CURRICULUM VITAE
PAUL J. WIITA

PERSONAL

Born February 1953 in The Bronx, New York
Married Brinda Umberkoman in 1978; we have two adult sons, Arun and Neil.

ADDRESSES

Department of Physics
The College of New Jersey
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48 Crown Rd.
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PROFESSIONAL EMPLOYMENT

Professor of Physics, The College of New Jersey: August 2010 –
Chair of Physics Department, The College of New Jersey: August 2010 – June 2016
Professor of Physics and Astronomy, Georgia State University: September 1993 – May 2010
Director of Graduate Studies in Astronomy, Georgia State University: September 1994 – December 1999
Associate Professor of Physics and Astronomy, Georgia State University: September 1989 – August 1993
Assistant Professor of Physics and Astronomy, Georgia State University: September 1986 – August 1989
Assistant Professor of Astronomy and Astrophysics, University of Pennsylvania: July 1979 – June 1986
Research Associate, Enrico Fermi Institute, University of Chicago: September 1976 – June 1977, and September 1978 – June 1979
NSF–NATO Postdoctoral Fellow, Institute of Astronomy, Cambridge University: July 1977 – August 1978

EDUCATION

Ph.D. in Physics, Princeton University, December 1976
Thesis Title: "Models of Extragalactic Double Radio Sources"
Thesis Advisor: Prof. William H. Press
M.A. in Physics, Princeton University, May 1974
B.S. in Physics, Summa cum laude, The Cooper Union, New York, June 1972

PROFESSIONAL AND HONORARY SOCIETY MEMBERSHIPS

International Astronomical Union
Royal Astronomical Society
American Astronomical Society
Sigma Pi Sigma
Sigma Xi
American Physical Society
Astronomical Society of India
Council on Undergraduate Research
Phi Beta Delta

GRADUATE STUDENTS SUPERVISED AT GEORGIA STATE AND PENN*

M. Javad Siah*: Ph.D., May 1984
Joshua J. Mitteldorf*: Ph.D., August 1987
R. Alexander Rosen: Ph.D., December 1989
Arun V. Mangalam: Ph.D., December 1994
Jagbir S. Hooda: Ph.D., August 1997
Paramita Barai: Ph.D., August 2006
Navarun Gupta: M.S., June 1992
Xiong Ying: M.S., May 1996
James Marie: M.S., May 1998
A. Benjamin Hocking: M.S., May 2000
M. Angela Osterman: M.S., May 2003
Eunwoo Choi: Ph.D., May 2007

EXTERNAL RESEARCH SUPPORT

- National Science Foundation Grant AST-8211065, "Theoretical Extragalactic Astrophysics" (Sole Principal Investigator), 3/83–8/85, $26,500.
- Smithsonian Institution Foreign Currency Grant, "Nuclear, Elementary Particle and Relativistic Physics Applications in Astrophysics" (Co-Principal Investigator with D.N. Schramm of University of Chicago), 3/85–2/88, Indian rupee equivalent of $63,000.
- .National Center for Supercomputing Applications Grant, AST890028N, and renewals Radio Jet Propagation Across an Interface", (Sole PI), 7/87–6/93, 300 Service Units
- National Science Foundation Grant, AST-8717912, "Models of Extragalactic Jets", (Sole PI), 7/88–12/90, $55,000.
- Smithsonian Institution Foreign Currency Grant, FR 10263600, "Astrophysical Investigations of Radio Jet Propagation, Active Galactic Nuclei and Rotating Stars", (Sole PI), 1/91–8/94; Indian rupee equivalent of $20,740.
- National Science Foundation Grant, AST-9102106, "Numerical and Analytical Studies of Radio Galaxies and Active Galactic Nuclei", (Sole PI), 8/91–1/95, $156,000.
- Pittsburgh Supercomputer Center Grant, AST930007P, "Radio Jet Propagation Across an Interface", (Sole PI), 3/93–7/94, 121 Service Units
- Pittsburgh Supercomputer Center Grant, AST930007P, "Radio Jet Propagation Across an Interface", (Sole PI), 7/94–7/95, 200 C90 Service Units
- Pittsburgh Supercomputer Center Grant, AST930007P, "Radio Jet Propagation Across an Interface", (Sole PI), 7/95–7/96, 315 C90 Service Units
- Pittsburgh Supercomputer Center Grant, AST930007P, "Radio Jet Propagation Across an Interface", (Sole PI), 7/96–7/98, 720 C90 Service Units
- San Diego Supercomputing Center Grant, "Radio Jet Propagation Across Interfaces", (Sole PI), 4/98–3/99, 415 T90 Service Units
- NASA Astrophysical Theory Program Grant, NAG 5-3098, "Intraday Variability in Active Galactic Nuclei", (Sole PI), 10/95–4/99, $197,100
- San Diego Supercomputing Center Grant, "Radio Jet Propagation Across Interfaces", (Sole PI), 4/99–6/00, 500 T92 Service Units
- NPACI Supercomputing Grant, "Radio Jet Propagation Across an Interface" (Sole PI), 7/00– 6/01, 500 T90 Service Units
- NASA/Hubble Space Telescope, GO-09440.01, Cycle 11 award, "UV Spectrum of the Massive X-ray Binary LS 5039", (Co-I, D.R. Gies, PI), 12/02-11/04, 3 full orbits; $41,439
- NASA/Hubble Space Telescope, GO-9840, Cycle 12 award, "Wind Accretion and State Transitions in the Black Hole Binary Cyg X-1", (Co-I, D.R. Gies, PI), 10/03-9/05, 3 full orbits; $33,435

- National Science Foundation Grant, AST-0507529, “Interpretation of Modern Radio Surveys: Test of the Unification Paradigm”, (GSU PI with Z. Ivezic, University of Washington, PI), 9/05–8/10, $299,111; GSU portion $89,775
- NASA Kepler GO Grant, 09-KEPLER09-0018, “Understanding Blazar Variability through Kepler”, (TCNJ Co-I, with A. Wehrle, Space Science Institute, PI), 1/11–1/12, $77,733; TCNJ portion $15,457
- NASA EPOESS Grant, 10-EPOESS10-007, “Fertilizing ROSES through the STEM: Interdisciplinary Modules as Pre-Service Research Experiences for Secondary STEM Educators (IMPRESS-Ed)”, (Co-I; M. Kavic, TCNJ/LIU, PI), 6/11–5/14, $161,896
- NASA Kepler GO Grant, 10-KEPLER09-0018, “Understanding Blazar Variability through Kepler, Part 2”, (TCNJ Co-I, with A. Wehrle, Space Science Institute, PI), 1/12–1/13, $77,530 requested and $71,300 awarded; TCNJ portion $12,366
- NASA Fermi GI Grant, Cycle 8, NNX15AU87G, “Optical Time Variability of OJ 287, 3C 446 and Other Fermi Blazars” (TCNJ PI, with A. Wehrle, Space Science Institute, PI), 10/15-9/16, $60,000 requested and awarded; TCNJ portion $4,000
- NASA Kepler K2, GI Grant, Cycle 1, NNX15AV72G, “Measuring the Light Curves of the Binary Black Hole Candidate OJ 287 and Other Fermi Blazars”, (TCNJ PI, with A. Wehrle, Space Science Institute, PI), 8/15-8/16, $60,000 requested, $30,000 awarded; TCNJ portion reduced to $0
- NASA Kepler K2, GI Grant, Cycle 3, NNX16AI61G, “Characterizing the Optical Emission from 3C 273 and Other Quasars” (TCNJ PI, with A. Wehrle, Space Science Institute, PI), 1/17-12/17, $30,000 requested and awarded; TCNJ portion $5,000
- NSF, Robert Noyce Scholarships and Stipends Award, “Physics Teacher Education at the College of New Jersey”, (Co-I, with N. Magee, TCNJ, PI), 9/16-8/21, $1,200,000 requested and awarded.

OTHER AWARDS AND HONORS

- New York State Regents’ Scholarship; 1969–1972
- NSF Pre-doctoral Fellowship; 1972–1975
- Elected Compton Lecturer by the Faculty of the Enrico Fermi Institute, University of Chicago; Spring, 1977
- Smithsonian Institution Foreign Currency Research Travel Grant, TIFR and Physical Research Laboratory, India, and Department of Astrophysics, University of Oxford, England; May–August 1982
- Georgia State University Research Grant, #88-041 “The Formation, Collimation and Propagation of Extragalactic Radio Jets”, PI, 9/86—6/88, $7,900
- Outstanding Faculty Award, College of Arts & Sciences, Georgia State University; 1990–1991 Academic Year
- Georgia State University Chancellor’s Initiative Fund Grants, “Program In Extragalactic Astronomy”, (Co PI with H.R. Miller) 1993—1997, $112,000
- Council on Science and Technology Lecturer, Princeton University; Fall 2000
- Georgia State University Research Program Enhancement Grants, “Program In Extragalactic Astronomy”, (Co PI with H.R. Miller) 1994—2005, $288,000
- Member, School of Natural Sciences, Institute for Advanced Study, Princeton; 2008-2009 academic year sabbatical

STUDENT RESEARCH SUPERVISED AT THE COLLEGE OF NEW JERSEY

- Noelle Gotthardt: "Computational Multi-Dimensional Hydrodynamics", PHY 393, F 2010
- Robert Sobczak*: "Properties of X-shaped Radio Galaxies", PHY 393, F 2010 & S 2011
- Julian Starr*: "Modeling X-shaped Radio Galaxies", PHY 393, F 2010, S 2011 & F 2011
- Justin Rosales: "Toward Modeling Turbulence in Relativistic Jets", PHY 493, S 2011
- Dan Silano#*: "Understanding Blazar Variability through Kepler", NASA (Kepler) funded student, Su 2011; "Modeling of Turbulence in Relativistic Flows", PHY 493, S 2012
- Tom O'Dell: "Characterizing Star Formation Regions using Hubble and GALEX Images", NASA (IMPRESS-ED) funded student, Su 2011
- Paolo DiLorenzo*#: "Understanding Blazar Variability through Kepler", PHY 393, F 2011 & S 2012; NASA (Kepler) funded, Su 2012
- Joseph Benigno: "Rebuilding Radio JOVE: Measurements of the Sun and Jupiter", PHY 393, F 2011; "Measurements and Models of Water Jet Flows", PHY 493, S 2014
- Joanna Papadopoulos: "Observations of the Sun and Jupiter with Radio Jove", PHY 393, S 2012; "Measurements of Instabilities in Fluid Flows", PHY 493, F 2012; volunteer research, F 2013
- Ryan Mannheimer: "Establishment of a PIV System for Fluid Flows", volunteer research, S 2012
- Daniel Sprague#: "Analysis of Fluid Flows and Instabilities", volunteer research, S 2012; "Understanding Blazar Variability through Kepler", Su 2012; PHY 393, F 2012
- Walter Ingram, "The Cosmological Evolution of the Fraction of Active Galaxies", NASA (IMPRESS-ED) funded student, Su 2012
- Mitchell Revalski*#: "Understanding Blazar Variability through Kepler", MUSE student, Su 2012 and Su 2013; PHY 393, F 2012; PHY 493, F 2013
- Dawid Nowak*#: "Understanding Blazar Variability through Kepler", MUSE student, Su 2013; PHY 393, F 2013
- Nicholas Erickson: "Measurements of Instabilities in Fluid Flows", PHY 393, S 2013
- Matthew Kanoc: "Computational Modeling of Fluid Jet Flow", PHY 493, S 2013
- Anna Banik, "Cosmological Variations in the Activity of Galaxies", NASA (IMPRESS-ED) funded student, Su 2013
- Victoria Calafut+#: "Turbulent Flows in Relativistic Jets in Active Galactic Nuclei", PHY 393, S 2013, S 2014; PHY 493, F 2013
- Maxwell Pollack+#: "Using Athena to Model Relativistic Fluid Flows", PHY 393, F 2013; "Modeling Variability in Turbulent Relativistic Jet Flows", MUSE student, Su 2014; PHY 493, F 2014
- Michael McLoughlin: "Accretion Disk Instability Induced Variations", PHY 493, F 2013
- David Pauls+#: "Hydrodynamic Jet Instabilities", MUSE, Su 2014; PHY 393, F 2014, S 2015
- Kristen Clyne: "Air Jets in Water: Analogies to Relativistic Jets", PHY 393, S 2015
- Shreyas Shirodkar: "Measuring Colliding Air and Water Jets", PHY 393, F 2015; PHY 493, S 2016
- Timothy Osborn: "Modeling Colliding Air and Water Jets as Analogues to Bending Radio Jets", PHY 393, F 2015; PHY 493, S 2016

#Co-author on refereed journal article; *Presented at American Astronomical Society meeting; + Presented at American Physical Society Meeting

REFEREEING, REVIEWING AND EDITING

- Reviewed over 140 papers for The Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Astronomy and Astrophysics, Nature, Physical Review Letters, Astronomical Journal, Journal of Astrophysics and Astronomy, and various other journals.
- Reviewed over 150 grant proposals for NSF (Astronomy, Theoretical Physics, and International Divisions) and over 200 proposals for NASA (UV/Visible Research & Analysis, Astrophysical Data Processing, Astro-2 Mission, Astrophysics Theory, Hubble Fellow, RXTE, NASA Fellow, Swift). Proposals to the Research Corporation, The Third World Academy of Sciences, the Civilian Research and Development Foundation (for the FSU), the Netherlands National Science Foundation, the Czech National Science Foundation, the Georgian National Science Foundation and the Abdus Salam International Centre for Theoretical Physics have also been reviewed.
- Served as external reader for twelve Ph.D. dissertations from other universities.
- Served as external reviewer for promotion for ten cases at other universities.
- Scientific Editor for the Journal of Astrophysics and Astronomy: 2010—2015
- Member, Editorial Board, Current Science: January 2015—

CONCURRENT PROFESSIONAL POSITIONS

- Lecturer, Adler Planetarium, Chicago; January–March 1977
- Visiting Fellow, Copernicus Astronomical Center, Warsaw, Poland; September–November 1978
- Visiting Fellow, Tata Institute of Fundamental Research (TIFR), Bombay & Bangalore, India; June–August 1981, July–August 1985
- Visiting Fellow, Raman Research Institute, Bangalore; June–August 1982
- Visiting Professor, TIFR, Bombay, Bangalore, & Pune and Indian Institute of Science, Bangalore; July–August 1986, June–August 1987, June–August 1989
- Member, Institute for Theoretical Physics, University of California, Santa Barbara; September–December 1988
- Visiting Professor, TIFR, Pune & Bombay; July–August 1990, July–August 1991, July–August 1992, July–August 1994, December 1995, December 1997, May–June 1999, June 2001, July 2004, July–August 2005, June–July 2007, March 2009, August 2010, August 2011, August 2013
- Visiting Professor, Indian Institute of Astrophysics, Bangalore; July 1991, June–July 1993, July 1994, December 1995, December 1997, June 1999, July 2001, June 2004, February 2009, July 2010, August 2011, August 2013
- Faculty Fellow, Mathey College, Princeton University, September 2000–January 2001
- Visiting Professor, Department of Astrophysical Sciences, Princeton University, September 2000–June 2001
- Affiliated Faculty, Department of Astrophysical Sciences, Princeton University, July 2001 – June 2008
- Visitor, Institute for Advanced Study, Princeton, August–September 2007
- Adjunct Professor, School of Physics, Georgia Institute of Technology, January 2008 – July 2010
- Member, Institute for Advanced Study, Princeton, September 2008 – July 2009
- Visitor, Kavli Instittute for Particle Astrophysics & Cosmology, Stanford U., July 2016-

TEACHING

At The College of New Jersey

- Physics 099: Orientation to Physics: F13, F14
- Physics 161: Introduction to Astronomy: F15
- Physics 201: General Physics I: S11
- Physics 299: Fundamentals of Research Seminar: S12, S15, S16
- Physics 306: Mathematical Physics: F14
- Physics 371/361: Galactic and Extragalactic Astronomy: F12
- Physics 391: Independent Study (Classical Mechanics): F13
- Physics 393: Independent Research I: F10, S11, F11, S12, F12, S13, F13, S14, F14, S15, F15
- Physics 399: Physics Research Internship: F13
- Physics 401: Classical Mechanics: F10, S12, S13, S14, S15, S16
- Physics 466: Astrophysics: S15
- Physics 493: Independent Research II: S11, S12, F12, S13, F13, S14, F14, S15, S16
- First Seminar Program 114-Honors: Conceptions of the Cosmos, F13

At Georgia State University

- Astronomy 101/1010: introductory solar system astronomy: W87, W88, W89, F90, F91, F92, W93, F93, F95, F96$_*$, S99, F02, S03, F03, S05, F09, S10
- Astronomy 102/1020: introductory stellar and extragalactic astronomy: S87, F87, S89, F89, W90, S90, S91$_*$, S92, S93, S95, S97, F97, F99, S00, F01, F02, F05, S06, F06, S08, F09
- Astronomy 352: intermediate galactic and extragalactic astronomy, S91 (co-taught)
- Astronomy 3010: topics in astronomy and astrophysics, S03 Astronomy 4000/6000: upper level introduction to astrophysics: F90, F94
- Astronomy 4010: astronomy methods laboratory: S87, F89, W92, F93, F95, F97, F98, S02, S04, S06, S08 (co-taught)
- Astronomy 6300: astronomy pedagogy: F98, F99
- Astronomy 6310: laboratory practicum: S99, F99, S00
- Astronomy 810: stellar interiors: F86, W91, W94, W96, W98
- Astronomy 815: stellar evolution: S94, S98
- Astronomy 8100: stellar structure and evolution: S00, S04, S06, S08
- Astronomy 840: extragalactic astronomy: S91$_*$
- Astronomy 8700: relativistic astrophysics and cosmology: S88, W92, W95, W97, S99, S02, F04, S07, S10
- Astronomy 8900: graduate seminar: W87, F87, F89, S90, F90, S92, S93, F93, S95, F96, F01,S02, S04, F04, S05, F05
- Astronomy 8910/8999: graduate directed study: F86, W87, S87, F87, W88, S88, F88, W89, F90, W91, F91, W92, S92, F92, W93, S93, Su93, F93, W94, S94, W95, S95, Su95, F95, W96, S96, Su96, F96, W97, S97, Su97, F97, W98, S98, F98, S99, Su99, F99, S00, F01, S02, F02, S03, Su03, F03, S04, Su04, F04, S05, Su05, F05, S06, Su06, F06, S07
- Physics 4900: undergraduate directed study: S90, W94, S94, F98, S99, F03, S04
- Physics 8120: plasma physics and astrophysics: S96, F98, F01, S05, F07
- Physics 8910: graduate directed study: F91, S97, F02, S03, F03, S04, Su04, F04, S05, Su05, F05, S06, Su06

At Princeton University

- Astrophysical Sciences 205: from planets to quasars: F00

At the University of Pennsylvania

- Astronomy 1: one semester introduction to astronomy: F79, S80, F80, S81, F81
- Astronomy 3: solar system astronomy: F84, F85
- Astronomy 4: stars and stellar evolution: F81, F82, S83, F83, S84, F84
- Astronomy 6: search for extraterrestrial life: S80, S86 (co-taught)
- Astronomy 8: space astronomy: S80, F80, S81, S82, F82, S84, S85, S86
- Astronomy 390: undergraduate independent study: F81, F83
- Astronomy 410: mathematical methods in astrophysics: F83, F85
- Astronomy 506: graduate level interstellar medium: S83
- Astronomy 511: introduction to stellar structure and cosmology: S86
- Astronomy 606: graduate level plasma astrophysics: S82, S85
- Astronomy 701: seminar on formation of planets, stars & galaxies: F79
- Astronomy 999: graduate independent study: F79, S80, F80, F82, F83, F84, S85
- Physics 999: graduate independent study: S85, F85, S86

PARTICIPATION IN INTERNATIONAL MEETINGS

- Enrico Fermi School on the Physics and Astrophysics of Neutron Stars and Black Holes, Varenna, Italy; June 1975
- Eighth Texas Symposium on Relativistic Astrophysics, Dallas, Texas; December 1976
- NATO Advanced Study Institute on Quasars, Cambridge, England; July-August 1977
  Winter School on Binary Stars, Tata Institute of Fundamental Research, Bombay, India; January 1978
- Workshop on Astrophysical Winds and Accretion, Aspen, Colorado; June 1979
- Eleventh Texas Symposium on Relativistic Astrophysics, Austin, Texas; December 1982
- Workshop on Active Galactic Nuclei, Santa Cruz, California, July 1984
- NRAO Workshop on Physics of Energy Transport in Extragalactic Radio Sources, Green Bank, West Virginia; August 1984 –invited
- Canadian Institute for Theoretical Astrophysics Workshop on Jets, Toronto, Ontario; June1985
- Workshop on Supermassive Black Holes, Fairfax, Virginia; October 1986
- Thirteenth Texas Symposium on Relativistic Astrophysics, Chicago, Illinois; December 1986
- Indian Institute of Astrophysics Workshop on Astronomical Instrumentation, Kodaikanal; August 1987
- Conference on Active Galactic Nuclei, Atlanta, Georgia; October 1987 – organizer
- Max Planck Institute Workshop on Hot Spots in Extragalactic Radio Sources, Ringberg Castle, Germany; February 1988 – invited
- International Astronomical Union (IAU) Symposium 134, Active Galactic Nuclei, Santa Cruz, California; August 1988
- Program on Computational Fluid Dynamics, Institute for Theoretical Physics, Santa Barbara, California; September-December 1988 – invited

- Conference on Variability of Active Galactic Nuclei, Atlanta, Georgia; May 1990 – organizer
- IAU Colloquium 129, Structure and Emission Properties of Accretion Disks, Paris, France; July 1990
- Meeting on Variability of Blazars, Turku, Finland; January 1991 – invited
- Testing the AGN Paradigm, 2nd Annual Maryland Astrophysics Meeting, College Park, Maryland; October 1991
- Astrophysical Jets Symposium, Space Telescope Science Institute, Baltimore, Maryland; May1992 – invited
- Workshop on Accretion and Jets in Astrophysics, Wuhan, China; November 1992 – invited
- Sixteenth Texas Symposium on Relativistic Astrophysics and Third International Symposium on Particles, Strings, and Cosmology, Berkeley, California; December 1992
- Conference on Mass Transfer within Galaxies, Lexington, Kentucky; April 1993
- IAU Symposium 159, Active Galactic Nuclei across the Electromagnetic Spectrum, Geneva, Switzerland; August – September 1993
- Quasars and AGN: High Resolution Radio Imaging, National Academy of Sciences Colloquium, Irvine, California; March 1995
- Workshop on Energy Transport in Radio Galaxies and Quasars, Tuscaloosa, Alabama; September 1995 – invited
- Blazar Variability, Miami, Florida; February 1996 – invited
- Workshop on Galaxy Formation and Evolution, Aspen, Colorado; June 1996
- Workshop on the Bright Spot Model for AGN, Trieste, Italy; September 1996 – invited
- Conference on Blazars, Black Holes and Jets, Girona, Catalonia; September 1996
- Colloquium on the Frontiers of Physics, Nashville, Tennessee; May 1997
- Symposium on Non-linear Phenomena in Accretion Disks around Black Holes, Reykjavik, Iceland; June 1997 – invited
- General Relativity XV, Pune, India; December 1997
- Workshop on Observational Evidence for Black Holes in the Universe, Calcutta, India; January 1998 – invited
- AAAS Conference on Networking Resources for Collaborative Research in the Southeast, Atlanta, Georgia; June 1998
- BL Lacertae Phenomenon, Turku, Finland; June 1998 – invited
- Lifecycles of Radio Galaxies, Baltimore, Maryland; July 1999
- Particles and Acceleration in Radio Galaxies, Oxford, England; August 2000
- International Astronomical Union General Assembly, Manchester, England; August 2000
- Active Galactic Nuclei: Central Engine to Host Galaxy, Meudon, France; July 2002 – invited
- AGN Physics with the Sloan Digital Sky Survey, Princeton, New Jersey; July 2003
- Virtual Astrophysical Jets, Dogliani, Italy; October 2003 – invited
- The Impact of Active Galaxies on the Universe at Large, London, England; February 2004 – invited
- Blazar Variability: GLAST and Beyond, Miami, Florida; April 2005 – invited
- XXIXth International Cosmic Ray Conference, Pune, India; August 2005

- Third Asian Pacific Center for Theoretical Physics Winter School on Black Hole Astrophysics, Pohang, Korea; January 2006 – invited
- Extragalactic Jets, Girdwood, Alaska; May 2007
- The Variable Universe: A Celebration of Bohdan Paczyński, Princeton; Sept. 2007
- Magneto-Rotational Instability Workshop, Princeton, New Jersey; June 2008
- Computational Astrophysics, Princeton, New Jersey; July 2009
- Multiwavelength Variability of Blazars, Guangzhou, China; September 2010 – invited
- Planck Satellite Initial Results, Princeton, New Jersey; February 2011
- Council on Undergraduate Research, Bi-Annual Meeting, Ewing, New Jersey; June 2012
- Revealing Radiative Processes Near Black Holes, Princeton, New Jersey; May 2013
- Shining from the Heart of Darkness: Accretion and Jets around Black Holes, Kathmandu, Nepal; October 2016

The above list does not include participation at national meetings of the American Astronomical Society as well as national and divisional meetings of the American Physical Society; typically, I attend one such general meeting per year.

LECTURES

Over 130 invited seminars, colloquia and lectures at colleges, universities and research institutions other than my then current one have been presented.

The American institutions at which presentations were made include: Alabama, Auburn, Berkeley, Caltech, Chicago, Columbia, Cornell, Emory, Florida Atlantic, Georgia, Georgia State, Georgia Tech, Harvard, Haverford, Illinois, Indiana, Institute for Advanced Study, Iowa, Irvine, Kentucky, Livermore, Maryland, National Radio Astronomical Observatory, Nevada–Las Vegas, New Mexico, North Carolina, Oklahoma, Pennsylvania, Penn State, Princeton, Rochester, Rutgers, Santa Barbara, Santa Cruz, South Carolina, Space Telescope Science Institute, Stanford, Temple, Texas, The College of New Jersey, Valdosta State, Villanova, Virginia, Widener and Yale.

In Europe presentations have been given at universities or institutes in: Bonn, Cambridge, Copenhagen, Geneva, Haifa, Helsinki, Oxford, Paris, Stockholm, Torino, Trieste, Turku, and Warsaw.

In Asia and Australia: Ahmedabad, Bangalore, Beijing, Canberra, Delhi, Kolkata, Mumbai, Nainital, Ootacamund, Pohang, Pune, Shanghai, Sydney and Wuhan.

CONFERENCE ORGANIZATION

- Co-chair of both the Scientific Organizing Committee and the Local Organizing Committee (with H. Richard Miller) of the Georgia State University Conference on Active Galactic Nuclei, which was held October 28–30, 1987, and supported by an NSF Grant of $5,000. Co-edited the proceedings of this conference, published by Springer-Verlag in July 1988.
- Co-chair of both the Scientific Organizing Committee and the Local Organizing Committee (with H. Richard Miller) of the Georgia State University Conference on Variability of Active Galactic Nuclei, which was held May 2–4, 1990, and supported by an NSF Grant of $8,000. Co-edited the proceedings of this conference, published by Cambridge University Press in April 1991.
- Member, Local Organizing Committee, 181st Meeting of the American Astronomical Society, Atlanta, Georgia, January 1992.
- Member, Scientific Organizing Committee, Workshop on Blazar Variability, Florida International University, Miami, Florida, held 6–9 February, 1996.
- Member, Scientific Organizing Committee, Workshop on Observational Evidence for Black Holes in the Universe, Calcutta; held 1–17 January 1998.
- Member, Local Organizing Committee, 195th Meeting of the American Astronomical Society, Atlanta, Georgia, January 2000.
- Member, Scientific Organizing Committee, GLAST and Beyond: Second Workshop on Blazar Variability, Florida International University, Miami, Florida, 10-12 April 2005.

PROFESSIONAL DEVELOPMENT IN ADMINISTRATION

- Council of Colleges of Arts and Sciences workshop for new Department Chairs, Chicago, Illinois, July 2010

UNIVERSITY, COLLEGE AND SCHOOL SERVICE

At The College of New Jersey

- Faculty Senate, Elected from School of Science: S11–S16; Executive Board: F14—S16
- Sabbatical Committee: F11—S14; Vice Chair, F11—S12; Chair, F12—S14
- Committee on Faculty Affairs: F13—S16 ; Vice Chair, F14—S15; Chair, F15—S16
- School of Science Mini-Grant Proposal Committee, Chair: F12
- TAP interdepartment mentor: F12—S13
- STEM Building and Renovation Planning Committee: F13—

At Georgia State University

- College of Arts and Sciences, Natural and Computational Sciences Promotion and Tenure Area Committee: F02 – S08; Chair F06 – S08
- Senate Academic Program Review Sub-Committee for Health Admin.: F06 – S07
- College of Arts and Sciences representative to Honors Council: F92 – S05
- Academic Group on the University's Strategic Plan: F99 – S00
- University Senator: S91 – S97
- Senate Committee on Academic Programs and Continuing Education: S91 – S92; S93 – S95

- Chair, Undergraduate Council of APACE: F93 – S95
- Senate Comm. on Admissions and Standards: S91 – S93, S94 – S97 Chair, S95 – S97
- Subcommittee on Faculty Workload Policy: F94 – S96
- Subcommittee on Transfer and Admissions Standards: W95 – S97
- Chair, Housing Advisory Subcommittee: S95 – S97
- SACS Reaccreditation Strategic Focus Committee: S96 – F98
- SACS Reaccreditation Undergrad Programs Compliance Subcommittee: F96 – F98
- Enrollment Management Task Force: S96 – S97
- Senate Committee of Chairs: S95 – S97
- Senate Committee on Planning and Development: S95 – S97
- Master Plan Subcommittee: S95 – S97
- Strategic Planning Subcommittee: S96 – S97
- Recreation Center Task Force: F94 – S95
- Student Services and Student Fee Utilization Task Force: W96
- University Senate ad hoc Subcommittee on Computer Visualization: S90
- Arts and Sciences Committee on Assessment of General Education: S93, S94– F94

At the University of Pennsylvania

- University Community Relations Committee: F82 - S84
- University Bookstore Committee: F85 - S86
- Faculty of Arts and Sciences Curriculum Committee: F81 - S83
- Faculty of Arts and Sciences Computer Committee: F81 - S86
- Faculty of Arts and Sciences Graduate Education Committee: F85 - S86

DEPARTMENTAL ADMINISTRATION

At The College of New Jersey

- Department Chair: F10 – S16
- Chair, Faculty Search Committee: F10 – S15
- Promotion and Reappointment Committee: F10 – ; Chair, S11—F11
- Chair, Department Self-Study Committee: F11 – S12
- Curriculum Committee: F10 –
- Observatory Planning Committee: S10 –
- Student Affairs Committee: F14 – S16

At Georgia State University

- Graduate Director for Astronomy: F94 – F99
- Chair, Academic Program Review Self-Study Committee: F98 – F00; F06 – F09
- Chair, National Research Council Astronomy Program Review Committee: F06 – S07
- Department Chair Evaluation Committee: Member, S90; Chair, S97; Member, S00; Chair, S03; Member S08
- Executive Committee: S91 – W92; F95 – S00
- Promotion & Tenure Advisory Committee: F93 – S02; Chair, F93–Su95, F01 – S02
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- Departmental Goals Statement Committee: W90 – F90
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At the University of Pennsylvania

- Undergraduate Chairman: S83 – F83
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- Chair, Graduate Examination Committee: S80 – S86
- Computer Account Administration: F81 – S86
- In charge of undergraduate courseware development: F80 – S86
- Organizer of Weekly Seminar: F79 – F85

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3. “Optical Variability of the Peculiar TeV Gamma-ray Active Galactic Nucleus IC 310”, A. Agarwal, A.C. Gupta, H. Gaur, & P.J. Wiita (submitted to MNRAS)

4. “Possible Origin of the Radio Halos in Clusters of Galaxies via Adiabatic Compression of their Radio Galaxies by Merger Shocks”, Gopal-Krishna & P.J. Wiita (in preparation)

5. “A Peculiar Flare in 3C 454.3”, A.C. Gupta, A. Mangalam, P.J. Wiita, H. Gaur, et al. (in preparation)

6. “Transcriptional Control of Ribosomal mRNA and the Energetics of Protein Translation”, A.P. Wiita & P.J. Wiita (in preparation)

7. “High Abundance of Relic Radio Emission Associated with Powerful Radio Galaxies”, S.K. Sirothia, Gopal-Krishna, & P.J. Wiita (in preparation)

Names *in italics* are TCNJ students.

ABSTRACTS

List available on request. Ninety-three have been published through December 2016.

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