John J. Feldmeier
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Education:

Pennsylvania State University, (1994 - 2000) Ph.D., Astronomy & Astrophysics
Dissertation Title: "A Survey of Intracluster Planetary Nebulae in the Virgo Cluster"
Dissertation Adviser: Robin Ciardullo
University of Texas, Austin (1989-1994) B.S. (Physics), B.A. (Astronomy)

Employment:

2012 - present	Associate Professor, Department of Physics and Astronomy Youngstown State University
2006 - 2012	Assistant Professor, Department of Physics and Astronomy Youngstown State University
2003 - 2006	Astronomy and Astrophysics Postdoctoral Fellow National Science Foundation
2000 - 2003	Research Associate Case Western Reserve University
1996 - 2000	Research Assistant, Department of Astronomy and Astrophysics Pennsylvania State University
1994 - 1996	Teaching Assistant, Department of Astronomy and Astrophysics Pennsylvania State University

Professional Society Memberships:

American Astronomical Society
Astronomy Society of the Pacific

Awards, Scholarships and Grants:

Youngstown State University, Distinguished Professor in Teaching, 2016
NASA Hubble Space Telescope Cycle 22 Education and Public Outreach *A Journey to the Edge of the Pinwheel - An Innovative Digital Planetarium Show* $19,674, FY 2015
Awarded Faculty Sabbatical, Youngstown State University (2014 - 2015)
Awarded Research Professorship, Youngstown State University (2016 - 2017, 2013 - 2014, 2008 - 2009, 2007 - 2008)
Youngstown State University, Distinguished Professor in Scholarship, 2011
Awarded Faculty Improvement Leave, Youngstown State University (2010-2011)

NASA Hubble Space Telescope Grant, (HST-GO-13701; Mihos PI) *Stellar Populations in the Outer Disk of M101* $14,947 personal portion, FY 2014

National Science Foundation Astronomy & Astrophysics Research Grant (AST-0807873; Feldmeier PI) *RUI: New Observations of Intragroup Starlight* $147,585, FY 2008-2014

Cottrell College Science Award, Research Corporation (7732; Feldmeier PI) *Searching for intra-group starlight using deep imaging: How and when do stars leave galaxies?* $39,184, FY 2009-2011

NASA Hubble Space Telescope Grant, (HST-GO-11177; Gronwall PI) *The Nature of z=3 Lyman-alpha emitters* $10,143 personal portion, FY 2008

Advanced Studies Grant, Youngstown State University $850, FY 2007

National Science Foundation Astronomy and Astrophysics Postdoctoral Fellowship, (AST-0302030; Feldmeier PI) *The Study of Intracluster Starlight and Demystifying the Scientific Process*

NASA Long-Term Space Astrophysics grant (Ciardullo PI) *The Origins and Properties of Intracluster Stars* $392,143, FY 2000 - FY2004

Travel grants, American Astronomical Society, August 2009 - $828, Spring 2004 - $954, Summer 2003 - $2700, Fall 2001 - $1,800

Pennsylvania State University, Braddock Graduate Fellowship (1996-1997, 1998-2000)

Pennsylvania State University, Zaccheus Daniel Scholarship (1997-1998)

Pennsylvania State University, Eberly College of Science Graduate Fellowship (1994-1996)

External Service and National Committees:

Ongoing	Referee for Astronomical Journal, Astrophysical Journal, Astrophysical Journal Letters, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, Publications of the Astronomical Society of Japan, The Physics Teacher, and Journal and Review of Astronomy Education and Outreach
August 2015 -	External Examiner for Doctor of Philosophy Thesis, Macquarie University
October 2013 -	American Astronomical Society Agent, Youngstown State University
June 2015	Member of Cycle 23 Hubble Space Telescope Time Allocation Committee
January 2014	Session Chair, American Astonomical Society Meeting #223
Fall 2011 - August 2012	Member of NSF AST Portfolio Review Panel (`http://www.nsf.gov/mps/ast/ast_portfolio_review.jsp`)
Spring 2011	Member of NSF Astronomy Review Panel
April 2009 - September 2010	Guest Moderator, Center for Astronomy Education
Spring 2009	Member of NSF Astronomy Review Panel
March 2008	Session Moderator, Ohio-Region Section of the APS Meeting
June 2006 - August 2009	Committee Member, Committee on the Status of Women in Astronomy (CSWA), American Astronomical Society

Spring 2008	Member of NSF Astronomy Review Panel
Fall 2005 - 2007	National Optical Astronomy Observatories Extragalactic Telescope Allocation Committee
1997 - 2000	Hobby Eberly Telescope First Spectrum Committee
1996 - 1997	Hobby Eberly Telescope Phase II Software Testing Committee

Internal University Service and Internal Committees:

2015 - 2016	Promotion/Tenure Committee, Department of Physics & Astronomy
2015 - 2016	Indirect Costs Committee, Department of Physics & Astronomy
2015 - 2016	Academic Goals & Assessment Committee, Department of Physics & Astronomy
2015 - 2016	Workload & Governance Committee, Department of Physics & Astronomy
Fall 2015	Planetarium Lecturer Search Committee, Department of Physics & Astronomy
Spring 2013	Judge, *Quest: A Forum for Student Scholarship*
2012 - 2014	Academic Senator, Department of Physics & Astronomy
2012 - 2013	Workload & Governance Committee, Department of Physics & Astronomy
2010 - 2014	Library Representative, Department of Physics & Astronomy
2009 - 2014	Curriculum Committee, College of Science, Technology, Engineering and Mathematics
2009 - 2010	Computer Committee, College of Science, Technology, Engineering and Mathematics
2009 - 2010	Library Representative, Department of Physics & Astronomy
Spring 2009	Session Moderator, *Quest: A Forum for Student Scholarship*
Spring 2008	Session Moderator, *Quest: A Forum for Student Scholarship*
2007 - 2008	Chairman, Senate Academic Research Committee
Spring 2007	Session Moderator, *Quest: A Forum for Student Scholarship*
2006 - 2007	Workload & Governance Committee, Department of Physics & Astronomy
2006 - 2007	Assessment Committee, Department of Physics & Astronomy
2006 - 2008	Academic Senator, Department of Physics & Astronomy

Invited Scientific Talks & Colloquia:

"Looking at the Cosmic Distance Ladder," Pennsylvania State University, Behrend (April 2016)

"Observational Studies of Intracluster and Intragroup Light and how HETDEX will help", University of Texas, Austin (February 2015)

"What it's Like Being a Professor at a Predominantly Undergraduate Intitution", University of Texas, Austin (November 2014)

"Cosmic Castaways", College of Wooster (April 2012)

"Intracluster light in Virgo and other Galaxy Clusters", University of Akron (March 2010)

"Making the Transition from Advisee to Advisor" NSF Astronomy & Astrophysics Postdoctoral Symposia (January 2010)

"Intracluster light in moderate redshift clusters", Presented at Joint Discussion 2, XXVII General Assembly of the International Astronomical Union - Rio de Janeiro - Brazil (August 2009) - invited talk

"Why is the One Degree Imager excellent for narrow-band observations?", Presented at the 214th meeting of the American Astronomical Society - Pasadena - California (June 2009)

"Intracluster light in Virgo and Other Galaxy Clusters", University of Wyoming (October 2008)

"First Results from the BOKS Survey - Searching for Extrasolar Planets in the Kepler Field", Penn State University (September 2007)

"Lonely Stars: Observational Studies of Intracluster Starlight", Gettysburg College (November 2006)

"Intracluster Planetary Nebulae" Waikoloa, Hawaii, at the International Astronomical Union Symposium, 234 (April 2006)

"Introducing VICS: The Virgo Intracluster Stars Project", NSF Astronomy & Astrophysics Postdoctoral Symposia (January 2006)

"Calibrating SN Type Ia using WIYN and the Planetary Nebulae Luminosity Function" WIYN Observatory Board Meeting, Tucson Arizona (April 2005)

"New Studies of Abell 1413: New light on a well-known 'cD' ", NSF Astronomy & Astrophysics Postdoctoral Symposia (January 2005)

"Studies of the M81 Group: The Intracluster Star Cliff and Tidal Star Formation" Steward Observatory, University of Arizona (October 2004)

"Intracluster Planetary Nebulae as Probes of Intracluster Starlight" European Southern Observatory Headquarters, Garching, Germany (May 2004)

"Extragalactic Planetary Nebulae: One of the Universe's Swiss Army Knives" Marietta College, Ohio (January 2004)

"Studies of Intracluster Starlight and Astronomy Education of Homeschoolers" NSF Astronomy & Astrophysics Postdoctoral Symposia (January 2004)

"Zwicky's Final Challenge: Studies of Intracluster Starlight" Ohio State University (January 2004)

"Studies of Individual Intracluster Stars in Nearby Clusters and Groups" Hubble Space Telescope Science Institute (August 2003)

"The most metal-poor planetary nebula in the Galaxy?" Case Western Reserve University (August 2002)

"Zwicky's Final Challenge: Studies of Intracluster Starlight" Hubble Space Telescope Science Institute (March 2002)

"Zwicky's Final Challenge: Studies of Intracluster Starlight" University of Michigan, Ann Arbor (February 2002)

"Intracluster Planetary Nebulae" Canberra, Australia, at the International Astronomical Union Symposium, 209 (November 2001)

"Intracluster Planetary Nebulae in the Virgo Cluster" University of Texas (May 2001)

"Intracluster Planetary Nebulae in the Virgo Cluster: An Update" Case Western Reserve University (November 2000)

"Intracluster Planetary Nebulae and High Redshift Objects", Lowell Observatory (December 1999)

"Intracluster Planetary Nebulae and High Redshift Objects", Case Western Reserve University (August 1999)

"Zwicky's Final Challenge" Kitt Peak National Observatory (March 1998)

Publications:

134 publications, including 3 review articles, 50 papers in refereed journals, 15 conference proceedings, and 64 conference abstracts/circulars. These publications have received more than 2800 citations, with an h-index of 27. These publications are listed below.

Refereed Publications:

Note: †- Supervised or helped supervise undergraduate student in research

Leung, A.S., Acquaviva, V., Gawiser, E., Ciardullo, R. Komatsu, E., Zeimann, G.R., Bridge, J.S.; **Feldmeier**, J.J., Finkelstein, S.L., Gebhardt, K., Gronwall, C., Hagen, A., Hill, G.J.; Schneider, D.P. "Bayesian Redshift Classification of Emission-line Galaxies with Photometric Equivalent Widths" 2016, *Ap.J.,* submitted

Mihos, J.C., Durrell, P.R., Ferrarese, L., **Feldmeier**, J.J., Côté, P., Peng, E.W., Harding, P., Liu C., Gwyn, S., Cuillandre, J.C. "Galaxies at the Extremes: Ultra-diffuse Galaxies in the Virgo Cluster" 2015, *Ap. J. (Letters)*, **809,** L21

Watkins, A.E., Mihos, J.C., Harding, P., **Feldmeier**, J.J. "Searching for diffuse light in the M96 Group" 2014, *Ap. J.*, **791,** 38

Zeimann, G. R., Ciardullo, R., Gebhardt, H., Gronwall, C., Schneider, D.P., Hagen, A., Bridge, J.S., **Feldmeier**, J.J., Trump, J.R. "3D-HST Emission Line Galaxies at z $\sim$ 2: Discrepancies in the Optical/UV Star Formation Rates" 2014, *Ap. J.*, **790,** 113

Vargas, C.J., Bish, H., Acquaviva, V., Gawiser, E., Finkelstein, S.L., Ciardullo, R., Ashby, M.L.N., **Feldmeier**, J.J., Ferguson, H., Gronwall, C., Guaita, L., Hagen, A., Koekemoer, A., Kurczynski, P., Newman, J.A., Padilla, N., "To Stack or Not to Stack: Spectral Energy Distribution Properties of Lya-Emitting Galaxies at z=2.1" 2014, *Ap. J.*, **783,** 26

Feldmeier, J.J., Hagen, A., Ciardullo, R., Gronwall, C., Gawiser, E., Guaita, L., Hagen, L., Bond, N., Acquaviva, V., Blanc, G., Orsi, A., Kurczynski, P., "Searching for Neutral Hydrogen Halos around $z \sim 2.1$ and $z \sim 3.1$ Lyα Emitting Galaxies" 2013, *Ap. J.*, **776,** 75

Mihos, J.C., Harding, P., Rudick, C., & **Feldmeier**, J.J., "Stellar Populations in the Outer Halo of the Massive Elliptical M49" 2013, *Ap. J.*, **764,** 20

Mihos, J.C., Harding, P., Spengler, C., Rudick, C. & **Feldmeier**, J.J., "The Extended

Optical Disk of M101" 2013, *Ap. J.*, **762,** 82

Palladino, L.E., Holley-Bockelmann, K., Morrison, H.L., Durrell, P.R., Ciardullo, **Feldmeier**, J.J., Wade, R.A., Kirkpatrick, J.D., Lowrance, P., " Identifying High Metallicity M Giants at Intragroup Distances with Sloan Digital Sky Survey" 2012, *A. J.*, **143,** 128

Ciardullo, R., Gronwall, C., Wolf†, C., McCathran, E.†, Bond, N.A., Gawiser, E., Guaita, L., **Feldmeier**, J.J., Treister, E., Padilla, N., Francke, H., Matkovic, A., Altmann, M., Herrerra, D., " The Evolution of Ly-alpha Emitting Galaxies Between z = 2.1 and z = 3.1" 2012, *Ap. J.*, **744,** 110

Gronwall, C., Bond, N.A., Ciardullo, R., Gawiser, E., Altmann, M., Blanc, G.A., **Feldmeier**, J.J., "The Rest-frame Ultraviolet Light Profile Shapes of Lyman-alpha Emitting Galaxies at z = 3.1" 2011, *Ap. J.*, **743,** 9

Feldmeier, J.J., Howell, S.B., Sherry, W., von Braun, K., Everett, M.E., Ciardi, D.R., Harding, P., Mihos, J.C., Rudick, C.S., Lee, T.H., Kutsko†, R.M., van Belle, G.T., "The Burrell-Optical-Kepler-Survey(BOKS) I: Survey Description and Initial Results" 2011, *A. J.*, **142,** 2

Howell, S.B, Rowe, J.F., Sherry, W., von Braun, K., Ciardi, D.R., Bryson, S.T., **Feldmeier**, J.J., Horch, E., van Belle, G., "Kepler Observations of Three Pre-Launch Exo-Planet Candidates: Discovery of Two Eclipsing Binaries and a New Exo-Planet" 2010, *Ap. J.*, **725,** 1633

Rudick, C.S., Mihos, J.C., Harding, P., **Feldmeier**, J.J., Janowiecki, S., & Morrison, H.L., "B-V Colors of the Diffuse Light in the Virgo Cluster Core" 2010, *Ap. J.*, **720,** 569

Bond, N.A., **Feldmeier**, J.J., Matkovic, A., Gronwall, C., Ciardullo, R., & Gawiser, E., "Evidence for Spatially Compact Lyman Alpha Emission in z=3.1 Lyman-Alpha-Emitting Galaxies" 2010, *Ap. J. (Letters)*, **716,** L200

Janowiecki, S., Mihos, J.C., Harding, P., **Feldmeier**, J.J., Rudick, C., Morrison, H. "Diffuse Tidal Structures in the Halos of Virgo Ellipticals" 2010, *Ap. J.*, **715,** 972

Guaita, L., Gawiser, E., Padilla, N., Francke, H., Bond, N. A., Gronwall, C., Ciardullo, R., **Feldmeier**, J.J., Sinawa, S., Blanc, G. A., Virani, S. "Lyman-Alpha-Emitting Galaxies at z = 2.1 in ECDF-S: Building Blocks of Typical Present-day Galaxies?" 2010, *Ap. J.*, **714,** 255

Doherty, M., Arnaboldi, M., Das, P.,Gerhard, O., Aguerri, J.A.L., Ciardullo, R., **Feldmeier**, J.J., Freeman, K.C., Jacoby, G.H., Murante, G. "The Edge of the M87 Halo and Kinematics of the Diffuse Light in the Virgo Cluster Core" 2009, *A.&A.*, **502,** 771

Mihos, J.C., Janowiecki, S., **Feldmeier**, J.J., Harding, P. & Morrison, H.L. "The Connection Between Diffuse Light and Intracluster Planetary Nebulae in the Virgo Cluster"

2009, *Ap. J.*, **698,** 1879

Kenney, J.D.P, Tal, T., Crowl, H., **Feldmeier**, J.J. & Jacoby, G.H. "A Spectacular Hα Complex in Virgo: Evidence for a Collision Between M86 and NGC 4438 and Implications for the Collisional ISM Heating of Ellipticals" 2008, *Ap. J. (Letters)*, **687,** 69

Herrmann, K.A., Ciardullo, R., **Feldmeier**, J.J. & Vinciguerra, M. "Planetary Nebulae in Face-On Spiral Galaxies I. Planetary Nebulae Photometry and Distances" 2008, *Ap. J.*, **683,** 630

Arnaboldi, M., Doherty, M., Gerhard, O., Ciardullo, R., Aguerri, J.A.L., **Feldmeier**, J.J., Freeman, K.C., & Jacoby, G.H. "Expansion Velocities and Core Masses of Bright Planetary Nebulae in the Virgo Cluster" 2008, *Ap. J. (Letters)*, **674,** 17

Gawiser, E., Francke, H., Lai, K., Schwanski, K., Gronwall, C., Ciardullo, R., Quadri, R., Orsi, A., Barrientos, F., Blanc, G.A., Fazio, G., **Feldmeier**, J.J., Huang, J., Infante, L., Lira, P., Padilla, N., Treister, E., Urry, C.M., van Dokkum, P.G., Virani, S.N. "Lyα-Emitting Galaxies at z=3.1: L* Progenitors in the Act of Formation" 2007, *Ap. J. (Letters)*, **671,** 278

Gronwall, C., Ciardullo, R., Hickey, T., Gawiser, E., **Feldmeier**, J.J., van Dokkum, P., & Herrera, D. "The Luminosity Function of Lyα Galaxies at z = 3.1 in the Extended Chandra Deep Field South" 2007, *Ap. J.*, **667,** 79

Feldmeier, J.J., Jacoby, G.H., & Phillips, M.M. "Calibrating Type Ia Supernovae using the Planetary Nebula Luminosity Function I. Initial Results" 2007, *Ap. J.*, **657,** 76

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. "The Metallicity Distribution of Intracluster Stars in Virgo" 2007, *Ap. J.*, **656,** 756

Durrell, P.R., Williams, B.F., Ciardullo, R., **Feldmeier**, J.J., von Hippel, T., Sigurdsson, S., Jacoby, G.H., Ferguson, H.C., Tanvir, N.R., Arnaboldi, M., Gerhard, O., Aguerri, J.A.L., Freeman, K., & Vinciguerra, M. "The Resolved Stellar Populations of a Dwarf Spheroidal Galaxy in the Virgo Cluster" 2007, *Ap. J.*, **656,** 746

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. "Virgo's Intracluster Globular Clusters as seen by the Advanced Camera for Surveys" 2007, *Ap. J.*, **654,** 835

Gawiser, E., van Dokkum, P.G., Gronwall, C., Ciardullo, R., Blanc, G., Castander, F.J., **Feldmeier**, J.J., Francke, H., Franx, M., Habberzetl, L., Herrera, D., Hickey, T., Infante, L., Lira, P., Maza, J., Quadri, R., Richardson, A., Schawinski, K., Schirmer, M.,

Taylor, E.N., Treister, E., Urry, C.M., Virani, S.N. "The Physical Nature of Lyman Alpha Emitting Galaxies at $z = 3.1$" 2006, *Ap. J. (Letters)*, **642,** 13

Mihos, J.C., Harding, P., **Feldmeier**, J.J., & Morrison, H.L. "Diffuse Light in the Virgo Cluster" 2005, *Ap. J. (Letters)*, **631,** 41

Ciardullo, R., Sigurdsson, S., **Feldmeier**, J.J., & Jacoby, G.H., "The Progenitors of the Brightest Planetary Nebulae" 2005, *Ap. J.*, **629,** 499

Feldmeier, J.J., Ciardullo, R., Jacoby, G.H., Durrell, P.R. "Intracluster Planetary Nebulae in the Virgo Cluster III: Luminosity of the Intracluster Light and Tests of the Spatial Distribution" 2004, *Ap. J.*, **615,** 196

Ciardullo, R., Durrell, P.R., Laychak, M.B., Herrmann, K.A., Moody, K., Jacoby, G.H., & **Feldmeier**, J.J. "The Planetary Nebula System of M33" 2004, *Ap. J.*, **614,** 167

Feldmeier, J.J., Mihos, J.C., Morrison, H.L., Harding, P., Kaib†, N., & Dubinski, J. "Deep CCD Surface Photometry of Galaxy Clusters II: Studies of Intracluster light in non-cD clusters" 2004, *Ap. J.*, **609,** 617

Immler, S., Brandt, W.N., Vignali, C., Bauer, F.E., Crenshaw, D.M., **Feldmeier**, J.J., & Kraemer, S.B. "Probing the complex and variable X-ray absorption of Markarian 6 with XMM-Newton" 2003, *A. J.*, **126,** 153

Feldmeier, J.J., Ciardullo, R., Jacoby, G.H., Durrell, P.R. "Intracluster Planetary Nebulae in the Virgo Cluster II. Imaging Catalog" 2003, *Ap. J. Suppl.*, **145,** 65

Durrell, P.R., Mihos, J.C., **Feldmeier**, J.J., Jacoby, G.H. & Ciardullo, R. "Kinematics of Planetary Nebulae in M51's Tidal Debris" 2003, *Ap. J.*, **582,** 170

Jacoby, G.H., **Feldmeier**, J.J., Claver, C., Garnavich, P.M., Noriega-Crespo, A., Bond, H.E., & Quinn, J. "Confirmation of SBS 1150+599A As An Extremely Metal-Poor Planetary Nebula" 2002, *A. J.*, **124,** 3340

Ciardullo, R., **Feldmeier**, J.J., Jacoby, G.H, Kuzio†, R., Laychak, M.B., Durrell, P.R. "Planetary Nebulae As Standard Candles. XII. Connecting the Population I and Population II Distance Scales" 2002, *Ap. J.*, **577,** 31

Feldmeier, J.J., Mihos, J.C., Morrison, H.L., Rodney, S.A., Harding, P. "Deep CCD Surface Photometry of Galaxy Clusters I: Methods and Initial Studies of Intracluster Starlight" 2002, *Ap. J.*, **575,** 779

Durrell, P.R., Ciardullo, R., **Feldmeier**, J.J., Jacoby, G.H., & Sigurdsson, S. "Intracluster Red Giant Stars in the Virgo Cluster" 2002, *Ap. J.*, **570,** 119

Ciardullo, R., **Feldmeier**, J.J.,Krelove†, K., Bartlett, R., Jacoby, G.H., & Gronwall, C.

"A Measurement of the Density of Strong Emission Line Galaxies at $z = 3.13$ and their effect on [O III] λ5007 Surveys for Intracluster Stars" 2002, *Ap. J.*, **566,** 784

Arnaboldi, M., Aguerri, J.A.L., Napolitano, N.R., Gerhard, O., Freeman, K.C., **Feldmeier**, J.J., Capaccioli, M., Kudritzki, R.-P., Méndez, R.H. "Intracluster Planetary Nebulae in Virgo: Photometric selection, spectroscopic validation and cluster depth" 2002, *A. J.*, **123,** 760

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. "Discovery of 9 Ly α emitters at redshift $\sim$ 3.1 using narrow-band imaging and VLT spectroscopy" 2000, *Ap. J.*, **536,** 19

Feldmeier, J.J., Brandt, W.N., Elvis, M., Fabian, A.C., Iwasawa, K. & Mathur, S. "Heavy and Complex X-ray Absorption Towards the Nucleus of Markarian 6." 1999, *Ap. J.*, **510,** 167

Feldmeier, J.J., Ciardullo, R., & Jacoby, G.H. "Intracluster Planetary Nebulae in the Virgo Cluster I. Initial Results." 1998, *Ap. J.*, **503,** 109

Ciardullo, R., Jacoby, G.H., **Feldmeier**, J.J., & Bartlett, R. "The Planetary Nebula Luminosity Function of M87 and the Intracluster Stars of Virgo." 1998, *Ap. J.*, **492,** 62

Feldmeier, J.J., Ciardullo, R., & Jacoby, G.H. "Planetary nebulae as standard candles XI. Tests using spiral galaxies." 1997, *Ap. J.*, **479,** 231

Feldmeier, J.J., Ciardullo, R., & Jacoby, G.H., "The Planetary Nebula Distance to M101." 1996, *Ap. J. (Letters)*, **461,** L25

Hough, D.H., Readhead, A.C., Wood, D.A., & **Feldmeier**, J.J., "Three-epoch VLBI observations of the nucleus in the lobe-dominated quasar 3C334." 1992, *Ap. J.*, **393,** 81

Conference Proceedings:

Feldmeier, J.J. 2006, "Intracluster Planetary Nebulae" *IAU Symposium No. 234 Planetary Nebulae in Our Galaxy and Beyond*, Waikoloa, Hawaii April 3 - 7, 2006 ed. M.J. Barlow & R.H. Méndez, p. 33 (Cambridge University Press) - invited review

Ciardullo, R., Sigurdsson, S., **Feldmeier**, J.J. & Jacoby, G.H. 2005, "The Progenitors of the Brightest Planetary Nebulae" *Planetary Nebulae as Astronomical Tools*, Gdansk Poland, 2005, vol 804, p. 292

Feldmeier, J.J. 2004, "Intracluster Planetary Nebulae as Probes of Intracluster Starlight " *Planetary Nebulae beyond the Milky Way, Garching (Germany), May 19-21, 2004* ed.

J.R. Walsh, L. Stanghellini & N. Douglas (http://xxx.lanl.gov/abs/astro-ph/0407625) - invited review

Bhargavi, S.G., Rhoads, J., Perna, R., **Feldmeier**, J.J., & Grenier, J. 2003, "Searching for GRB remnants in nearby galaxies" *Gamma Ray Burst Symposium: Thirty Years after the Discovery* (AIP, http://xxx.lanl.gov/abs/astro-ph/0312400)

Feldmeier, J.J., Mihos, J.C., Morrison, H.L., Harding, P., & Kaib†, N. 2003, "Using Intracluster Light to Study Cluster Evolution" *Carnegie Observatories Astrophysics Series, Vol. 3: Clusters of Galaxies: Probes of Cosmological Structure and Galaxy Evolution,* ed. J. S. Mulchaey, A. Dressler, and A. Oemler (Pasadena: Carnegie Observatories, http://www.ociw.edu/ociw/symposia/series/symposium3/proceedings.html)

Feldmeier, J.J. 2002, "Intracluster Planetary Nebulae" *IAU Symposium No. 209 Planetary Nebulae: Their Evolution and Role in the Universe*, Canberra, Australia November 19 - 23, 2001 - invited review

Feldmeier, J.J., Durrell, P.R., Ciardullo, R., & Jacoby, G.H. 2002, "A Search for Intragroup Planetary Nebulae in the M81 Group" *IAU Symposium No. 209 Planetary Nebulae: Their Evolution and Role in the Universe*, Canberra, Australia November 19 - 23, 2001

Feldmeier, J.J., Mihos, J.C., Durrell, P.R., Ciardullo, R., & Jacoby, G.H. 2002, "Kinematics of Planetary Nebulae in M51's Tidal Tail" *IAU Symposium No. 209 Planetary Nebulae: Their Evolution and Role in the Universe*, Canberra, Australia November 19 - 23, 2001

Freeman, K.C., Capaccioli, M., Ciardullo, R., **Feldmeier**, J.J., Ford, H.C., Gerhard, O., Kudritzki, R.-P, Jacoby, G.H., Méndez, R.H., Sharples, R. 2000, "Intracluster Planetary Nebulae in the Virgo cluster," *A.S.P. Conference Series #197, Galaxy Dynamics: from the Early Universe to the Present,* ed. F. Combes, G.A. Mamon, & V. Charmandaris, (San Francisco: Astronomical Society of the Pacific). p. 389

Jacoby, G.H., Ciardullo, R., & **Feldmeier**, J.J. 1998, "Future Directions for the Planetary Nebula Luminosity Function," *A.S.P. Conference Series # 167, Harmonizing Cosmic Distance Scales in a Post-Hipparcos Era,* ed. D. Egret & A. Heck, (San Francisco: Astronomical Society of the Pacific), p. 175

Feldmeier, J.J., Ciardullo, R., Jacoby G.H., & Bartlett, R. 1998, "Intracluster Stars and the Galactic Halos of Virgo," *A.S.P. Conference Series # 136, Galactic Halos: A UC Santa Cruz Workshop,* ed. D. Zaritsky, (San Francisco: Astronomical Society of the Pacific), p. 87

Abstracts and Circulars:

Feldmeier, J.J., Hagen, A., Ciardullo, R., Gawiser, E.J., Gronwall, C. & MUSYC Collaboration 2014, "Further Studies of Lyman-alpha Galaxy Halos in MUSYC-LAE Fields" American Astronomical Society Meeting Abstracts #223, #246.43

Hay, J., Ciardullo, R., **Feldmeier**, J.J., Gronwall, C., Hagen, A., & MUSYC Collaboration 2014, "Constraints on Lyα Blob Number Densities at 2.1 and 3.1" American Astronomical Society Meeting Abstracts #223, #246.40

Gronwall, C., Matkovic, A., Ciardullo, R., **Feldmeier**, J.J., Hay, J., & MUSYC Collaboration 2014, "Cosmic Variance in the Physical Properties of Ly-alpha Emitting Galaxies at $2 < z < 3$" American Astronomical Society Meeting Abstracts #223, #246.39

Gronwall, C., Matkovic, A., Ciardullo, R., **Feldmeier**, J.J., Hay, J., & MUSYC Collaboration 2012, "Cosmic Variance in the Physical Properties of Ly-alpha Emitting Galaxies at $2 < z < 3$" American Astronomical Society Meeting Abstracts #220, #429.06

Hagen, A., **Feldmeier**, J.J., Ciardullo, R., Gronwall, C., & MUSYC Collaboration 2012, "A Search for Diffuse Ly-alpha Emitting Halos around $z \sim 2.1$ and $z \sim 3.1$ Ly-alpha Emitting Galaxies" American Astronomical Society Meeting Abstracts #220, #429.05

Hagen, A., Ciardullo, R., **Feldmeier**, J.J., Gronwall, C., & MUSYC Team 2012, "A Search For Lyman-alpha Halos Around Lyman-alpha Emitters At Z=2 And Z=3" American Astronomical Society Meeting Abstracts, 219, #441.14

Feldmeier, J.J., Downing, S., Mihos, J. C., Harding P., & Morrison, H. 2011, "Searching for Intragroup Light in Multiple Galaxy Groups" American Astronomical Society Meeting Abstracts, 217, #149.25

Durrell, P. R., Accetta, K., **Feldmeier**, J.J., Mihos, J. C., Ciardullo, R., Peng, E. W., & Members of the NGVS team 2010, "Searching for Intracluster Globular Clusters in the Virgo Cluster" American Astronomical Society Meeting Abstracts, 215, #478.14

Mihos, C., Janowiecki, S., Harding, P., **Feldmeier**, J.J., Rudick, C., & Morrison, H. 2010, "Diffuse Stellar Substructure in Virgo Ellipticals" American Astronomical Society Meeting Abstracts, 215, #458.11

Kaplan, E., Jacoby, G., Hwang, H., Lee, M., Davies, J., Herrmann, K., Fullton, L., Ciardullo, R., De Marco, O., **Feldmeier**, J.J. 2010, "A Search For Planetary Nebulae in the Globular Cluster Population of M31" American Astronomical Society Meeting Abstracts, 215, #454.27

Feldmeier, J.J., Brissenden, G., Robinson, P. E., Sudol, J.J., & CATS 2010, "The CAE/CATS Guest Moderator Program: Fostering Better Astronomy Education Through Professional Discussions" American Astronomical Society Meeting Abstracts, 215, #447.10

Feldmeier, J.J., Downing†, S. W., Mihos, J. C., Harding, P., & Morrison, H. L. 2010, "Searching For Intragroup Light in Normal and Compact Galaxy Groups" American Astronomical Society Meeting Abstracts, 215, #436.33

Howell, S. B., Sherry, W., **Feldmeier**, J.J., Ciardi, D., Rowe, J., Borucki, W. J., Batalha, N., & Kepler Team 2010, "Kepler Observations of Three Pre-Launch Exo-Planet Candidates" American Astronomical Society Meeting Abstracts, 215, #420.01

Wolf, C., Sinawa, S., Ciardullo, R., Gronwall, C., Guaita, L., Gawiser, E., Bond, N., **Feldmeier**, J.J., Padilla, N., MUSYC Collaboration 2010, "Luminosity Functions and Photometric Properties of Lyman-alpha Emitters at $2 < z < 3$" American Astronomical Society Meeting Abstracts 215, #410.10

Gronwall, C., Bond, N. A., Gawiser, E., **Feldmeier**, J.J., Ciardullo, R., Matkovic, A., & MUSYC Collaboration 2010, "The Shapes of Lyman-alpha Emitting Galaxies at z=3.1" American Astronomical Society Meeting Abstracts, 215, #410.09

Gawiser, E., Guaita, L., Padilla, N., Francke, H., Bond, N.A., Gronwall, C., Ciardullo, R., Sinawa, S., **Feldmeier**, J.J., MUSYC Collaboration 2010, "Lyman Alpha-emitting Galaxies at $z = 2.1$: Characterizing the Progenitors of Typical Present-day Galaxies" American Astronomical Society Meeting Abstracts, 215, #307.03

Gawiser, E., Walker, J., Bond N., Gronwall, C., Ciardullo, R., Francke, H., Lira, P., Guaita, L., Padilla, N., **Feldmeier**, J.J. 2009, "Probing the Dark Matter-Galaxy Formation Connection with Lyman Alpha Emitting Galaxies" American Astronomical Society Meeting Abstracts, 213, #313.02

Gronwall, C., Ciardullo, R., Gawiser, E., Bond, N., Guaita, L., & **Feldmeier**, J.J., 2009, "Luminosity Functions and Photometric Properties of Lyman-alpha Emitters at $z = 3$" American Astronomical Society Meeting Abstracts, 213, #424.09

Rivera, F., Ganguly, R., **Feldmeier**, J.J. & Barlow, R. 2009, "A Catalog of [O III] 5007 Photometric Standards In The Virgo Cluster Region" American Astronomical Society Meeting Abstracts, 213, #473.06

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J.J., Urry, C.M., MUSYC Collaboration 2006, "The Nature of Lyman Alpha Emitters at z=3.1 in the MUSYC Survey" *Bull. AAS*, **38,** p. 1212

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Howell, S.B., **Feldmeier**, J.J., von Braun, K., Everett, M., Mihos, J.C., Harding, P., Knox, C., Sherry, W., Lee, T., Ciardi, D., Rudick, C., Proctor, M., van Belle, G. 2006, "Burrell-Optical-Kepler Survey (BOKS) II: Early Variability Results" *Bull. AAS*, **38,** p. 1127

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Jacoby, G. H., Kenney, J. D. P., Tal, T., Crowl, H. H., & **Feldmeier**, J.J. 2005, "Imaging and Spectroscopy of Large Scale H-α Filaments in M86" *Bull. AAS*, **37,** p. 1392

Mihos, C., Harding, P., **Feldmeier**, J.J., & Morrison, H. 2005, "Imaging Virgo's Diffuse Intracluster Light" *Bull. AAS*, **37,** p. 1449

Holley-Bockelmann, K., Sigurdsson, S., Ciardullo, R., **Feldmeier**, J.J., Mihos, C., & McBride, C. 2005, "Binary Black Hole Ejections of Intracluster Planetary Nebulae" AAS/Division of Dynamical Astronomy Meeting, 36,

Jacoby, G.H., Phillips, M., & **Feldmeier**, J.J. 2004, "Calibrating SN Type Ia in Early-Type Galaxies using the Planetary Nebulae Luminosity Function" *Bull. AAS*, **36,** p. 1460

Hickey, T., Gronwall, C., Ciardullo, R., **Feldmeier**, J.J., Gawiser, E., Herrera, D., MUSYC Collaboration 2004, "Lyα Emitters at z = 3.1 in the Extended CDF-S/GOODS-S Field" *Bull. AAS*, **36,** p. 1447

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Feldmeier, J.J., Mihos, J.C., Morrison, H.L., & Harding, P. 2004, "New results from an Intracluster Light Imaging Survey" *Bull. AAS*, **36,** p. 1591

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Durrell, P.R., Ciardullo, R., DeCesar, M.E., & **Feldmeier**, J.J. 2003, "Searching for Intergalactic Stars in the M81 Galaxy Group" *Bull. AAS*, **35,** p. 1287

Feldmeier, J.J., Mihos, J.C., Morrison, H.L., & Harding, P. 2003, "New results from an Intracluster Star Imaging Survey" *Bull. AAS*, **35,** p. 1282

Feldmeier, J.J., Ciardullo, R., Jacoby, G.H., & Durrell, P.R. 2003, "Intracluster Planetary Nebulae in Galaxy Clusters and Groups" IAU 25th General Assembly, Symposium 217, p. 24

Ciardullo, R., Mihos, J.C., **Feldmeier**, J.J., Durrell, P.R., & Sigurdsson, S. 2003, "The Systematics of Intracluster Starlight" IAU 25th General Assembly, Symposium 217, p. 31

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Feldmeier, J.J. Mihos, J.C., Morrison, H.L., Harding P., & McBride, C. 2003, "Results from a diffuse intracluster light survey" IAU 25th General Assembly, Symposium 217,

Durrell, P.R., Ciardullo, R., Laychak, M.B., Jacoby, G.H., **Feldmeier** J.J., & Moody, K. 2003, "The kinematics of M33's Disk Planetary Nebulae" *Bull. AAS*, **34,** p. 1116

Durrell, P.R., Mihos, J.C., **Feldmeier**, J.J., Jacoby, G.H., & Ciardullo, R. 2002, "Kinematics of Planetary Nebulae in M51's Tidal Tail" *J.R.A.S.C.*, **96,**

Laychak, M.B., Ciardullo, R., **Feldmeier**, J.J., & Jacoby G.H. 2002, "A Comparison Between Extragalactic Distances Derived From Cepheids, Planetary Nebulae, and Surface Brightness Fluctuations" *Bull. AAS*, **33,** p. 1518

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Durrell, P.R., Ciardullo, R., **Feldmeier**, J.J., Jacoby, G.H., Sigurdsson, S. 2001, "Intracluster Stars in the Virgo Cluster" *J.R.A.S.C.*, **95,** p. 141

Feldmeier, J.J. Mihos, J.C., Morrison, H.L., Rodney, S. & Harding P. 2001, "First results from an Intracluster Light Survey" *Bull. AAS*, **32,** p. 1579

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Krelove†, K., **Feldmeier**, J.J., Ciardullo, R., & P.R. Durrell 2001, "Intracluster Planetary Nebulae in the Fornax Cluster" *Bull. AAS*, **32,** p. 1580

Feldmeier, J.J. 2000, "A Search for Intracluster Planetary Nebulae in the Virgo Cluster" *Bull. AAS*, **31,** p. 1551

Krelove†, K., Ciardullo, R., **Feldmeier**, J.J., & Jacoby, G.H. 2000, "Setting a Limit on Contamination of Intracluster Star Surveys" *Bull. AAS*, **31,** p. 1493

Kuzio, R.E., Ciardullo, R., **Feldmeier**, J.J., & Jacoby, G.H. 2000, "Planetary Nebula Luminosity Function Distances to M 33, NGC 2403 and NGC 3627 and a Comparison to the Cepheid Distance Scale" *Bull. AAS*, **31,** p. 1391

Jacoby, G., Ciardullo, R., **Feldmeier**, J., Hinkle, K., & Joyce, R. 1999, "V4334 Sagittarii," *IAU Circ.* 7155.

Brandt, W.N., **Feldmeier**, J.J., Elvis, M., Mathur, S., Fabian, A.C., Iwasawa, K. 1999, "Heavy and Complex Absorption in Markarian 6: A View Through a Torus Atmosphere?" *Bull. AAS*, **30,** p. 1253.

Duric, N., Pannuti, T.G., Jones, L.V., Elston, R.J., Lacey, C.K., **Feldmeier**, J.J., Ciardullo, R., & Jacoby G.H. 1999, "The Unusual Properties of the H II Region SP-44 in

the Scd Galaxy NGC 2403," *Bull. AAS*, **30,** p. 1277.

Feldmeier, J.J., Ciardullo, R., & Jacoby, G.H. 1999, "Planetary Nebulae and the Intracluster Stars of Virgo," *Bull. AAS*, **30,** p. 1304.

Feldmeier, J.J., Ciardullo, R., & Jacoby, G.H. 1996, "Planetary Nebula Distances to the Spiral Galaxies M51, M96, and M101," *Bull. AAS*, **27,** p. 1293.

Ciardullo, R., Jacoby, G.H., & **Feldmeier**, J.J. 1995, "Constraining the Stellar Populations of Elliptical Galaxies with Planetary Nebulae," *Bull. AAS*, **26,** p. 1400.

Research Undergraduate Students Supervised:

Supervised Amanda Lewis, YSU Undergraduate, Spring 2011 - Summer 2012. Amanda assisted in astronomy education research, studying behavioral feedback for students. Amanda received a Masters degree in philosophy at Kent State University.

Supervised Michael Polewan, OSU Undergraduate, Summer 2009. Michael reduced and analyzed an interesting emission-line object found accidentally in a survey of the SMC. Michael is a statistician at American Greetings in Cleveland, Ohio.

Supervised Shane Downing, YSU Undergraduate, Summer 2009 - Spring 2011. Shane looked for intracluster light in compact groups of galaxies. Shane currently works at Lord Corporation.

Supervised Daniel Nemergut, YSU Undergraduate, Spring 2009 - Summer 2010. Daniel calibrated [O III] emission-line standard stars for a planned wide field narrow-band survey. Daniel is currently a systems architect at Blue Acorn Corporation.

Supervised Deidra Pagnotta (née Nuss), YSU Undergraduate, Fall 2008 - Fall 2010. Deidra assisted in astronomy education research, studying the resistance of students to active learning techniques. Deidra is currently a music teacher at Ketchikan High School, in Ketchikan, Alaska.

Supervised Rebecca Gibson (née Kutsko), YSU undergraduate, Fall 2007 - Spring 2011. Rebecca searched for asteroids in the BOKS survey, and participated in the BOKS early survey, and has presented her research at Quest 2008 and 2009. Rebecca is currently a science teacher in Maryland.

Supervised Matthew Boser, YSU undergraduate, Spring 2007 - Summer 2007. Matthew assisted in astronomy education research, and has graduated YSU with a degree in Music Theory student at YSU.

Supervised Ashley Skalsky, YSU undergraduate, Fall 2006 - present. Ashley has presented research at Quest 2007 and 2008, and is studying extragalactic planetary nebulae in

external galaxies. Ashley received a Master of Science in Astronomy at Swinburne University, and is current an astronomy instructor at YSU.

Supervised Zachary Brown, YSU honors undergraduate, Fall 2006 - Fall 2007. Zach has presented research at Quest 2007, and has been involved in searching for extra-solar planets in the BOKS survey. Zachary graduated from law school at the University of Akron, and is currently a Real Estate Analyst at Citymark Captital

Supervised Stuart Robbins, CWRU undergraduate, Fall 2003 and Spring 2004, and assisted in searching for planetary nebulae in the M81 system. Stuart is currently a planetary geologist at Southwest Research Institute and a Research Scientist at the University of Colorado, Boulder.

Supervised Cameron McBride, CWRU undergraduate, Summer 2002. Cameron is currently a postdoctoral fellow at the Harvard-Smithsonian Center for Astrophysics.

Supervised Nathan Kaib, CWRU honor undergraduate, Spring 2002. Nathan is currently an assistant professor of astronomy at the University of Oklahoma.

Supervised Kara Krelove & Rachel Kuzio de Naray, two honors Penn State undergraduates, Summer & Fall 1999, Spring 2000. Kara received a masters degree in Geosciences in 2005 at Arizona State University and Rachel is currently an assistant professor of astronomy at Georgia State University.

Research mentor in the Penn State Upward Bound Math and Science program, Summer 1997. Supervised Than Nguyen, a high school student.

Teaching Publications and Teacher Training:

Workshop presenter in "Getting Started in Astronomy Education Research," organized by T. Slater and S. Slater, Center for Astronomy & Physics Education Research, University of Wyoming (8 hours) January 9, 2011.

Participant in the NASA Center for Astronomy Education workshop Improving the College Introductory Astronomy Survey Course for Non-Science Majors Through Active Engagement: A Tier I (Introductory) Workshop (16 hours) September 18-19, 2010.

Feldmeier, J.J., Brissenden, G., Robinson, P., Sudol, J., "The CAE/CATS Guest Moderator Program: Fostering Better Astronomy Education Through Professional Discussions" - published in *Cosmos in the Classroom 2010: A National Symposium on Teaching Astronomy for Non-science Majors* (Astronomy Society of the Pacific)

Durrell, P.R., **Feldmeier**, J.J., & Nuss†, D. 2010, "Student Feedback on Learner-Centered Astronomy Education" - published in *Cosmos in the Classroom 2010: A National Symposium on Teaching Astronomy for Non-science Majors* (Astronomy Society of the Pa-

cific)

Nuss†, D., **Feldmeier**, J.J., "Developing a Celestial Sphere Display for Lecture Tutorials for Introductory Astronomy" - published in *Cosmos in the Classroom 2010: A National Symposium on Teaching Astronomy for Non-science Majors* (Astronomy Society of the Pacific)

Feldmeier, J.J., Durrell, P.R., Boser†, M., Brown†, Z. 2007, "Applying Learner-Centered Methods to Introductory Astronomy Courses at Youngstown State University" - published in *Cosmos in the Classroom 2007: A National Symposium on Teaching Astronomy for Non-science Majors* (Astronomy Society of the Pacific)

Roelofsen, T.E.M., **Feldmeier**, J.J., Gorjian, V., Sepulveda, B., Sharma, E., Spuck, T., Wheeler, C. 2006, "Spitzer Space Telescope Research Program for Teachers and Students: Using Spitzer data in your classroom with (relatively) simple software" *Bull. AAS*, **38,** p. 1202

Participant in the NASA Center for Astronomy Education workshop Advanced Strategies for Creating a Learner-Centered Introductory Astronomy Course: A Teaching Excellence Workshop (16 hours) January 4-5, 2007

Durrell, P.R., Young, W., Pirko, R., Shanks, S.L., Neiheisel, J., Dean, M.E., Kotel, R., Schaefer, S., Morlan, R.., Wilson, A., **Feldmeier**, J.J. 2005, "Upgrading the Ward Beecher Planetarium for the 21st Century" *Bull. AAS*, **37,** p. 1264

Participant in the NASA Center for Astronomy Education workshop Learner-Centered Astronomy: A Teaching Excellence Workshop (16 hours) August 6-7, 2005

Teaching Assistant for Astronomical Methods & The Solar System (3 credit lecture class for astronomy majors), Astronomy of the distant universe (3 credit lecture course for astronomy majors), & Elementary Astronomy Laboratory (1-credit laboratory for non-majors)

Author of three labs for "Astronomy 11 Laboratory," edited by J. Harlow, Hayden-McNeill Publishing, Inc., 1996.

Outreach Activities:

Participated in the online astronomy education show entitled *Learning Space*, which was hosted by Dr. Nicole Gugliucci of Cosmoquest. Was on for one hour, May 22, 2015. Video is available on *YouTube* at `https://www.youtube.com/watch?v=7bE9F8cyYXE&index=8&list=PLuWLynK_pDVOQ3rDnBKJWqKzmkQEu3FkY`

Participated in the online astronomy outreach project *CosmoQuest 36-36 Fundraiser*, which was led by Dr. Pamela Gay (CosmoQuest). Was on one hour, April 27, 2014.

Video (hours 5-6) is available on *YouTube* at https://www.youtube.com/watch?v=kxuoES7vYdw

Participated in the online astronomy education show entitled *Learning Space*, which was hosted by Dr. Nicole Gugliucci and Georgia Bracey of Cosmoquest. Was on for one hour, October 30, 2013. Video is available on *YouTube* at http://www.youtube.com/watch?v=2SAI4B7psek

Participated in the online astronomy outreach project *CosmoQuest 24hr Hangout-a-thon*, which was led by Dr. Pamela Gay (CosmoQuest). Was on two hours, June 15-16, 2013. Video is available on *YouTube* at http://www.youtube.com/watch?v=joDtyj-vck0

Mentored Kaelyn Snyder in Astronomy Careers on Austintown Rotary Mentoring Day, April 15, 2013.

Mentored Michael Dercoli in job shadowing, February 12, 2013.

Executive Producer and writer for *Cosmic Castaways*, a 22 minute NSF funded, all-dome planetarium show concerning intracluster stars (http://cosmoquest.org/blog/scienceonthehalfsphere/). Show first presented to the general public on May 11, 2012. Final version of the show premiered on October 4, 2012. Flatscreen edition published to *YouTube* on June 13, 2013, which is available at http://www.youtube.com/watch?v=_8gobt4tfwg

Outreach in popular press, *The Jambar* - concerning *Cosmic Castaways*, October 2, 2012

Outreach in popular press, *The Jambar* - concerning *Cosmic Castaways*, April 11, 2012

Speaker, Longway Planetarium, April 17th, 2012. Talk Title: "Cosmic Castaways"

Speaker, Astroblast, Oil City Region Astronomical Society, September 24, 2011. Talk Title: "Lyman-alpha Galaxies - Looking for the Baby Milky Way"

Participant in mentoring program at Bristol High School, Fall 2010. Mentored Michael Baker.

Speaker, Allegheny Observatory Public Lecture Series, September 17, 2010. Talk Title: "Looking for Extrasolar Planets in the Kepler Field"

Speaker, United Purpose Student Organization, Trumbull Correctional Institution, February 23, 2010. Talk Title: "Extrasolar Planets"

Participant in E-mentoring program at Canfield Village Middle School, Spring 2010. Mentored Angela Pupino

Speaker, Astroblast, Oil City Region Astronomical Society, August 22, 2009. Talk Title:

"Exploring Galaxy Clusters"

Outreach in popular press, ESO Press Release, May 20, 2009 "Giant Galaxy Messier 87 finally sized up" - located at http://www.eso.org/public/news/eso0919/

Speaker, Ward Beecher Planetarium, March 20, 2009. Talk Title: "Einstein: Physicist, Philosopher, Humanitarian, Part 1"

Speaker, Ward Beecher Planetarium, November 7, 14, 21, 2008. Talk Title: "Of Space and Time"

Outreach in popular press, NOAO Press Release, October 7, 2008 "Big Galaxy Collisions Can Stunt Star Formation" - located at http://www.noao.edu/outreach/press/pr08/pr0807.html

Speaker, Astroblast, Oil City Region Astronomical Society, September 27, 2008. Talk Title: "Extrasolar Planets"

Speaker, Mahoning Valley Astronomical Society, OTAA Convention, August 2, 2008. Talk Title: "Science with 0.6m Burrell Schmidt: Intracluster Light and Extrasolar Planet Hunting"

Speaker, Ward Beecher Planetarium, March 29, 2008. Talk Title: "Extrasolar Planets"

Outreach in popular press, *The Jambar* - concerning Satellite USA 193, February 21st, 2008

Participant in the Exploring Careers through Electronic Liaisons (ExCEL) program at Boardman Middle School, Spring 2007. Mentored David Tamulonis, a middle school student in careers in astronomy.

Speaker, Ward Beecher Planetarium, March 23, 2007. Talk Title: "ASTRO 101: Stars Between the Galaxies"

Outreach in popular press, WKBN Channel 27, WYTV Channel 33 - August 24, 2006

Outreach in popular press, *Sky & Telescope* magazine - May 2006, p. 25

Outreach, talk at Canfield Rotary Club, April 14, 2006 - Tom Danko host - "Galaxy Crashes and the Hubble Space Telescope - or how to get your picture in the Vindicator"

Outreach in NOAO/NSO Newsletter 85, March 2006, page 48. - outreach concerning NASA-NOAO Spitzer Teacher's projects

Outreach in popular press, Mahoning Valley *Tribune Chronicle*, February 10, 2006 - outreach and press release concerning Virgo Intracluster Survey results

Outreach in popular press, Youngstown *Vindicator*, Akron *Beacon Journal*, Feb 9, 2006 -

outreach and press release concerning Virgo Intracluster Survey results

Outreach to high school science teachers as part of "NASA Spitzer Space Telescope Observing Program for Students and Teachers" - see *http://www.spitzer.caltech.edu/Media/releases/ssc2005-05/release.shtml*, November 2004 - Jan 2005

Outreach in NOAO/NSO Newsletter 80, December 2004, page 3.

Taught a seminar course in Astronomy Career Development to Case Undergraduates - Spring 2004

Outreach in popular press, WTAM-1100 Cleveland, May 15, 2003 - outreach on lunar eclipse

Outreach in popular press, *Sky & Telescope* magazine - May 2003, p. 19

Outreach, talk at Cleveland Astronomical Society - March 2003, "Zwicky's final challenge"

Instructor, Cleveland Learning Cooperative, Fall 2001, Spring 2002, Fall 2002, Spring 2003, & Fall 2003 - taught astronomy and physics courses to middle-school and high-school age homeschoolers.

Outreach in popular press, press release at AAS meeting 193, January 1999, "Trail of Dying Green Stars Leads to Millions of Stars Hiding in Galaxy Clusters."

Lecturer in Penn State Inservice Workshops in Astronomy - June 1998, June 1999

Judge in Pennsylvania Junior Academy of Science state competition - May 1998

Outreach in popular press, *Astronomy* magazine - August 1996 & May 1998

Outreach in popular press, *Sky & Telescope* magazine - July 1996

Popular outreach to elementary school-age children as part of Penn State's astronomy outreach program

Teaching Assignments

Semester	Course Title	Sections	Enrollment	Percentage Approval
Spring 2016[1]	Descriptive Astronomy	3	89, 43, 31	87%, 100%, 100%
Fall 2015	Descriptive Astronomy	4	64, 68, 57, 30	
Summer 2014	Descriptive Astronomy	1	13	
Spring 2014	Undergraduate Research	1	1	
Spring 2014	Descriptive Astronomy	1	37	80%
Fall 2013	Astrophysics I	1	3	
Fall 2013	Descriptive Astronomy	3	112, 70, 37	
Spring 2013	Observational Techniques II	1	1	
Spring 2013	Descriptive Astronomy	2	112, 29	
Fall 2012	Observational Techniques I	1	5	
Fall 2012	Descriptive Astronomy	2	149, 47	94%, 91%
Spring 2012	Descriptive Astronomy	2	113, 62	89%, 84%
Fall 2011	Descriptive Astronomy	3	158, 158, 74	79%, 92%, 91%
Fall 2010	Descriptive Astronomy	3	158, 158, 110	84%, 99%, 86%
Spring 2010	Undergraduate Research	1	2	
Spring 2010	Observational Techniques II	1	3	
Fall 2009	Observational Techniques I	1	3	
Fall 2009	Descriptive Astronomy	3	156, 154, 144	85%, 93%, 93%
Spring 2009	Undergraduate Research	1	1	
Fall 2008	Undergraduate Research	1	3	
Fall 2008	Descriptive Astronomy	3	155, 135, 29	95%, 99%, 99%
Spring 2008	Observational Techniques II	1	3	
Fall 2007	Descriptive Astronomy	2	156, 71	85%, 93%, 93%
Fall 2007	Observational Techniques I	1	7	
Spring 2007	Special Topics in Physics	1	1	
Spring 2007	Descriptive Astronomy	3	152, 112, 55	92%, 84%, 81%
Fall 2006	Descriptive Astronomy	3	157, 150, 52	85%, 88%, 88%
Spring 2006	Descriptive Astronomy	1	158	56%
Spring 2006	Observational Techniques II	1	3	

Excerpts from 2006 - 2016 anonymous student evaluations:

"...I loved this class. He is my favorite professor this semester. He is engaging and it made it easy to learn and have fun..."

"...I am graduating this semester and this has been one of my favorite classes throughout

[1]Approval ratings come from new online course evaluation system. Previous ratings were done with paper forms, and had a much higher response rate.

my time here at YSU. Dr. F. was a great professor and gives ample opportunities for grade improvement. It has led me to understand the subject matter more clearly and I even learned information I never knew before. I highly recommend this class to be taken because it has truly made a difference in my life..."

"...Very knowledgable teacher. Enjoyed the class very much. The course is challenging enough that you learn the material, but not so hard that it is only possible for a few people to pass..."

"...One of the first teachers I've had in a while that actually wants me to learn and has taught me things that I know aren't going to fall out of my head afterwards..."

"...The instructor is very knowledgable and keeps the class interesting. There are a lot of questions that arise when it comes to this subject, and the instructor did a great job answering them. Very fair on tests and material that students can learn from..."

"...This class was a lot of fun and it was equally challenging because of Dr. Feldmeier. This was my favorite class in my whole semester. He made the material interesting and presented it in a way that was easy to understand..."

"...Everything was great. The instructor had extensive knowledge of the subject matter and made the course fun and interesting. I feel like I learned a ton of material and enjoyed doing so, which I must say is rare for me in the sciences..."

"...extremely willing to help. Truly wants students to learn (not memorize) and succeed in the class. Can tell he really cares. Extremely knowledgeable on subject matter..."

"...Feldmeier is very enthusiastic about what he teaches. He makes class exciting and is always willing to answer any and all questions. I would take another course from this instructor..."

"...The interactivity was nice. I like the way he catered to every learning style. I like that he actually tried & cares about his students & helping them learn..."

"...Dr. Feldmeier is an excellent instructor blending humor with practical knowledge useful in succeeding in this course..."

"...this was one of my favorite classes. Dr. Feldmeier knew what he was talking about and took great care to explain difficult subjects in a way to make them understandable. He was funny and enjoyable and it was obvious he loves this subject..."

"...One of my favorite classes I have taken. Astronomy can be a very difficult subject but it is made entertaining and easy to understand. Great mixture of lecture and visuals. Makes me want to come in and learn more about it..."

"...I don't give out perfects to many teachers. However, you earned it. I took your class once before (I passed) and took it again due me wanting an easy class that was fun. To my amusement, the class was more evolved! And only three years later!..."

"...Dr. Feldmeier has a variety of extremely effective teaching methods. I retained the information he taught in his class more than any other class I've taken. His class something for everyone, especially visual learners. The folded color coated ABCD answer sheet is a brilliant low tech way to establish audience response..."

"...Dr. Feldmeier really knows his stuff. He is very enjoyable and encouraging. I feel I learned a lot in his class. The class was very well structured. He really does want you to succeed! I really would love it if he teached other subjects too!..."

"...I enjoyed this course very much. It's one of the only gen ed. classes I took that I felt the teacher was an expert on the subject and really taught relevant material. It also was one of the only gen. ed. classes that taught me something I thought was relevant to me and was something about which we all should be educated. This was the only class this semester that I did not sit in the back and read a book to avoid wasting my time..."

"...It was so refreshing and exciting as a future educator to see a teacher who knows how to sincerely make a liberal arts education beneficial and necessary. You did not expect us all to become astronomers (that is your job and it is clear you are phenomenal at it); but at the same time you taught us substantial material at our level and never expected less than our best effort on a daily basis..."

Courses Developed and Course Descriptions:

Descriptive Astronomy (ASTRO 1504): A non-mathematical survey course of astronomy for non-science majors. Uses Peer Instruction and Lecture Tutorials from the Conceptual Astronomy and Physics Education Research group and the Center for Astronomy Education to enhance student learning, as well as other interactive techniques. (Taught in Spring 2006, Fall 2006, Spring 2007, Fall 2007, Fall 2008, Fall 2009, Fall 2010, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014, Summer 2014, Fall 2015, Spring 2016)

Astrophysics I (ASTRO 3711): An upper-division course concerning basic astrophysics. Topics include Kepler's laws, stellar atmospheres, stellar structure and stellar evolution. (Taught in Fall 2013)

Observational Techniques I (ASTRO 4811): An upper-division course concerning the observation and reduction of astronomical data. Topics include astrometry, telescopes, optics, broad-band imaging and their applications to astronomical problems. (Taught in Fall 2007, Fall 2009, Fall 2012)

Observational Techniques II (ASTRO 4812): An upper-division course concerning the observation and reduction of astronomical data. Topics include narrow-band optical imaging, surface photometry, optical spectroscopy, and X-ray astronomy. (Taught in Spring 2006, Spring 2008, Spring 2010, Spring 2013)

Undergraduate Astronomy Research (ASTRO 4815): An upper-division course for independent undergraduate research, usually ending in a capstone project for seniors. (Taught in Fall 2008, Spring 2009, Spring 2010, Spring 2014)

Special Topics in Physics (PHYS 5850): An upper-division course for students engaging in physics and astronomy research. (Taught in Spring 2007)