

VITAE

Robin Ciardullo

Education:

- 1986: Ph.D., Astronomy, University of California, Los Angeles
Thesis: *A Photometric Investigation of the Rich Supercluster 1451+22*
- 1976: B.S., Physics and Astronomy, Yale University

Employment:

- 2003- : Professor of Astronomy & Astrophysics, The Pennsylvania State University
- 1997-2003: Associate Professor of Astronomy & Astrophysics, The Pennsylvania State University
- 1990-1997: Assistant Professor of Astronomy & Astrophysics, The Pennsylvania State University
- 1987-1990: Research Associate, National Optical Astronomy Observatories
- 1985-1987: Postdoctoral Fellow, Department of Terrestrial Magnetism, Carnegie Institution of Washington
- 1982-1985: Faint Object Spectrograph Analyst & Research Associate, Space Telescope Science Institute
- 1979-1982: Research Associate, Department of Astronomy, UCLA
- 1979-1979: Software Engineer, NORDEN (Division UTC), Norwalk, CT
- 1979-1979: Teaching Associate, Department of Astronomy, UCLA
- 1977-1978: Teaching Assistant, Department of Astronomy, UCLA
- 1977-1978: Associate Engineer, NORDEN (Division UTC), Norwalk, CT
- 1976-1977: Research Assistant, Department of Astronomy, Yale University

Honors and Awards:

- 1992: National Science Foundation Young Investigator Award
- 1977: UCLA Chancellors Intern Fellowship

Memberships:

- American Astronomical Society
- Astronomical Society of the Pacific
- International Astronomical Union

Supervised Undergraduate Honors Thesis Students:

- 2000-2001: Rachel E. Kuzio
- 2000-2001: Kara Krelove
- 2001-2002: Amanda Simone
- 2002-2005: Megan DeCesar

Supervised Ph.D. Students:

- 1992-1995: Windsor Morgan (current position: Associate Professor, Dickinson College), co-chair with Dan Weedman
- 1992-1997: Russet J. McMillan (current position: Observer, Apache Point Observatory)
- 1996-2000: John J. Feldmeier (current position: Assistant Professor, Youngstown State University)
- 2002-2008: Kimberly Herrmann (current position: Postdoc, Lowell Observatory)

Supervised Postdoctoral Research Associates:

- 2000-2004: Patrick Durrell
- 2005-2006: Ben Williams

Research Grants and Contracts:

- 1991-1992: Penn State University Research Initiation, *CCD Photometry of Planetary Nebula Nuclei with Penn State's Black Moshannon Observatory*, \$8,228
- 1992-1997: NASA Long Term Space Astrophysics Research Program, *A Detailed Investigation into the Use of Planetary Nebulae as Standard Candles*, \$358,605
- 1992-1997: Young Investigator Award, National Science Foundation, \$125,000
- 1992-1994: National Science Foundation, *Extragalactic Distance Measurements with Planetary Nebulae*, \$63,600
- 1993-1995: NASA Hubble Space Telescope, *A Snapshot Survey for Companions to Planetary-Nebula Nuclei*, (co-I, with Howard Bond, P.I.), \$21,949
- 1996-1998: NASA Hubble Space Telescope, *Resolving the Luminous [O III] λ 5007 Sources in the Early-Type Galaxies of Virgo*, \$30,983
- 1996-1998: NASA Hubble Space Telescope, *Snapshot Survey for Companions to Planetary-Nebula Nuclei*, (co-I, with Howard Bond, P.I.), \$30,500
- 1996-1999: National Science Foundation, *Measuring Distances and Stellar Kinematics with Extragalactic Planetary Nebulae*, \$165,000
- 1996-1999: National Science Foundation, *Dwarf Galaxies and Their Formation: A Study in the Compact Group Environment*, (co-I, with Jane Charlton, P.I.), \$130,000
- 1997-1999: NASA Hubble Space Telescope, *Exploring PN Production as a Probe of Elliptical Galaxy Stellar Populations*, \$53,700
- 2000-2001: NASA Hubble Space Telescope, *Red Giants, Planetary Nebulae, and the Properties of Virgo's Intracluster Stars*, \$52,479
- 2000-2007: NASA Long Term Space Astrophysics Research Program, *The Origins and Properties of Intracluster Stars*, \$532,514
- 2000-2004: National Science Foundation, *Probing the Evolution of Galaxies and Clusters with Planetary Nebulae*, \$180,971
- 2004-2008: NASA Hubble Space Telescope, *Determining the Origins of Virgo's Intracluster Stars*, \$221,412
- 2006- : National Science Foundation, *Probing Galactic Structure and Evolution with Extragalactic Planetary Nebulae*, \$229,455
- 2008- : NASA Hubble Space Telescope, *The Nature of Intermediate Redshift Ly-alpha Emitters*, (co-I, with Caryl Gronwall, P.I.), \$119,035

- 2008- : NASA Hubble Space Telescope, *The Direct Detection and Mapping of Star Forming Regions in Nearby Luminous Quasars*, (co-I, with Mike Eracleous, P.I.), \$203,280
- 2008- : National Science Foundation, *Physical Properties of Ly α Emitters at $2 < z < 3$* , (co-I with Caryl Gronwall and Eric Gawiser, co-P.I.s.) \$256,380
- 2008- : Department of Energy, *Lyman- α Emitting Galaxies at $2 < z < 3$: Towards a Calibrated Probe of Dark Energy*, (co-I, with Caryl Gronwall, P.I.), \$88,829
- 2009- : NASA Hubble Space Telescope, *Distances of Planetary Nebulae from SNAPshots of Resolved Companions*, (co-I, with Richard Wade, P.I.), \$99,435

Teaching and Outreach Grants:

- 1993-1996: National Science Foundation Instrumentation and Laboratory Improvement Program, *An Enhanced CCD System for Undergraduate Laboratory and Research In Astronomy*, \$25,612
- 2000-2005: NASA Long Term Space Astrophysics Research Program (Educational Component), *The Origins and Properties of Intracluster Stars*, \$51,200
- 2005-2006: Hubble Space Telescope (Educational Component), *Introducing 3-D Visualization of Hubble Space Telescope Data to Rural Pennsylvania*, (co-I, with Caryl Gronwall, P.I.), \$40,000

Teaching Experience:

- ASTRO 1: The Astronomical Universe. 3-credit survey of astronomy for non-science majors. *Designed and implemented web-based assignments for active learning and automated assessment.* Taught 20 times.
- ASTRO 1H: The Astronomical Universe. 3-credit survey of astronomy for non-science honors students. Taught once.
- ASTRO 11: Elementary Astronomy Laboratory. 1-credit lab course containing selected experiments in astronomy for non-science majors. Taught 3 times.
- ASTRO 293: Observational Astronomy Laboratory. 1-credit lab course in observational astronomy using telescopes, computers, and modern instrumentation. *Conceived, designed, and developed course.* Taught 3 times.
- ASTRO 480: Nebulae, Galaxies, and Cosmology. 3-credit upper division undergraduate course covering extragalactic astronomy, cosmology, and the astrophysics of gaseous nebulae. Taught 3 times.
- ASTRO 504: Extragalactic Astronomy. 3-credit graduate course covering topics in the distance scale, stellar dynamics, galaxy evolution, and cosmology. *Designed and developed course.* Taught 6 times.
- ASTRO 505a: Astrophysics of Gaseous Nebulae. 2-credit graduate course on the physics of H II regions, planetary nebulae, and AGN line emission. Taught once.
- ASTRO 534: Stellar Structure and Evolution. 3-credit graduate course on the physics of stellar interiors and stellar evolution. Taught 6 times.
- ASTRO 602: Supervised Experience in College Teaching. 1 credit course involving the supervision and instruction of ASTRO 11 Teaching Assistants. Taught 2 times.

Research Papers

(‡Supervised postdoc; †Supervised graduate student; *Supervised undergraduate)

Refereed Articles:

- Philip, A.G.D., Demarque, P., Sweigart, A.V., & Ciardullo, R.B. 1977, "A Comparison of Observations with Main-Sequence Evolutionary Models," *Pub. A.S.P.*, **89**, 554.
- Ford, H.C., Harms, R.J., Ciardullo, R., & Bartko, F. 1981, "The Dynamics of Superclusters: Initial Determination of the Mass Density of the Universe at Large Scales," *Ap. J. (Letters)*, **245**, L53.
- Ford, H., Ciardullo, R., & Harms, R. 1983, "Paired Quasars Near NGC 2639: Evidence for Quasars in Superclusters?," *Ap. J.*, **266**, 451.
- Ciardullo, R., Ford, H., & Jacoby, G. 1983, "H α Observations of Four Novae in M31," *Ap. J.*, **272**, 92.
- Ciardullo, R., Ford, H., Bartko, F., & Harms, R. 1983, "Redshifts of Groups and Clusters in the Rich Superclusters 1451+22 and 1615+43," *Ap. J.*, **273**, 24.
- Romanishin, W., Ford, H., Ciardullo, R., & Margon, B. 1984, "Spectrophotometry and Image Analysis of the Nebulosity Around the Low-Redshift Quasar 0241+622," *Ap. J.*, **277**, 487.
- Jacoby, G., Ford, H., & Ciardullo, R. 1985, "Ionized Gas in the Center of M31," *Ap. J.*, **290**, 136.
- Ciardullo, R., Ford, H., & Harms, R. 1985, "Cluster Redshifts in Five Suspected Superclusters," *Ap. J.*, **293**, 69.
- Ford, H.C., Dahari, O., Jacoby, G.H., Crane, P.C., & Ciardullo, R. 1986, "Bubbles and Braided Jets in Galaxies with Compact Radio Nuclei," *Ap. J. (Letters)*, **311**, L7.
- Ciardullo, R., Ford, H.C., Neill, J.D., Jacoby, G.H., & Shafter, A.W. 1987, "The Spatial Distribution and Population of Novae in M31," *Ap. J.*, **318**, 520.
- Ciardullo, R. 1987, "The Morphology of the Rich Supercluster 1451+22," *Ap. J.*, **321**, 607.
- Ciardullo, R., Rubin, V.C., Jacoby, G.H., Ford, H.C., & Ford, W.K., Jr. 1988, "The Morphology of the Ionized Gas in M31's Bulge," *A. J.*, **95**, 438.
- Ciardullo, R., Jacoby, G.H., Ford, H.C., & Neill, J.D. 1989, "Planetary Nebulae as Standard Candles. II. The Calibration in M31 and its Companions," *Ap. J.*, **339**, 53.
- Jacoby, G.H., Ciardullo, R., Ford, H.C., & Booth, J. 1989, "Planetary Nebulae as Standard Candles. III. The Distance to M81," *Ap. J.*, **344**, 704.
- Ciardullo, R., Jacoby, G.H., & Ford, H.C. 1989, "Planetary Nebulae as Standard Candles. IV. A Test in the Leo I Group," *Ap. J.*, **344**, 715.
- Wood, J.H., Marsh, T.R., Robinson, E.L., Stiening, R.F., Horne, K., Stover, R.J., Schoembs, R., Allen, S.L., Bond, H.E., Jones, D.H.P., Grauer, A.D., & Ciardullo, R. 1989, "The Ephemeris and Variations of the Accretion Disc Radius in IP Pegasi," *M.N.R.A.S.*, **239**, 809.

- Ciardullo, R., Jacoby, G.H., & Bond, H.E. 1989, "Serendipitous Discovery of a Distant Galactic RR Lyrae Star in Front of the Virgo Elliptical NGC 4472," *A. J.*, **98**, 1648.
- Ciardullo, R., Ford, H.C., Williams, R.E., *Tamblyn, P., & Jacoby, G.H. 1990, "The Nova Rate in the Elliptical Component of NGC 5128," *A. J.*, **99**, 1079.
- Jacoby, G.H., Ciardullo, R., & Ford, H.C. 1990, "Planetary Nebulae as Standard Candles. V. The Distance to the Virgo Cluster," *Ap. J.*, **356**, 332.
- Ciardullo, R., Shafter, A.W., Ford, H.C., Neill, J.D., Shara, M.M., & Tomaney, A.B. 1990, "The H α Light Curves of Novae in M31," *Ap. J.*, **356**, 472.
- Jacoby, G.H., Walker, A.R., & Ciardullo, R. 1990, "Planetary Nebulae as Standard Candles. VI. A Test in the Magellanic Clouds," *Ap. J.*, **365**, 471.
- Ciardullo, R., *Tamblyn, P., & Phillips, A.C. 1990, "A Search for Novae in M31 Globular Clusters," *Pub. A.S.P.*, **102**, 1113.
- Wade, R.A., Ciardullo, R., Jacoby, G.H., & Sharp, N.A. 1991, "A Sharpened H α + [N II] Image of the Nebula Surrounding Nova V1500 Cygni (1975)," *A. J.*, **102**, 1738.
- Ciardullo, R., Jacoby, G.H., & Harris, W.E. 1991, "Planetary Nebulae as Standard Candles. VII. A Test Vs. Hubble Type in the NGC 1023 Group," *Ap. J.*, **383**, 487.
- Margon, B., Phillips, A.C., Ciardullo, R., & Jacoby, G.H. 1992, "The Near-Infrared Counterpart of a Variable Galactic Plane Radio Source," *A. J.*, **103**, 924.
- Ciardullo, R., & Jacoby, G.H. 1992, "Planetary Nebulae as Standard Candles. VIII. Evidence for a Change in the Luminosity Function Cutoff at Low Metallicity," *Ap. J.*, **388**, 268.
- Jacoby, G.H., Branch, D., Ciardullo, R., Davies, R.L., Harris, W.E., Pierce, M.J., Pritchet, C.J., Tonry, J.L., & Welch, D.L. 1992, "A Critical Review of Selected Techniques for Measuring Extragalactic Distances," *Pub. A.S.P.*, **104**, 599.
- Méndez, R.H., Kudritzki, R.P., Ciardullo, R., & Jacoby, G.H. 1993, "The Bright End of the Planetary Nebula Luminosity Function," *Astr. Ap.*, **275**, 534.
- Ciardullo, R., Jacoby, G.H., & Dejonghe, H.B. 1993, "The Radial Velocities of Planetary Nebulae in NGC 3379," *Ap. J.*, **414**, 454.
- Hui, X., Ford, H., Ciardullo, R., & Jacoby, G. 1993, "The Planetary Nebula System and Dynamics of NGC 5128. I. Planetary Nebulae as Standard Candles," *Ap. J.*, **414**, 463.
- Hui, X., Ford, H., Ciardullo, R., & Jacoby, G. 1993, "The Planetary Nebula System and Dynamics of NGC 5128. II. A Planetary Nebula Catalog," *Ap. J. Suppl.*, **88**, 423.
- †McMillan, R., Ciardullo, R., & Jacoby, G.H. 1993, "Planetary Nebulae as Standard Candles. IX. The Distance to the Fornax Cluster," *Ap. J.*, **416**, 62.
- Ciardullo, R., Jacoby, G.H., & Tonry, J.L. 1993, "A Comparison of the Planetary Nebula Luminosity Function and Surface Brightness Fluctuation Distance Scales," *Ap. J.*, **419**, 479.
- *Brown, T., Córdova, F., Ciardullo, R., †Thompson, R., & Bond, H. 1994, "Einstein Observations of Ultra-soft X-ray Sources in the Magellanic Clouds," *Ap. J.*, **422**, 118.

- [†]McMillan, R., Ciardullo, R., & Jacoby, G.H. 1994, “Ionized Gas and Planetary Nebulae in the Bulge of the Blue S0 Galaxy NGC 5102,” *A. J.*, **108**, 1610.
- Devereux, N.A., Jacoby, G., & Ciardullo, R. 1995, “H α and Far Infrared Emission Within the Early-Type Spiral Galaxy M81,” *A. J.*, **110**, 1115.
- Romanishin, W., Balonek, T.J., Ciardullo, R., Miller, H.R., Peterson, B.M., Sadun, A.C., Stirpe, G.M., Takagishi, K., Taylor, B.W., & Zitelli, V. 1995, “The Galaxy Component and Nuclear Flux Measurements of NGC 5548 from Direct Imaging,” *Ap. J.*, **455**, 516.
- Soffner, T., Méndez, R.H., Jacoby, G.H., Ciardullo, R., Roth, M.M., & Kudritzki, R.P. 1996, “Planetary Nebulae and H II Regions in NGC 300,” *Astr. Ap.*, **306**, 9.
- Ford, H.C., Hui, X., Ciardullo, R., Jacoby, G.H., & Freeman, K.C. 1996, “The Stellar Halo of M104. I. A Survey for Planetary Nebulae and the PNLF Distance,” *Ap. J.*, **458**, 455.
- [†]Feldmeier, J.J., Ciardullo, R., & Jacoby, G.H. 1996, “The Planetary Nebula Distance to M101,” *Ap. J. (Letters)*, **461**, L25.
- Jacoby, G.H., Ciardullo, R., & Harris, W.E. 1996, “Planetary Nebulae as Standard Candles. X. Tests in the Coma I Region,” *Ap. J.*, **462**, 1.
- Ciardullo, R., & Bond, H.E. 1996, “A Survey for Pulsations in O VI Nuclei of Planetary Nebulae,” *A. J.*, **111**, 2332.
- Leibundgut, B., Schommer, R., Phillips, M., Riess, A., Schmidt, B., Spyromilio, J., Walsh, J., Suntzeff, N., Hamuy, M., Maza, J., Kirshner, R.P., Challis, P., Garnavich, P., Smith, R.C., Dressler, A., & Ciardullo, R. 1996, “Time Dilation in the Light Curve of the Distant Type Ia Supernova SN 1995K,” *Ap. J. (Letters)*, **466**, L21.
- Arnaboldi, M., Freeman, K.C., Mendez, R.H., Capaccioli, M., Ciardullo, R., Ford, H., Gerhard, O., Hui, X., Jacoby, G.H., Kudritzki, R.P., & Quinn, P.J. 1996, “The Kinematics of the Planetary Nebulae in the Outer Regions of NGC 4406,” *Ap. J.*, **472**, 145.
- [†]McMillan, R.J., & Ciardullo, R. 1996, “Constraining the Ages of Supernova Progenitors. I. Supernovae and Spiral Arms,” *Ap. J.*, **473**, 707.
- Bond, H.E., Kawaler, S.D., Ciardullo, R., Stover, R., Kuroda, T., Ishida, T., Ono, T., Tamura, S., Malasan, H., Yamasaki, A., Hashimoto, O., Kambe, E., Takeuti, M., Kato, T., Kato, M., Chen, J.-S., Leibowitz, E.M., Roth, M., Soffner, T., & Mitsch, W. 1996, “Astroseismological Observations of the Central Star of the Planetary Nebula NGC 1501,” *A. J.*, **112**, 2699.
- [†]Feldmeier, J.J., Ciardullo, R., & Jacoby, G.H. 1996, “Planetary Nebulae As Standard Candles. XI. Application to Spiral Galaxies,” *Ap. J.*, **479**, 231.
- Handler, G., Méndez, R.H., Medupe, R., Costero, R., Birch, P.V., Alvarez, M., Sullivan, D.J., Kurtz, D.W., Herrero, A., Guerrero, M.A., Ciardullo, R., & Breger, M. 1996, “Variable Central Stars of Young Planetary Nebulae. I. Photometric Multisite Observations of IC 418,” *Astr. Ap.*, **320**, 125.
- Howell, S., Pesce, J.E., Condon, J.J., Ciardullo, R., & Usher, P.D. 1997, “US 3215: An Active gE2 Galaxy,” *Pub. A.S.P.*, **109**, 1149.

- Ciardullo, R., Jacoby, G.H., †Feldmeier, J.J., & †Bartlett, R.E. 1998, “The Planetary Nebula Luminosity Function of M87 and the Intracluster Stars of Virgo,” *Ap. J.*, **492**, 62.
- †Feldmeier, J.J., Ciardullo, R., & Jacoby, G.H. 1998, “Intracluster Planetary Nebulae in the Virgo Cluster. I. Initial Results,” *Ap. J.*, **503**, 109.
- †Laurent-Muehleisen, S.A., Kollgaard, R.I., Ciardullo, R., Feigelson, E.D., Brinkmann, W., & Siebert, J. 1998, “Radio-loud Active Galaxies in the Northern ROSAT All-Sky Survey. III. New Spectroscopic Identifications from the RGB BL Lac Survey,” *Ap. J. Suppl.*, **118**, 127.
- Schmidt, B.P., Suntzeff, N.B., Phillips, M.M., Schommer, R.A., Clocchiatti, A., Kirshner, R.P., Garnavich, P., Challis, P., Leibundgut, B., Spyromilio, J., Riess, A.G., Filippenko, A.V., Hamuy, M., Smith, R.C., Hogan, C., Stubbs, C., Diercks, A., Reiss, D., Gilliland, R., Tonry, J., Maza, J., Dressler, A., Walsh, J., & Ciardullo, R. 1998, “The High-Z Supernova Search: Measuring Cosmic Deceleration and Global Curvature of the Universe Using Type Ia Supernovae,” *Ap. J.*, **507**, 46.
- Bond, H.E., & Ciardullo, R. 1999, “Distance to the Planetary Nebula NGC 246 from the Resolved Companion of its Central Star,” *Pub. A.S.P.*, **111**, 217.
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- Ciardullo, R., & Jacoby, G.H. 1999, “The Circumstellar Extinction of Planetary Nebulae,” *Ap. J.*, **515**, 191.
- Ciardullo, R., Bond, H.E., †Sipior, M.S., Fullton, L.K., Zhang, C.-Y., & Schaefer, K.G. 1999, “A Hubble Space Telescope Survey for Resolved Companions to Planetary Nebula Nuclei,” *A. J.*, **118**, 488.
- Shafter, A.W., Ciardullo, R., & Pritchett, C. 2000, “Novae in External Galaxies: M51, M87, and M101,” *Ap. J.*, **530**, 193.
- Kudritzki, R.-P., Méndez, R.H., †Feldmeier, J.J., Ciardullo, R., Jacoby, G.H., Freeman, K.C., Arnaboldi, M., Capaccioli, M., Gerhard, O., & Ford, H.C. 2000, “Discovery of 9 Ly α Emitters at Redshift $z \sim 3.1$ Using Narrow-Band Imaging and VLT Spectroscopy,” *Ap. J.*, **536**, 19.
- Wade, R.A., †Harlow, J.J.B., & Ciardullo, R. 2000, “Biases in Expansion Distances of Novae Arising from the Prolate Geometry of Nova Shells,” *Pub. A.S.P.*, **112**, 614.
- Lai, S.-P., Chu, Y.-H., Chen, C.-H R., Ciardullo, R., & Grebel, E.K. 2001, “A Critical Examination of Hypernova Remnant Candidates in M101. I. MF83,” *Ap. J.*, **547**, 754.
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- ‡Durrell, P.R., Ciardullo, R., Feldmeier, J.J., & Jacoby, G.H. 2002, “Intracluster Red Giant Stars in the Virgo Cluster,” *Ap. J.*, **570**, 119.

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- †Durrell, P.R., Mihos, J.C., Feldmeier, J.J., Jacoby, G.H., & Ciardullo, R. 2003, “Kinematics of Planetary Nebulae in M51’s Tidal Debris,” *Ap. J.*, **582**, 170.
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- †Williams, B.F., Ciardullo, R., Durrell, P.R., Feldmeier, J.J., Sigurdsson, S., *Vinciguerra, M., Jacoby, G.H., von Hippel, T., Ferguson, H.C., Tanvir, N.R., Arnaboldi, M., Gerhard, O., Aguerri, J.A.L., & Freeman, K.C. 2006, “Virgo’s Intracluster Globular Clusters as Seen by the Advanced Camera for Surveys,” *Ap. J.*, **654**, 835.
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- †Williams, B.F., Ciardullo, R., Durrell, P.R., *Vinciguerra, M., Feldmeier, J.J., Jacoby, G.H., Sigurdsson, S., von Hippel, T., Ferguson, H.C., Tanvir, N.R., Arnaboldi, M., Gerhard, O., Aguerri, J.A.L., & Freeman, K. 2006, “The Metallicity Distribution of Intracluster Stars in Virgo,” *Ap. J.*, **656**, 756.
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