

CURRICULUM VITAE

Bradley M. Peterson

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Birth: 26 November 1951, Minneapolis, Minnesota
Citizenship: USA
Marital Status: Married Janet R. Cook (b. 28 July 1952),
on 19 October 1978. Four children: Evan,
Erika, Elizabeth, and Ellyn.

Education: Doctor of Philosophy in Astronomy
The University of Arizona, Tucson
31 December 1978

Bachelor of Physics with High Distinction
Institute of Technology
University of Minnesota, Minneapolis
15 June 1974

Appointments Held:

2006 November – present: Chair, Department of Astronomy, The Ohio State University

1991 October – present: Professor, Department of Astronomy, The Ohio State University

2004 October – 2006 October: Vice Chair, Department of Astronomy, The Ohio State University

1984 October – 1991 September: Associate Professor, Department of Astronomy, The Ohio State University

1989 June – 1989 August: Visiting Associate Research Astronomer, Lick Observatory, University of California, Santa Cruz

1980 October – 1984 September: Assistant Professor, Department of Astronomy, The Ohio State University

1980 July – 1980 September: Instructor, Department of Astronomy, The Ohio State University

1979 October – 1980 June: Postdoctoral Fellow, Department of Astronomy,
The Ohio State University
1979 February – 1979 September: Postdoctoral Research Associate, Department of
Physics, University of Minnesota
1979 January – 1979 June: Adjunct Postdoctoral Associate, Department of
Astronomy, University of Minnesota

Membership in Professional Societies:

American Astronomical Society — 1976 January
Astronomical Society of the Pacific — 1972 October
International Astronomical Union — 1982 August

Service Appointments: Current and Recent

Astronomical Community:

Member, James Webb Space Telescope Advisory Committee,
2009 April – present.
Chair, Scientific Organizing Committee, IAU Symposium 267,
Co-Evolution of Central Black Holes and Galaxies,
Rio de Janeiro, Brazil, 2009 August.
Member, International and Private Partnership study group, in support
of the National Research Council Astro2010 Survey Committee,
2009 April – present.
Space Telescope Institute Council (STIC), 2003 July – 2009 June.
Vice Chair, 2006 July – 2007 June.
Chair, 2007 July – 2009 June.
Board of Directors, Association of Universities for Research in
Astronomy, Inc., 2005 – 2009.
Member Representative, Association of Universities for Research in
Astronomy, Inc., 2002 – 2008.
Deputy Chair, *Spitzer Space Telescope* Cycle 6 Proposal Review, Extragalactic
Panel, and Member, Telescope Allocation Committee, 2009 March – April.
Panelist, NASA Senior Review, 2008 April.
NASA Future Forum, COSI, Columbus, Ohio
Discovery Panelist, 2008 February 21.

Service Appointments: Previous

Astronomical Community:

Board of Directors, Association of Universities for Research in
Astronomy, Inc., 1987 – 1990.
Observatories Advisory Committee, 1988 – 1990.

Personnel Policies Committee, 1989 – 1990.

Member, Scientific Organizing Committee, Georgia State University Conference on *Variability of Active Galactic Nuclei*, Atlanta, Georgia, 1990 May.

Member, NASA *International Ultraviolet Explorer* Users Committee, 1992 – 1995.

Member, *Hubble Space Telescope* Cycle 3 Proposal Review, “Quasars and Active Galaxies” Subdiscipline Panel, 1992 November.

Chair, NASA *International Ultraviolet Explorer* Peer Review, Panel F2 (Extragalactic), 1993 March.

Chair, Panel Discussion on “Coordination of Observations at Many Wavelengths”, *Frontiers of Space and Ground-Based Astronomy*, Noordwijk, The Netherlands, 1993 May.

Member, NASA Astrophysics UV/Optical Management Operations Working Group, (UVMOWG), 1993 – 1995.

Co-chair, Scientific Organizing Committee, Tenth Rutherford Appleton Laboratory Workshop on Astronomy and Astrophysics, on *Reverberation Mapping of the Broad-Line Region in Active Galactic Nuclei*, Abingdon, England, 1994 May.

Member, NASA Long-Term Space Astrophysics (LTSA) Peer Review, Cosmology and Large-Scale Structure Panel, 1994 December.

Panelist, NASA Astrophysics Advanced Mission Concepts Peer Review, UV/Optical Panel, 1995 February.

Member, NSF Special Emphasis Panel in Astronomical Sciences (Active Galaxies proposal evaluation), 1995 December.

Member, AURA Gemini Fellowship Evaluation Committee, 1996 – 1997.

Member, NSF Special Emphasis Panel in Astronomical Sciences (Academic Research and Infrastructure Program proposal evaluation), 1996 April.

Chair, Scientific Organizing Committee, IAU Colloquium 159, *Emission Lines in Active Galaxies: New Methods and Techniques*, Shanghai, People’s Republic of China, 1996 June.

Chair, *Hubble Space Telescope* Cycle 7 Proposal Review, Subdiscipline Panel AGN1 “Active Galaxies”, and Member, Telescope Allocation Committee, 1996 October – November.

Member, Scientific Organizing Committee, Wise Observatory 25th Anniversary Symposium on *Astronomical Time Series*, Tel-Aviv, Israel, 1996 December.

Member, Scientific Organizing Committee, *Ultraviolet Astrophysics Beyond the IUE Final Archive*, Sevilla, Spain, 1997 November.

Member, Science Review Panel, *Far Ultraviolet Spectroscopic Explorer (FUSE)*, 1997 July.

Chair, NASA Astrophysics Working Group (AWG), 1997 – 2000.

Scientific Advisory Committee, Large Binocular Telescope, 1997 – 2001.
Chair, Science Peer Review Panel, SEU-1 (UV/Optical) Panel, University-Class (UNEX) Explorer Competition, 1998 June.
Member, Scientific Organizing Committee, *Ultraviolet–Optical Space Astronomy Beyond HST*, Boulder, Colorado, 1998 August.
Chair, *ASCA* Proposal Review Panel, 1998 November.
Chair, *Chandra* Fellowship Selection Committee, 1999 January.
Member, NASA Structure and Evolution of the Universe Subcommittee (SEUS), 1999 – 2003.
Chair, NASA Suborbital Program Proposal Review Panel, 1999 August.
Chair, Scientific Organizing Committee, Scientific Workshop on *Probing the Physics of Active Galactic Nuclei by Multiwavelength Monitoring*, NASA Goddard Space Flight Center, Greenbelt, MD. 2000 June.
Lecturer, Advanced Lectures on the Starburst–AGN Connection, Programa de Investigacion en Astrofisica Avanzada Guillermo Haro, Instituto Nacional de Astrofisica, Optica, y Electronica, Tonantzintla, Mexico, 2000 June.
Member, *Chandra X-Ray Observatory* Cycle 2 Proposal Review Panel, and Chair, AGN Panel, 2000 August.
Member, NASA Ultraviolet Optical Detectors Working Group, 2000–2002.
Member, Space Telescope Science Institute Financial Review Committee, 2001–2003.
Member, Scientific Organizing Committee, “Future EUV–UV–Visible Space Astrophysics Missions and Instrumentation” at the *Astronomical Telescopes and Instrumentation*, SPIE Conference 4854, Waikoloa, Hawaii, 2002 August.
Member, Astronomy and Astrophysics Advisory Committee (AAAC), 2002 – 2004.
Member, Scientific Organizing Committee, “Astrotomography”, Joint Discussion 09, IAU 25th General Assembly, Sydney, Australia, 2003 July.
Member, Scientific Organizing Committee, “AGN Physics with the Sloan Digital Sky Survey”, Princeton University, Princeton, NJ, 2003 July.
Member, Scientific Organizing Committee, “AGN Variability” Crimean Astrophysical Observatory, Nauchny, Ukraine, 2004 June.
Member, Scientific Organizing Committee, “2004 Ringberg Workshop on AGN Physics”, Schloss Ringberg, Tegernsee, Germany, 2004 November.
Member, Scientific Organizing Committee, 2005 Elba Workshop on “Superunification of Active Galactic Nuclei: Black hole masses, spins and accretion rates”, Elba, Italy, 2005 May.
Chair, *Hubble Space Telescope* Cycle 15 Proposal Review, Extragalactic Panel, and Member, Telescope Allocation Committee, 2006 March.
Member, Scientific Organizing Committee, “The Central Engine of Active Galactic Nuclei”, Xi’an, China, 2006 October.

Lecturer, Marie Curie Summer School, “Active Galactic Nuclei at the Highest Angular Resolution”, Torun, Poland, 2007 August.
Lecturer, XVIII Canary Islands Winter School of Astrophysics, “The Emission Line Universe,” Instituto de Astrofísica de Canarias Tenerife, Canary Islands, Spain, 2006 November.

College and University:

Advisory Committee on Academic Computing, 1982 – 1984.
Math–Science Day Committee, 1982 – 1983.
Ad Hoc Committee on Computers and the Future of the University, 1985.
College Long-Range Planning Committee, 1987 – 1989.
College Teaching Awards Panel, 1988.
Faculty Senate of the Colleges of Arts and Sciences, 1988 – 1992.
Committee on Committees, 1989 – 1992.
College Evaluation Committee, 1989 – 1990.
College Curriculum Committee, 1990 – 1992.
College Graduate Committee, 1990 – 1992.
College Promotion and Tenure Committee, 1991 – 1992, 1998–2000, 2003–2004.
Mathematics and Statistics Panel (chair) 1998–1999.
Mathematics and Geology Panel (chair) 1999–2000.
Mathematics, Statistics, and Geology Panel (chair) 2003–2004.
Research and Graduate Council (elected office), 1990 – 1992.
Graduate Associates and Fellowship Committee, 1990 – 1992.
College Faculty Advisory Committee, 1993 – 1995; 1996 – 1998.
College Ad Hoc Committee on Lower Division Mathematics Instruction (Stith Committee), 1995 – 1996.
College Hiring and Retention Task Force (chair), 2004.
Emerging Academic Leaders Program, Participant, 2004 – 2005.
Ad Hoc Department Chair Leadership Development Committee, 2009.

Department:

Graduate Studies Committee, 1980 – 1990, 1991 – 1996.
(chair, 1984 – 1988, 1991 – 1992).
Curriculum Committee, 1990 – 1992, 1994 – 1998, 2001 – 2003.
(chair, 1990 – 1992, 1995 – 1998, 2001 – 2002).
Colloquium Committee (chair), 1980 – 1981, 2004 – 2005.
Program Review Committee, 1985 – 1987.
Telescope Allocation Committee 1990 – 1998, 1999 – 2004.
(chair, 1990 – 1998).
Perkins Telescope Steering Committee, 1994 – 1998.
LBT/MDM Observatories Steering Committee, 1998 – 1999.
LBT Committee, 1999 – 2001.

MDM Committee, 2001 – 2003.
Computer Committee, 1990 – 1992, 2001 – 2004.
(chair, 2001 – 2004).
Imaging Sciences Laboratory Committee, 1999 – 2001.
Vice Chair, 2004 – 2006.
Steering Committee, 1991 – 2006.
Space Committee, 2004 – 2006.

Doctoral Dissertations Supervised:

D. Michael Crenshaw, “An Analysis of the Broad Emission Line Profiles of Seyfert 1 Galaxies” (1985).
Kirk T. Korista, “The Nature of the Emission-Line Profile Variability and the Structure of the Line-Emitting Regions in Active Galactic Nuclei” (1990).
William F. Welsh, “An Optical Study of the Flickering, Flaring, and Oscillations in the Unusual Cataclysmic Variable AE Aquarii” (1993), supervised jointly with Dr. Keith Horne, Space Telescope Science Institute.
Patrizia Romano, “A Multiwavelength Study of Narrow-Line Seyfert 1 Galaxies” (2002).
Christopher A. Onken, “Measurement of Black Hole Masses in Active Galactic Nuclei” (2005).
Misty C. Bentz, “Black Hole Scaling Relationships: New Results from Reverberation Mapping and Hubble Space Telescope Imaging” (2007).
Kelly D. Denney, in progress (expected 2010).

Postdoctoral Researchers Supervised:

Karie A. Meyers, 1983 – 1985
Richard W. Pogge, 1989 – 1991
Joseph C. Shields, 1991 – 1993
Ignaz Wanders, 1994 – 1997
Stefan J. Collier, 1999 – 2001
Marianne Vestergaard, 2002 – 2003
Matthias Dietrich, 2004 – 2008

Undergraduate Honors Theses Supervised:

Elizabeth A. Park, “Seyfert Galaxy Catalog” (1984).
Russel J. White, “Improving Cross-Correlation Estimates of Emission-Line Region Sizes in Active Galactic Nuclei” (1993).
Sean M. Smith, “A Critical Test of Thin Accretion-Disk Models of Active Galactic Nuclei” (1995).
Karoline M. Gilbert, “Probing AGN Emission-Line Regions through Time-Series Analysis” (2002).

Charles Kuehn, “An Exploration of Systematic Effects in Measurement of Black Hole Masses by Emission-Line Reverberation” (2005).
Kyle G. Metzroth, “The Mass of the Central Black Hole in the Seyfert Galaxy NGC 4151” (2005).
Megan L. Comins, “Systematic Errors in Black Hole Mass Measurement Using Reverberation Mapping” (2008).

Grants Received: Currently Active

Principal Investigator, National Science Foundation Grant AST-0604066. “Probing the Central Engine in Active Galactic Nuclei”, 2006 July 1 – 2010 June 30 (\$361,033).
Principal Investigator, Space Telescope Science Institute Grant HST-GO-10833.01-A, “Host Galaxies of Reverberation-Mapped AGNs”, 2006 Sept 1 – 2010 August 31 (\$81,166).

Grants Received: Previous

External Awards:

National Science Foundation Grant AST-7716387, International Travel Grant to attend “Symposium on Quasars and Active Nuclei of Galaxies” in Copenhagen, Denmark, 1977 June 27 – July 2.
Principal Investigator, National Science Foundation Grant AST-8019025, “Spectroscopic Studies of Active Galaxies and Quasi-Stellar Objects”, 1981 January 1 – 1981 December 31 (\$49,000).
Principal Investigator, National Science Foundation Grant AST-8117095, “Spectroscopic Studies of Active Galaxies and Quasi-Stellar Objects”, 1982 April 1 – 1984 March 31 (\$89,300).
Principal Investigator, National Science Foundation Grant AST-8317460, “Spectroscopic Studies of Active Galaxies and Quasi-Stellar Objects”, 1984 April 1 – 1986 April 30 (\$85,400).
Principal Investigator, National Aeronautics and Space Administration Grant NAG 5-826, “Emission-Line Region Variability: Implications for Photoionization Models”, 1986 August 1 – 1988 July 31 (\$23,851).
Principal Investigator, National Science Foundation Grant AST-8702691, “Spectroscopic Observations of Active Galactic Nuclei”, 1987 August 1 – 1990 April 30 (\$68,550).
Co-Principal Investigator, National Aeronautics and Space Administration Grant NAG 5-1027, “UV Spectroscopy of Planetary Nebulae”, G.J. Ferland, PI, 1987 August 1 – 1988 July 31 (\$10,600).
Principal Investigator, National Aeronautics and Space Administration, Grant NAG 5-826, “Optical and Ultraviolet Emission-Line Variability in the Seyfert 1 Galaxy NGC 5548”, 1987 August 1 – 1988 July 31 (\$10,625).
Principal Investigator (replacing Jack A. Baldwin), National Science Foundation Grant AST-8718363, “Probes of the Broad-Line Regions of Quasi-Stellar Objects”, 1988 September 1 – 1991 February 28 (\$60,000).

Principal Investigator, American Astronomical Society Small Research Grant, “International AGN Watch: Multi-Wavelength Monitoring of the Variable Seyfert Galaxy NGC 5548”, 1989 February 2 – 1989 October 2 (\$3,000).

Principal Investigator (replacing Jack A. Baldwin), National Science Foundation Grant AST-8822009, “An Imaging Spectrometer for Long-Term Studies of Emission-Line Objects”, 1989 April 15 – 1992 April 30 (\$219,462).

Principal Investigator, National Aeronautics and Space Administration Grant NAG5-1366, “The Broad Emission Lines in the Seyfert Galaxy NGC 5548”, 1990 June 1 – 1992 May 31 (\$45,244).

Principal Investigator, National Science Foundation Grant AST-8915258, “The Structure of the Broad-Line Region in Active Galactic Nuclei”, 1990 February 15 – 1993 January 31 (\$106,000).

Principal Investigator, National Aeronautics and Space Administration Grant NAG5-1824, “International AGN Watch: Mapping the Broad-Line Region in NGC 3783”, and “International AGN Watch: Probing the Nuclear Regions of NGC 5548”, 1991 November 15 – 1995 March 31 (\$89,786).

Principal Investigator, National Science Foundation Grant AST-9112879, “An Imaging Spectrometer for Long-Term Studies of Emission-Line Objects”, 1992 April 15 – 1995 September 30 (\$225,407).

Principal Investigator, Space Telescope Science Institute Grant No. GO-3484.01-91A, “Probing the Nuclear Regions of the Seyfert Galaxy NGC 5548”, 1992 July 1 – 1996 January 31 (\$265,961).

Principal Investigator, National Science Foundation Grant AST-9117086, “The Structure of the Broad-Line Region in Active Galactic Nuclei”, 1992 August 15 – 1996 July 31 (\$127,000).

Principal Investigator, National Aeronautics and Space Administration Astrophysics Data Program Grant NAG5-2477, “The Structure of the Broad-Line Region in Well-Studied AGNs”, 1994 February 1 – 1997 July 31 (\$125,542).

Co-Principal Investigator, National Aeronautics and Space Administration Long-Term Space Astrophysics Grant NAGW-3315, “Probing the Central Regions of Active Nuclei”, G.J. Ferland, PI, 1992 November 1 – 1998 May 14 (\$689,272).

Principal Investigator, National Science Foundation Grant AST-9420080, “The Structure of the Broad-Line Region in Active Galactic Nuclei”, 1995 February 1 – 2000 January 31 (\$152,452).

Principal Investigator, National Aeronautics and Space Administration Astrophysics Data Program Grant NAG5-3497, “Reverberation Mapping of Markarian 335”, 1996 December 1 – 1999 November 30 (\$42,000).

Principal Investigator, Space Telescope Science Institute Grant GO-06721.01-95A, “Ultra-Rapid UV Continuum Variability as a Probe of AGN Physics”, 1996 August 1 – 1999 January 31 (\$60,000).

Principal Investigator, Space Telescope Science Institute, “Reverberation Mapping of a Narrow-Line Seyfert 1 Galaxy”, 1999 July 1 – 2001 June 30 (\$179,370).

US Principal Investigator, U.S. Civilian Research and Development Foundation, “Spectral Monitoring of Selected Active Galactic Nuclei”, 2000 July 1 – 2002 June 30 (\$4039).

Principal Investigator, National Aeronautics and Space Administration Long-Term Space Astrophysics Grant NAG5-8397, “Probing the Physics of Variable Active Galactic Nuclei”, 1999 May 1 – 2003 October 30 (\$248,500).

Co-Principal Investigator, Space Telescope Science Institute Grant No. HST-AR-09549.01-A “Iron Emission: A Powerful Probe of the Quasar Central Engine”, 2002 June 1 – 2005 May 31 (\$74,176).

Principal Investigator, Space Telescope Science Institute Grant No. HST-GO-09818.01-A “Reverberation Mapping of the Least Luminous Seyfert Galaxy NGC 4395”, 2004 April 1 - 2006 March 31 (\$56,542).

Principal Investigator, Space Telescope Science Institute Grant No. HST-GO-09849.01-A “AGN Black Hole Masses from Stellar Dynamics”, 2003 December 1 – 2005 November 30 (\$64,882).

US Principal Investigator, US Civilian Research and Development Foundation Grant No. UP1-2549-CR-03 “Spectral Monitoring of Selected Active Galactic Nuclei: Objects with Extreme Properties”, 2003 November 15 – 2005 November 14 (\$2801).

Principal Investigator, Space Telescope Science Institute Grant No. HST-GO-09851.01-A “Host Galaxies of Reverberation-Mapped AGNs”, 2003 August 1 – 2006 July 31 (\$76,046).

Principal Investigator, Space Telescope Science Institute Grant No. HST-GO-10516.01-A “Host Galaxies of Reverberation-Mapped AGNs”, 2004 December 1 – 2006 November 30 (\$32,360).

Principal Investigator, National Science Foundation Grant AST-020564 “Probing the Central Engine in Active Galactic Nuclei”, 2002 July 1 – 2007 June 30 (\$251,426).

Co-Principal Investigator, Space Telescope Science Institute Grant HST-GO-10792.02-A: “Quasars at Redshift $z = 6$ and Early Star Formation History”, 2006 Oct 1 – 2008 December 31 (\$93,648).

Principal Investigator, Space Telescope Science Institute Grant No. HST-AR-10691.03-A “Accuracy of Quasar Black Hole Estimates”, 2005 August 1 – 2009 July 31 (\$27,747).

Internal Awards:

Principal Investigator, Ohio State University Seed Grant Program, “The Size and Structure of the Broad-Line Region in Active Galactic Nuclei”, 1988 April 1 – 1989 September 30 (\$10,000).