadening in spectral lines.

## Memberships:

American Astronomical Society, Society of Physics Students, Sigma Xi

## Grants:

- Chandra CDFS Archival Proposal Chandra Science Center, 2007  
Tinsley Award Yale University, 2006  
Graduate Student Assembly Conference Travel Award Yale University, 2006

## TEACHING EXPERIENCE:

- Graduate Teaching Center Fellow* Yale University, 2008-present  
Workshop facilitator and teaching consultant. Encouraged use of traditional and innovative methods of teaching.  
Instructor: Fundamentals of Teaching in the Sciences, Fall 2008
- Teaching Fellow* Yale University, 2004-present  
Frontiers & Controversies in Astrophysics, Spring 2008  
Archeoastronomy, Spring 2007  
Planets and Stars, Fall 2005  
Galaxies and Cosmology, Spring 2005  
Introduction to Cosmology, Fall 2004  
Developed observational projects, wrote lectures, led sections, held office hours, graded problemsets and exams.
- Teaching Assistant* Wesleyan University, 2002-2004  
Modern Observational Techniques, Spring & Fall 2003  
Descriptive Astronomy, Fall 2002  
Led homework review sessions, conducted instruction in use of telescopes, graded problem sets and exams, edited instruction manual for use of telescopes.
- Night Assistant* Whittin Observatory, 1999-2002  
Assisted with use of telescopes in labs, instructed introductory students in basic sky motions and constellations, led tours of observatory, Public Outreach.
- Grader & Tutor* Wellesley College, 1999-2002  
Graded introductory courses in calculus and physics, instructed students in astronomy.
- Teaching Assistant* Center for Talented Youth, 2001  
History of Mathematics  
Learned new material, developed lectures for students with a wide variety of talents, provided individual assistance, John Hopkin's Center for Talented Youth at Mount Holyoke College.
- Other Experience*  
Security Guard: Davis Museum & Cultural Center, Wellesley MA, 1998-2000  
Customer Service Representative: Blockbuster Video, Rochester NY, 1998-9  
Nanny: 9-12 year old girls, Rochester NY, 1998-9

## Teaching Development:

- Spitz Digital Institute, Planetarium Workshop** Spitz, Inc., Chadds Ford, PA, 7/2008
- NASA Center for Astronomy Education Workshop** AAS Austin, 1/2008
- Fundamentals of Teaching in the Sciences** Yale University, fall 2007
- Cosmos in the Classroom 2007** Pomona College, 8/2007

**PUBLIC OUTREACH TALKS:**

- Probing the History of Our Universe with Super Massive Black Holes** 2/2/2006  
LFO tall, Yale University
- A Guide to the Galaxies** 5/2002  
Ruhlman Conference, Wellesley College

**Honors & Awards:**

Sigma Xi, Massachusetts Space Grant 2002, Charles Durant Award in Astronomy, Keck Grant 2001, Wellesley College first year student distinction 1999, National Merit Commended Scholar, High Honor Roll, PTA service Award, Wellesley College Book Award, Cornell Sixth Annual Essay Competition: Honorable Mention, 1997 Veterans of Foreign Wars Merit Award, National Honor Society

**Computer Software:**

IDL, IRAF, Telescope Operation Software, Starry Night.

**REFERENCES:**

Meg Urry, Chair, Physics Department; Director, Yale Center for Astronomy & Astrophysics, Yale University  
email: meg.urry@yale.edu Phone: 203-432-5997

Ed Moran, Chair, Astronomy Department, Wesleyan University  
email: ecm@astro.wesleyan.edu Phone: 860-685-3739