

WINDSOR ANTHONY MORGAN, JR.

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Education	1995 Ph.D. Astronomy and Astrophysics, Pennsylvania State University Thesis: “Spectra and Luminosities of X-ray-Selected Active Galactic Nuclei” (Advisor: Richard E. Griffiths)	
	1986 A.B. <i>cum laude</i> , Astronomy and Astrophysics, Harvard College	
Professional Experience	Associate Professor of Physics and Astronomy Dickinson College, Carlisle, PA	2002-present
	Director, Charles M. Kanev Planetarium Dickinson College, Carlisle, PA	2002-present
	Chair, Department of Physics and Astronomy Dickinson College, Carlisle, PA	2011-2014
	Assistant Professor of Physics and Astronomy Dickinson College, Carlisle, PA	1994-2002
	Multicultural Scholar-in-Residence Dickinson College, Carlisle, PA	1996-1998
	NASA Graduate Fellow Pennsylvania State University, University Park, PA and Space Telescope Science Institute, Baltimore, MD	1990–1993
	Graduate Research Assistant Pennsylvania State University, University Park, PA	1989–1990
	Teaching Fellow Harvard University, Cambridge, MA	1986–1987
	Computer Specialist Smithsonian Astrophysical Observatory, Cambridge, MA	1986–1987
	Telescope Director Michael Telescope, Harvard University, Cambridge, MA	1984–1986
	Research Assistant Smithsonian Astrophysical Observatory, Cambridge, MA	1984–1986

Courses Taught	Introductory Astronomy; Introductory Astrophysics; Intermediate Astrophysics (Stellar Interiors); Intermediate Astrophysics (Extragalactic Astronomy); Advanced Astrophysics
	Workshop (Introductory) Physics; Waves, Vibrations, and Optics; Mechanics; Electrodynamics; Junior Physics Seminar; Senior Research Seminar; Independent Research Projects; Meteorology
	Science and Gender; Women and Science in the United States
	First-Year Seminars: <i>Star Trek</i> : Temporal Anomaly; Time; Time and the Past, Present, and Future
Research Interests	Astronomy Education Research Women and Science Multiwavelength Properties of X-ray Binaries X-ray Emission from Active Galactic Nuclei
Professional Societies	American Astronomical Society American Association of Physics Teachers National Society of Black Physicists
Awarded Fellowships and Grants	Willoughby Fellow, Dickinson College (2014-2015). “Ever-Expanding Horizon” Mission Photography Workshop, United Methodist Archives (2015). Summer Research Grant (2009). “Jennie Taylor, Class of 1889.” NSF Research Planning Grant (1997-2000). “Optical, Infrared, and X-ray Properties of X-ray Binaries” NASA Graduate Fellowship (1990–1993) “Spectra and Luminosities of X-ray-Selected Active Galactic Nuclei” Braddock Recognition Award, Pennsylvania State University (1987–1990) Graduate School Fellowship, Pennsylvania State University (1987–1988)
Refereed Publications	Morgan, W.A., “Quadrant to Measure the Sun’s Altitude.” <i>The Physics Teacher</i> , 51(7) , 420 (2013). Morgan, W.A. and Garcia, M.R., “Position and Variability of 2A1704+241.” <i>Publications of the Astronomical Society of the Pacific</i> , 113 , 1386 (2001). Avni, Y., Worrall, D., and Morgan, W.A., “The Underlying Distribution of Optical to X-ray Spectral Index for Quasars in the Presence of Detection Thresholds.” <i>The Astrophysical Journal</i> , 454 , 673 (1995). Morgan, W.A. <i>et al.</i> “A New Mechanism for the Formation of Meteoritic Kerogen-Like Material.” <i>Science</i> , 252 , 109 (1991).
Books	Morgan, W.A., and Slater, T. “Teaching OpenStax Astronomy with Peer Instruction: Implementing Think-Pair-Share for Intellectual Engagement, CAPER (2018) (in progress).

**Other
Publications
and Talks**

Morgan, W.A., "A Way to Know What Introductory Astronomy Students are Interested In?", *The Classroom Astronomer* **11**, 26 (2012).

Morgan, W.A., "Insights Into Students' Interests by Examining Their Choices of the Astronomy Picture of the Day", *Bulletin of the American Astronomical Society*, **44**, #235.04 (2012).

Morgan, W. A., "A Simple Device to Measure the Altitude of the Sun", *Bulletin of the American Astronomical Society*, **43**, #346.08 (2011).

Morgan, W. A., "'Workshop Astronomy' at Dickinson College", *Bulletin of the American Astronomical Society*, **38**, 1074 (2007).

Boyle, R.J., Morgan, W.A., and Schrautemyer, M., "Astronomy at Dickinson College: Instrumentation, Curriculum, and Culture.", *Bulletin of the American Astronomical Society*, **37**, 1327 (2005).

Boyle, R.J. *et al.* "The Michael Britton Observatory of Dickinson College.", *Bulletin of the American Astronomical Society*, **36**, 1600 (2004).

Muyskens, J. *et al.* "Transforming the Curriculum: Reports from the Field." 89th Annual Meeting of the Association of American Colleges and Universities (2003).

Morgan, W.A. "Student Presentations of the Astronomy Picture of the Day." *Bulletin of the American Astronomical Society*, **33**, 809 (2001).

Boyle, R.J. *et al.* "New Astronomy Facilities for Dickinson College." *Bulletin of the American Astronomical Society*, **33**, 725 (2000).

Green, P.J. *Peer Instruction for Astronomy*, Prentice-Hall, (2003) (contributor).

Green, P.J. and Morgan, W.A. "Peer Instruction for Astronomy.", *Bulletin of the American Astronomical Society*, **32**, 1551 (2000).

Morgan, W.A. and Garcia, M.R. "Position and Variability of 2A 1704+241." *Bulletin of the American Astronomical Society*, **32**, 1218 (2000).

Morgan, W.A. and Garcia, M.R. "Position and Variability of 2A 1704+241." *Bulletin of the American Astronomical Society*, **30**, 1314 (1998).

Morgan, W.A. "Spectra and Luminosities of X-ray-Selected Active Galactic Nuclei," talk given at the Annual Meeting of The National Society of Black Physicists, Bowling Green, KY, March 1996.

Morgan, W.A. "Spectral Properties of X-Ray-Emitting Quasars." *Bulletin of the American Astronomical Society*, **28**, 1316 (1996).

Mathis, D.F. *et al.* "A Deep Survey of the Lynx.3A Region." *Bulletin of the American Astronomical Society*, **26**, 1428 (1994).

Morgan, W.A. "Spectra and Luminosities of X-ray-Selected Active Galactic Nuclei." *Bulletin of the American Astronomical Society*, **26**, 1412 (1994).

Morgan, W.A. *et al.* “ $L_x - L_{opt}$ Relation for Rosat AGN.” *Bulletin of the American Astronomical Society*, **24**, 1154 (1992).

Morgan, W.A. *et al.* “X-Ray Spectral Properties of Quasars.” *Bulletin of the American Astronomical Society*, **24**, 690 (1992).

Anderson, S. *et al.* “Initial Results from a Rosat Deep Survey in Lynx,” in *X-ray Emission from AGN and the Cosmic X-ray Background*, eds. W. Brinkmann and J. Trümper (1992).

Avni, Y., Worrall, D., and Morgan. W., “Analysis of Astronomical Data Containing Nondetections: Effect of Increasing the Permissible Range of the Underlying Distribution.” *Institute of Mathematical Statistics Bulletin*, **20**, 260 (1991).

Morgan, W.A. *et al.* “A New Mechanism for the Formation of Meteoritic Kerogen-Like Material.” *Meteoritics*, **26**, 374 (1991).

Morgan, W.A. *et al.* “Suggested New Origin of Meteoritic Kerogen.” *Bulletin of the American Astronomical Society*, **22**, 1324 (1990).

**Supervised
Published
Research**

Drake, J.S. “A Photometric Study of Phocaea Group Asteroid 1584 Fuji.” *Bulletin of the American Astronomical Society*, **36**, 779 (2004).

**Public
Talks
and Panels**

“The Transit of Venus and the Distance from the Earth to the Sun”, Dickinson College, June 2012.

“Where are the Women? The Gender Divide in Science”, Clarke Center, Dickinson College, March 2005.

“The Transit of Venus and the Distance from the Earth to the Sun”, Dickinson College, March 2004.

“The Position of the X-ray Source 2A1704+241”, Colloquium, Gettysburg College, February 2000.

“Out of Position? The X-ray Binary 2A1704+241”, Annual Science Dinner, Dickinson College, April 1999.

“Quasars”, Astronomical Society of Harrisburg, February 1998.

“Profiles In Excellence Role Model”, Susquehanna Middle School, February 1998.

“Other Mechanisms for Creating Hydrocarbons in Meteorites”, Clarke Center, Dickinson College, August 1996.

“Mechanisms for Creating Hydrocarbons in Meteorites”, Clarke Center, Dickinson College, August 1996.

“What Can You Do in Astronomy?”, Love of Learning Program, Davidson College, Davidson, North Carolina, July 1992.

“What is Astronomy?”, Center for Talented Youth, Johns Hopkins University, Baltimore, November 1991.

National Review Panels	National Science Foundation, Committee of Visitors, Division of Astronomical Sciences, 2014-present.	
	National Science Foundation, Graduate Research Fellowships Program (Physics and Astronomy), 2003, 2005-2010 (Chair , 2006-2010)	
	National Science Foundation, Course Curriculum and Laboratory Improvement Program, February 1999, July 2007.	
	National Aeronautics and Space Administration Minority University and College Education and Research Partnership Initiative, August 2003.	
	Ford Foundation, Predoctoral Fellowship for Minorities Program, March 2001, March 2002.	
	National Aeronautics and Space Administration, Rossi X-ray Timing Explorer Cycle-5 Proposals, September 1999.	
Dickinson Committees and Service	National Science Foundation, Instrumentation and Laboratory Improvement Program, January 1998.	
	Course Scheduler, Department of Physics and Astronomy	2002-2017
	Faculty Advisor, Astronomy Club	2015
	Chair, Department of Physics and Astronomy	2011-2014
	Science Executive Committee	2011-2014
	All-College Committee on Planning and Budget	2010-2013
	Planning and Budget 21st Century Challenges Subcommittee	2011-2012
	NSF Graduate Fellowship Faculty Representative	2008-present
	Secretary of the Faculty	2007-2008
	Planning and Budget Parental Leave Subcommittee	2006
	President's Commission for Women	2004-2008
	Search Committee, Dean of Students	2004
	Nominating Committee	2001
	All-College Committee on Academic Program (Chair , 2002-2003)	2000-2003
	Faculty Advisor, Astronomy Club	1997-2005
	President's Multicultural Commission	1996-1999
	Technology Advisory Group	1999
	All-College Committee on General Education	1996-1997
	Dean's Multicultural Working Group	1996-1997
	Dickinson College Focus Program, Instructor	1995-1997
	Science Executive Committee	1995-1997
Other Service	AAS Committee on the Status of Minorities	2003-2006
	NURO Steering Committee Vice-Chair	2003-2005
	NURO Nominating Committee	2000-2002
	Londonderry School Science Fair Judge	1995-present

Conferences Central Pennsylvania Consortium Astronomers' Conference (2015, 2009, 2003,
Organized 2000)