

CURRICULUM VITAE

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Education

1978	Massachusetts Institute of Technology	B.S. in Physics
1984	University of Massachusetts	Ph.D. in Astronomy

PhD Dissertation

Morphology and Energetics of Narrow Angle Tail Radio Sources

Research

Interests	quasars and active galaxies; clusters of galaxies; the intracluster medium;
Techniques	radio single dish and interferometric imaging and spectroscopy ground based optical imaging and spectroscopy space based ultraviolet (HST) X-ray (ROSAT, ASCA, XMM, & CHANDRA) Infrared (Spitzer) imaging and spectroscopy

Professional Employment

2004–	Associate Professor (with Tenure) Rochester Institute of Technology, Rochester, NY
1997–2004	Associate Astronomer (with Tenure) Space Telescope Science Institute, Baltimore, MD
1995–97	Associate Astronomer Space Telescope Science Institute, Baltimore, MD
1990–95	Assistant Astronomer Space Telescope Science Institute, Baltimore, MD
1987–90	Postdoctoral Research Associate Netherlands Foundation for Research in Astronomy, Dwingeloo, NL

1984–87 Postdoctoral Research Associate
National Radio Astronomy Observatory, Charlottesville, VA.

Management and Technical Responsibilities

2002– Chair, Phase I to Grant Management System (PHASTGMS) working group
2002-04 Project Scientist, APT Visit Planner
2002-04 Science Programs Scientist
2001-04 Project Scientist, APT Exposure Time Calculators
2000-02 ACS Instrument Scientist
1996-99 WFPC2 Instrument Scientist
1995-96 Chair, User Support Coordinating Committee
1994-95 Lead, Observer Liaison Scientists
91,94,97 HST TAC Panel Coordinator
1990-93 Proposal Scientist, User Support Branch

Academic Service

2007- Chair, AST Graduate Student Committee
2006- Organizer, Astronomy Colloquium Series
2003-04 JHU Graduate Student Committee
2003-04 STScI Financial Review Committee
2002-04 STScI Science Personnel Committee
2002-04 Deputy, Task Force 2, Science Culture of STScI
2001-02 Secretary, STScI Senior Science Staff
1999-00 STScI Science Recruitment Committee
1998-99 Chair, STScI Science Recruitment Committee
1997-98 STScI Science Personnel Committee
1994-96 Chair, STScI AGN Journal Club

Professional Societies

American Astronomical Society
European Astronomical Society
International Astronomical Union (Commissions 28 and 40)
Sigma XI, The Scientific Research Society

Awards

2003 NASA/GSFC Group Award - Advanced Camera for Surveys Flight Team

Adjunct Faculty Positions

1992– SUNY, Stony Brook

Community Service

- 1988–90 Westerbork Synthesis Radio Telescope Time Allocation Committee
- 1992–93 VLA and VLBA proposal referee
- 1997–98 VLA and VLBA proposal referee
- 1996 ASCA AO5 USA Time Allocation Committee
- 1996–00 NRAO Users Committee
- 2000 RXTE AO6 Time Allocation Committee
- 2003 RXTE AO8 Time Allocation Committee
- 2003 Chair, NASA ADP/LTSA Review Panel on Large Scale Structure
- 2003 Future of VLBI in the US Committee
- 2005– Astronomical Society of New York, Institutional Representative
- 2005–06 Astronomical Society of New York, Chair - Investment Committee
- 2006 HST Cycle 15 Extragalactic Proposal Review Panel
- 2006– Astronomical Society of New York, Board Member
- 2007 Chandra AO9 Time Allocation Committee
- 2008 Spitzer Cycle 5 Time Allocation Committee

Refereeing

Astronomical Journal
Astrophysical Journal
Astronomy & Astrophysics
Monthly Notices of the Royal Astronomical Society
National Science Foundation
Nature
Publications of the Astronomical Society of Japan
Publications of the Astronomical Society of the Pacific
Israel Science Foundation
Italian Ministry for Universities and Research
Research Corporation

PI Grants

- 1992 ROSAT A03, “PSPC Images of GPS Radio Galaxies”, \$25,000
- 1993 HST AR/DD Proposal 4933, “The Mini-alignment Effect in Seyferts,” \$50,000
- 1995 HST Cycle 5 Proposal 5934, “A Search for UV Absorption Lines in the Intracluster Medium of Abell 1030,” \$16,261
- 1996 ASCA Proposal, “Probing the Nuclei of GHz Peaked Spectrum Galaxies,” \$20,196
- 1996 HST Cycle 6 Proposal 6717, “UV Spectroscopy of the Luminous Cooling Flow Nebula in A2597 \$47,097
- 1996 HST Cycle 6 Proposal 6776, “A Comparative HST Imaging Study of Radio

Galaxies and the Hosts of Radio-Loud and Radio-Quiet Quasars,” \$96,561
(Admin PI)

1997 HST Cycle 7 Proposal 7447, “The Cosmological Evolution of Quasar Host Galaxies” \$99,470 (Admin PI)

1997 HST Cycle 7.5 Proposal 7855, “The Evolution of Powerful Radio Galaxies” \$90,329

1998 HST AR 7975, “A Systematic Study of Quasar Host Galaxies” \$96,983

1999 HST Cycle 8 Proposal 8104, “Constraints on the Evolution of Powerful Radio Galaxies” \$53,773

1999 HST Cycle 8 Proposal 8107, “What is the Nature of the Cold Medium in Cooling Flow Clusters?” \$47,624

2001 HST Cycle 10 Proposal 9085, “Measuring the Masses of High-Z Quasar Host Galaxies” \$89,286 (Admin PI)

2002 CHANDRA AO4, “CHANDRA Imaging of a Complete Sample of Low Luminosity Radio Galaxies: Jets vs. Disks in the Black Hole Paradigm” \$35,195

2002 HST Cycle 11 Proposal 9085, “Life Cycles of Radio Galaxies” \$32,557

2003 HST Cycle 12 Proposal 9897, “Time Scales for Gas Transport, Star Formation, and AGN Fueling in the Born-again Radio Galaxy 3C236” \$53,276

2003 XMM AO2, “Probing the Hosts, Environments, and Physics of Young Radio Galaxies” \$35,195

2004 HST Cycle 13 10117, “The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies” \$51,744

2004 Spitzer/JPL Cycle 1, “Infrared SEDs of Seyfert Galaxies: Starbursts and the Nature of the Obscuring Medium” \$98,500

2006 Spitzer/JPL Cycle 3, “A Census of Star Formation in Brightest Cluster Galaxies” \$86,055

2007 HST Cycle 16, Program 11230 , “HST FUV Observations of Brightest Cluster Galaxies: The Role of Star Formation in Cooling Flows and BCG Evolution” \$36,053

2007 Chandra Cycle 9, “Interaction of AGN Outbursts with their Environments,” \$11,598

2007 Chandra Cycle 9, “Towards a Complete Sample: 3CR Extragalactic Radio Sources with $z < 0.3$ ” \$35,000

Meetings Organized

NRAO Workshop No. 16 on “Continuum Radio Processes in Clusters of Galaxies,”
August 4–8, 1986 with J. M. Uson

Dwingeloo Workshop on “Compact Steep Spectrum and GHz Peaked Spectrum Radio
Sources,” June 19–20, 1990 with C. Fanti, R. Fanti, and R. Schilizzi

STScI Workshop on “Active Galactic Nuclei at High Redshifts,”
August 21–23, 1991 with A. Koratkar, T. Heckman, A. Kinney, and E. Tolstoy

STScI Symposium on “Astrophysical Jets,”
May 12-14, 1992 with D. Burgarella, M. Fall, T. Heckman, M. Livio, D. Macchetto,
C. Norman, N. Panagia, J. Pringle, and W. Sparks

STScI AGN Workshop on “Life Cycles of Radio Galaxies,”
July 15-17, 1999 with J. Biretta, P. Leahy, A. Koekemoer, E. Perlman, P. Barthel

“The Third Workshop on GPS and CSS Radio Sources,” Kerastari, Greece,
May 28-31, 2002 with Tazzo Tsumis, Richard Schilizzi, Carla Fanti, Roberto Fanti,
Anton Koekemoer, Wim De Vries, Ignas Snellen, Geoff Bicknell

Astronomical Society of New York, Spring Meeting, Rochester, NY, April 2006, with
Catherine Buchanan, Preeti Kharb, Dan Batcheldor, Andy Robinson

The 4th GPS/CSS Meeting, Riccione, Italy, May 26-29, 2008, with Daniele Dallacasa,
Mike Dopita, Alvaro Labiano, Andrzej Marecki Raffaella Morganti,
Dhruba Jyoti Saikia, Ignas Snellen, Carlo Stanghellini, Diana Worrall

Proceedings Edited

NRAO Workshop No. 16 on “Radio Continuum Processes in Clusters of Galaxies,”
August 4–8, 1986 with J. M. Uson.

Dwingeloo Workshop on “Compact Steep Spectrum and GHz Peaked Spectrum Radio
Sources,” June 19–20, 1990 with C. Fanti, R. Fanti, and R. T. Schilizzi

STScI Symposium on “Astrophysical Jets,” May 12-14, 1992
with D. Burgarella and M. Livio

Undergraduate Students Supervised

George Privon 2004–06
Candida Allen 2005–06
Ryan Miller 2006–
Bryan Rague 2006–
Shawn Staudaher 2006 -

Russell Barkley 2007–
Ting Lik 2007–
Melissa Trempanier 2007–

Graduate Students Advised

Carlo Stanghellini (Univ. of Bologna) 1990-92
Thesis: Radio and Optical Imaging of GPS Radio Sources: Global Properties

Willem De Vries (Univ. of Groningen) 1995-99
Thesis: Host Galaxies of Powerful Extragalactic Radio Sources

David Russell (Univ. of Manchester) 2000-03
Thesis: HST and Radio Observations of Optical Jets

Alvaro Labiano (Univ. of Groningen) 2002-06
Thesis: Interaction of Compact Radio Galaxies with their Ambient Medium

Avanti Tilak (Johns Hopkins University) 2003-06
Thesis: Constraints on Jets and Accretion Disks in Low Luminosity Radio Galaxies

George Privon (Rochester Institute of Technology) 2005-06
Masters Thesis: Spitzer Observations of Cygnus A

Post-Docs Supervised

Anton Koekemoer 1997 - 1998
Marek Kukula 1997 - 1999
Catherine Buchannan 2004 - 2006
Preeti Kharb 2005 - 2007
Jacob Noel-Storr 2006 -

Talks and Colloquia

“Tailed Radio Galaxies as a Probe of Galaxy Orbits in Clusters,” University of Groningen, Groningen, Netherlands, January 1988.

“Tailed Radio Galaxies as a Probe of Galaxy Orbits in Clusters,” University of Leiden, Leiden, Netherlands, February 1988.

“Subarcsecond Resolution VLA Observations of Core-dominated Quasars,” Netherlands Foundation for Research in Astronomy, Dwingeloo, Netherlands, March 1988.

“Subarcsecond Resolution VLA Observations of Core-dominated Quasars,” University of Bonn, Bonn, Germany, June 1988.

“Subarcsecond Resolution VLA Observations of Core-dominated Quasars,” Arecibo Observatory, Arecibo, PR, October 1988.

“Subarcsecond Resolution VLA Observations of Core-dominated Quasars,” Istituto di Radioastronomia, Bologna, Italy, October 1988.

“Subarcsecond Resolution VLA Observations of Core-dominated Quasars,” ESO, Garching, Germany, October 1988.

“Subarcsecond Resolution VLA Observations of Core-dominated Quasars,” University of Groningen, Groningen, Netherlands, November 1988.

“Subarcsecond Resolution VLA Observations of Core-dominated Quasars,” University of Leiden, Leiden, Netherlands, November 1988.

“Subarcsecond Resolution VLA Observations of Core-dominated Quasars,” Jodrell Bank, Manchester, England, November 1988.

“CCD Observations of GHz-Peaked-Spectrum Radio Sources,” VLA, Socorro, New Mexico, January 1989.

“Radio and Optical Observations of Powerful, Ultracompact GPS Radio Sources,” Institut d’Astrophysique, Paris, France, October 1989.

“Powerful, Ultracompact Radio Sources,” University of Pittsburgh, Pittsburgh, Pennsylvania, January 1990.

“Powerful, Ultracompact Radio Sources,” University of Iowa, Iowa City, Iowa, January 1990.

“Powerful, Ultracompact Radio Sources,” Space Telescope Science Institute, Baltimore, Maryland, February 1990.

“Powerful, Ultracompact Radio Sources,” Pennsylvania State University, State College, Pennsylvania, February 1990.

“Powerful, Ultracompact Radio Sources,” Columbia University, New York, New York, February 1990.

“Powerful, Ultracompact Radio Sources,” University of Groningen, Groningen, The Netherlands, March 1990.

“What are the GHz-Peaked-Spectrum Radio Sources?” University of Leiden, Leiden, The Netherlands, March 1990.

“Powerful, Compact Radio Sources” University of Utrecht, Utrecht, The Netherlands, April 1990.

“Powerful, Compact GHz-Peaked-Spectrum Radio Sources: Frustrated Classical Doubles?” National Radio Astronomy Observatory, Charlottesville, VA, March 1991.

“What are the Powerful, Compact GHz-Peaked-Spectrum Radio Sources?” NASA – Goddard Space Flight Center, Greenbelt, MD, March 1991.

“What are the Powerful, Compact GHz-Peaked-Spectrum Radio Sources?” University of

Minnesota, Minneapolis, MN, May 1991.

“Ultra-Compact, Powerful Radio Sources: AGNs in Extremely Dense Environments?”
Boston University, Boston, MA, October 1991.

“Ultra-Compact, Powerful Radio Sources: AGNs in Extremely Dense Environments?”
Rutgers University, Piscataway, NJ, November 1991.

“GHz-Peaked Spectrum Radio Sources: Frustrated Classical Doubles?” University of
Texas, Austin TX, March 1992.

“Optical and Radio Observations of 0218+357: The Smallest Einstein Ring?” University
of Texas, Austin TX, March 1992.

“Optical and Radio Observations of 0218+357: The Smallest Einstein Ring?” STScI, April
1992.

“Young Radio Galaxies,” SUNY, Stony Brook, NY, August 1992.

“0218+357: The Smallest Einstein Ring,” SUNY, Stony Brook, NY, August 1992.

“0218+357: The Smallest Einstein Ring,” NRAO - VLA, Socorro, NM, November 1992.

“0218+357: The Smallest Einstein Ring,” Netherlands Foundation for Research in Astron-
omy, Dwingeloo, NL, January 1993.

“GPS Radio Sources: The Young and the Smothered,” University of Maryland, College
Park, MD, February 1993.

“0218+357: The Smallest Einstein Ring?” Caltech, Pasadena, CA, March 1993

“0218+357: The Smallest Einstein Ring?” Univ of Calif., Berkeley, CA, March 1993

“Spectroscopy of the Intracluster Medium: The Death of Cooling Flows?” STScI, Balti-
more, MD, March 1993

“A Comparison of the Infrared Properties of Radio Loud AGN,” STScI, Baltimore, MD,
December 1993

“Obscuration, Orientation, Evolution, and the Infrared Properties of Radio-Loud Active
Galaxies,” University of Virginia, Charlottesville, VA, December 1993

“Extended HI Absorption in the Cooling Flow Cluster Abell 2597,” STScI, Baltimore, MD,
21218, January 1994

“The Search for Cold Gas in the IntraCluster Medium,” Institute for Astronomy, University
of Hawaii, Honolulu, HI, February 1994

“The Search for Cold Gas in the IntraCluster Medium,” National Radio Astronomy Ob-
servatory, Socorro, NM, July 1994

“Towards a Multiwavelength Perspective on the GHz Peaked Spectrum Radio Sources,”
Caltech, Pasadena, CA, November 1994

“Towards a Multiwavelength Perspective on the GHz Peaked Spectrum Radio Sources,” National Radio Astronomy Observatory, Charlottesville, VA, February 1995

“Towards a Multiwavelength Perspective on the GHz Peaked Spectrum Radio Sources,” Netherlands Foundation for Research in Astronomy,” Dwingeloo, The Netherlands, August 1995

“The Search for Cold Gas in the IntraCluster Medium,” Leiden University, Leiden, The Netherlands, August 1995

“The Search for Cold Gas in the IntraCluster Medium,” Groningen University, Groningen, The Netherlands, August 1995

“X-ray and Optical Observations of GHz Peaked Spectrum Radio Sources,” STScI, Baltimore, February 1996.

“The Birth of a Radio Galaxy,” Goddard Space Flight Center, Greenbelt, MD, March 1996.

“The Birth of a Radio Galaxy,” Boston University, Boston, MA, April 1996

“The Birth of a Radio Galaxy,” Brandeis University, Waltham, MA, April 1996

“The Birth of a Radio Galaxy,” Carnegie Observatories, Pasadena, CA, May 1996

“The Birth of a Radio Galaxy,” University of California at Santa Barbara, Santa Barbara, CA, May 1996

“The Search for Cold Gas in the Intracluster Medium,” Caltech, Pasadena, CA, May 1996

“The Birth of a Radio Galaxy,” U.S. Naval Observatory, Washington, DC, June 1996

“The Origin and Evolution of Powerful Radio Galaxies,” Dominion Astrophysical Observatory, Victoria, Canada, August 1996.

“The Birth of a Radio Galaxy,” Naval Research Laboratory, Washington, DC, November 1996

“The Birth of a Radio Galaxy,” STScI Colloquium, Baltimore, MD, March 1997

“Constraints on Radio Galaxy Evolution from the GHz Peaked Spectrum Radio Sources,” IGPP/LLNL, August 1997

“Constraints on Radio Galaxy Evolution from the GHz Peaked Spectrum Radio Sources,” University of New Mexico, Albuquerque, NM, June 1998

“Constraints on Radio Galaxy Evolution from the GHz Peaked Spectrum Radio Sources,” Carnegie Observatories, Pasadena, CA, August 1998,

“Constraints on Radio Galaxy Evolution,” New York University, New York, NY, April 1999

“Constraints on Radio Galaxy Evolution from the GHz Peaked Spectrum Radio Sources,”

University of Pennsylvania, Philadelphia, PA, May 1999

“A Study of Young Radio Galaxies and Constraints on Radio Galaxy Evolution from GPS Sources,” National Radio Astronomy Observatory, Charlottesville, VA, June 1999

“Constraints on Radio Galaxy Evolution,” Kapteyn Laboratory, University of Groningen, Groningen, The Netherlands, June 1999

“HST/WFPC2 Imaging of the Host Galaxies of Powerful AGN: Implications for the AGN Paradigm,” LHEA, NASA - Goddard Space Flight Center, Greenbelt, MD, September 1999

“Life Cycles of Radio Galaxies,” Yale University, New Haven CT, April 2000

“HST and VLBA Observations of Low Luminosity Radio Galaxies,” IGPP/LLNL, Livermore, CA, May 2000

“Life Cycles of Radio Galaxies,” Institut of Astrophysics, Paris, France, November, 2000

“3C236, Radio Source, Interrupted?” Department of Physics, Penn State University, Reading, PA, January 2002

“Constraints on the Evolution of Powerful Radio Sources,” AGN Journal Club, STScI, Baltimore, April 2003

“FUV Observations of the Emission Line Nebulae in A426, A1795, and A2597,” Goddard Space Flight Center, Greenbelt, MD, October 2003

“Constraints on the Evolution of Powerful Radio Sources,” University of Virginia, Charlottesville, VA, October 2003

“FUV Observations of the Emission Line Nebulae in A426, A1795, and A2597,” National Radio Astronomy Observatory, GreenBank, WV, October 2003

“FUV Observations of the Emission Line Nebulae in A426, A1795, and A2597,” University of Maryland, College Park, MD, October 2003

“FUV Observations of the Emission Line Nebulae in A426, A1795, and A2597,” IGPP/LLNL, Livermore, CA, January 2004

“FUV Observations of the Emission Line Nebulae in A426, A1795, and A2597,” Caltech, Pasadena, CA, February 2004

“FUV Observations of the Emission Line Nebulae in A426, A1795, and A2597,” Rochester Institute of Technology, Rochester, NY February 2004

“FUV Observations of the Emission Line Nebulae in A426, A1795, and A2597,” Pennsylvania State University, University Park, PA, February 2004

“FUV Observations of the Emission Line Nebulae in A426, A1795, and A2597,” STScI, Baltimore, MD March 2004

“HST FUV Observations of the Central Nebulae in Clusters of Galaxies” Naval Research Lab, Washington DC, April 2004

“Constraints on the Evolution of Powerful Radio Sources,” University of Rochester, Rochester, NY February 2005

“HST FUV Observations of the Central Nebulae in Clusters of Galaxies”, Bucknell University, Lewisburg, PA, March 2005.

“Why are Some Brightest Cluster Galaxies Forming Stars?” Center for Computational Relativity and Gravitation at RIT, Rochester, NY, December 2007

“Why are Some Brightest Cluster Galaxies Forming Stars?” NRAO/University of Virginia, Charlottesville, VA, January 2008

Invited Talks

“Obscuration, Orientation, and the Infrared Properties of Radio-Loud Active Galaxies,” Physics of AGN conference, Mt. Stromlo Observatory, Canberra, Australia, July 1993

“Radio Observations of the IntraCluster Medium,” Cooling Flow Workshop, University of Haifa at Oranim, Israel, August 1996

“Global Properties of GPS and CSS Sources: Constraints on Radio Source Evolution,” Leiden Workshop on GPS and CSS Radio Sources, Leiden University, Netherlands, October 1996

“Introductory Remarks,” STScI Workshop on Life Cycles of Radio Galaxies, Baltimore, MD, July 1999

“Evolution of Extragalactic Radio Sources,” JENAM Meeting, Toulouse, France, September, 1999

“Jet-Cloud Interactions in Compact Radio Sources,” Meeting on Emission Lines from Jet Flows,” Isla Mujeres, Mexico, November, 2000

“The Mysterious Centers of Clusters of Galaxies,” Astronomical Society of New York Meeting, Union College, Schenectady, NY, October 2005

Contributed Talks

“PKS 0745-191: The Archetypal Cooling Flow Radio Source?”, NATO ASI on Clusters and Superclusters, Cambridge, UK, July 1991.

“GPS Quasars at High Redshift,” STScI AGN meeting, STScI, October 1991.

“The Search for Cold Gas in the IntraCluster Medium,” Workshop on Cold Gas at High Redshift, Hoogeveen, The Netherlands, August 1995

“X-ray and Optical Observations of GHz Peaked Spectrum Radio Sources,” Workshop on Energy Transport in Radio Galaxies and Quasars,” Tuscaloosa, AL, September 1995

“X-ray and Optical Properties of GPS Radio Galaxies,” Leiden Workshop on GPS and CSS Radio Sources, Leiden University, Netherlands, October 1996

“Constraints on Radio Galaxy Evolution from the GHz Peaked Spectrum Radio Sources,” IAU Symposium No. 164, Compact Radio Sources, Socorro, NM, April 1997

“Constraints on Radio Galaxy Evolution from the GHz Peaked Spectrum Radio Sources,” Herstmonceux Conference No. 39, Relativistic Jet, Cambridge, UK, July 1998

“3C236: Radio Galaxy, Interrupted?” Meeting on the Central Kpc of Starbursts and AGN, La Palma, Spain, May 2001

“Jet-Cloud Interactions in Compact Steep Spectrum Radio Sources,” Third Meeting on GPS and CSS Radio Sources, Kerastari, Greece, May, 2002

“FUV Imaging of the Central Nebulae in Clusters of Galaxies: Hot News from Cool Cores,” Meeting on the Interaction of Black Holes with Stars, and Gas, Gramado, Brazil, March 2004

“Spitzer Observations of the 12-micron Sample of Seyfert Galaxies,” ESO Meeting on Obscured AGN Across Cosmic Time, Seeon, Bavaria, Germany, 5-8 June 2007

“Why are Some Brightest Cluster Galaxies Forming Stars?” IAU Symposium 245, Formation and Evolution of Galaxy Bulges, University of Oxford, 16-20 July 2007