

Curriculum Vitae

James H Cooney

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Education

PhD, University of Florida, August 2004, Department of Physics
Dissertation – “Rotational Velocities in Large-Scale Structure”
Advisor – J.N. Fry
M.S.T., Physics Education, University of Florida, May 2001
B.A., Physics, St. Mary’s College of Maryland, May 1997

Professional Career

Fall 2005 – current – Visiting Assistant Professor, University of Central Florida
Fall 2004- Spring 2005 – Visiting Assistant Professor, St. Mary’s College of Maryland
Summer 2004, Summer 2002 – Lecturer, University of Florida
Fall 2002 – Visiting Lecturer, St. Mary’s College of Maryland
Fall 1997- Spring 2002, Teaching Assistant, University of Florida

Courses Taught

PSC 1121 – Physical Science
PHYS 103 – Basic Physics
PHY 2053, PHYS 121 – College Physics I
PHY 2054 – College Physics II
PHY 2048, PHY 2048H – General Physics I
PHY 2049 – General Physics II
PHZ 3601 – Special and General Relativity
PHYS 342 – Mechanics
PHYS 473 – Statistical Mechanics
AST 2002 – Astronomy
AST 3402 – Galaxies and Cosmology

Undergraduate Research Project Supervision:

“Patterns in the Sky: Investigating Seasonal and Diurnal Variations in the Aurora,”
Rebecca Slomski, Spring 2005.
“Anisotropies in the Cosmic Microwave Background,” Andrea Martin, Spring 2006.

“Perturbational Analysis of Density and Velocity Fluctuations in the Universe on Large Scales, including Decaying Solutions and Rotational Modes,” Jarrad Pond, 2007-2009.
-project received Burnett Honors College SMART grant award

“Properties of Dust in Galaxy Clusters,” Paul Bremner, Spring 2009.

Professional and University Service

Course Coordinator, AST 2002, Fall 2007 – present, University of Central Florida
Robinson Observatory Committee, 2006- present, Physics Department, UCF
Social Event Committee, 2008- present, Physics Department, UCF
Physics Club Faculty Advisor, St. Mary’s College of MD, 2004-2005
Tennis Club Faculty Advisor, UCF, 2006- present

Awards

Club Sponsor of the Year, given by Student Government Association, St. Mary’s College of Maryland, for sponsorship of Physics Club, 2004-2005
University of Florida Department of Physics TA of the Year Award, 1999-2000
University of Florida campus-wide Graduate Student Teaching Award, 1999-2000
GAANN Fellow, University of Florida, 1999-2001

Publications

“Rotational velocities in large scale structure”, Cooney, James H., PhD Thesis, University of Florida, Source DAI-B 65/08, p. 4065. 2004.

J.E. Colwell, J.H. Cooney, L.W. Esposito, M. Sremcevic 2009. Density waves in Cassini UVIS stellar occultations 1. The Cassini division. *Icarus*, **200**, 574-580, doi:10.1016/j.icarus.2008.12.031.