Curriculum Vitae: Dawn M. Gelino

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Professional Preparation:

Rensselaer Polytechnic Institute	Physics	B.S. Magna Cum Laude 1996
New Mexico State University	Astronomy	M.S. 1999, Ph. D. 2001
University of California, San Diego	Astrophysics	2001-2004

Appointments & Awards:

Center for Astrophysics and Space Sciences Postdoctoral Fellow, 2001–Present
Advisor for NSF Research Experience for Undergraduates student, 2003
Zia Award for outstanding research by a graduate student, 2001
American Association of University Women American Fellowship, 2000–2001
President of the Astronomy Graduate Student Organization, NMSU, 2000–2001
Sigma Xi Scientific Research Society Grants-in-Aid of Research Award, 1999 & 2000
Head Teaching Assistant, NMSU, 1999–2000
Center for Higher Education Minority Fellowship, 1997, 1998, 1999, & 2000
New Mexico Space Grant Consortium Graduate Scholarship, 1998, 1999, & 2000
Pegasus Award for outstanding teaching by a graduate student, 1999
New Mexico Space Grant Consortium Research Enhancement Award, 1997
Graduate Student Teaching Instructor, NMSU, 1996–2000
Undergraduate Teaching Assistant, RPI, 1994–1996
Undergraduate Researcher, RPI, 1994–1996
NSF Research Experience for Undergraduates student, 1995
Emily Roebling Scholarship, 1992–1996
Bausch and Lomb Science Award, 1992

Invited Talks:

Arizona State University
Cerro Tololo Inter-American Observatory
Goddard Space Flight Center
Rensselaer Polytechnic Institute
San Diego State University
University of California, San Diego

Memberships:

The American Astronomical Society (AAS)
The High Energy Astrophysics Division of the AAS
Sigma Xi Research Society
Sigma Pi Sigma
The American Association of University Women

Major Telescopes Used:
Keck I & II (10 m) – Keck Observatory; Mauna Kea, HI
Very Large Telescope (8.2 m) – Paranal Observatory; Paranal, Chile
Victor M. Blanco (4 m) – Cerro Tololo Inter-American Observatory; Cerro Tololo, Chile
KPNO (4 m & 2.1 m) – Kitt Peak National Observatory; Tuscon, AZ
Astrophysical Research Consortium (3.5 m) – Apache Point Observatory; Cloudcroft, NM
Shane (3 m) – Lick Observatory; San Jose, CA
Hubble Space Telescope
Chandra X-Ray Observatory

Research Experience:
September 2001 - Present: University of California San Diego (CASS Postdoctoral Fellow) - Infrared Astronomy, Soft X-ray Transients Observations and Light Curve Modeling, Damped Lyman Alpha System Identification
January 1999 - September 2001: New Mexico State University - Infrared Astronomy, Soft X-ray Transients Observations and Light Curve Modeling
August 1997 - January 1999: New Mexico State University - Infrared Astronomy, Modeling Dust Shells Surrounding Classical Novae, Low Mass X-Ray Binary Systems
May 1997 - August 1997: New Mexico State University - Modeling Planetary Atmospheres, Brown Dwarfs, Extrasolar Planets
August 1996 - May 1997: New Mexico State University - Infrared Astronomy, X-Ray Binary Systems, High Energy Astrophysics, X-Ray Variability of Scorpius X-1
January 1994 - August 1996: Rensselaer Polytechnic Institute - Infrared Astronomy, Young Stellar Objects, Dust
May 1995 - August 1995: NSF funded Research Experience for Undergraduates at Rensselaer Polytechnic Institute

Teaching Experience:
June 2003 - August 2003: National Science Foundation Research Experience for Undergraduates Advisor
January 1999 - August 2000: New Mexico State University Department of Astronomy Head Teaching Assistant
August 1996 - August 2000: New Mexico State University Department of Astronomy - Freshman through Senior level classes, teaching introductory laboratory as well as upper level lecture classes
January 1995 - May 1996: Rensselaer Polytechnic Institute Department of Physics - Freshman through Senior level classes, teaching through interactive learning techniques

Publications

(D.M. Leeber = D.M. Gelino)

Refereed:

"The Low Quiescent X-Ray Luminosity of the Neutron Star Transient XTE J2123-058", Tomsick, J.A., Gelino, D.M., Halpern, J., Kaaret, P. 2004, ApJ, submitted

"J0422+32: The Lowest Mass Black Hole?", Gelino, D.M., Harrison, T.E. 2003, ApJ, in Press

"An Astrometric Calibration of the M_v – P_{orb} Relationship for Cataclysmic Variables based on HST Fine Guidance Sensor Parallaxes", Harrison, T.E., Johnson, J.J., McArthur, B.E., Benedict, G.F., Szkody, P., Howell, S.B., Gelino, D.M. 2003, AJ, in Press

"The ESI/Keck II Damped Lyman Alpha Abundance Database", Prochaska, J.X., Gawiser, E., Wolfe, A.M., Cooke, J., Gelino, D.M. 2003, ApJS, 147, 227

"Modeling the Remarkable Multiwavelength Light Curves of EF Eridanus: The Detection of Its Irradiated Brown Dwarf-like Secondary Star", Harrison, T.E., Howell, S.B., Osborne, H.L., Holtzman, J.A., Gelino, D.M., Cash, J.L. 2003, AJ, 125, 2609

"A Multi-Wavelength, Multi-Epoch Study of the Soft X-Ray Transient Prototype, V616 Mon (A0620-00)", Gelino, D.M., Harrison, T.E., Orosz, J. A. 2001, AJ, 122, 2668

"Modeling Infrared Ellipsoidal Variations: Determining the Masses of Black Holes in Soft X-Ray Transients", Gelino, D.M. 2001, Ph.D. Dissertation, New Mexico State University

"Infrared Observations of Nova Muscae 1991: Black Hole Mass Determination from Ellipsoidal Variations", Gelino, D.M., Harrison, T.E., McNamara, B.J, 2001, AJ, 122, 971

"Infrared Observations of AR Ursa Majoris: Modeling the Ellipsoidal Variations", Howell, S.B., Gelino, D.M., Harrison, T.E. 2001, AJ, 121, 482

"IRAS 13568-6232: A Quiescent Symbiotic Mira?", Leeber, D.M., Whittet, D.C.B., Prusti, T., Kilkenny, D., Whitelock, P.A. 1996, ApJ, 463, L25

In Preparation:

"Finding the Elusive Optical Counterpart to 4U 0042+32", Gelino, D.M., Tomsick, J.A., Heindl, W.A., Kaaret, P. 2004, in preparation

"The Damped Lyman Alpha Northern Hemisphere Radio-Selected Sample", Gelino, D.M., Wolfe, A.M., Prochaska, J.X., Gawiser, E., Cooke, J., 2004, in preparation

Non-Refereed:

"Measuring the Masses of Compact Objects in Low-Mass X-Ray Binaries", Gelino, D.M., to appear in Compact Binaries in the Galaxy and Beyond, IAU Colloquium # 194 held in La Paz, Mexico November 2003, Revista Mexicana de Astronomia y Astrofisica Conference Series, eds. G. Tovmassian, and E. Sion

"Measuring the Orbital Inclination Angle for the Low-Mass X-Ray Binary XTE J2123-058", Gelino, D.M., Tomsick, J.A., Heindl, W.A. 2003, BAAS, 34, 1199

"Masses of the Black Holes in N Vel 93 and J0422+32", Gelino, D.M., Harrison, T.E. 2002, BAAS, 34, 654

"Dust Around Novae: The Continuing Saga", Johnson, J.J., Harrison, T.E., Osborne, H., Gelino, D.M., Stringfellow, G.S. 2002, BAAS, 34, 773

"Simultaneous BVRIJHK Photometry of Cataclysmic Variables: Measuring Orbital Inclination Angles Using Ellipsoidal Variations", Osborne, H., Harrison, T.E., Howell, S.B., Johnson, J.J., Gelino, D.M. 2002, BAAS, 34, 775

"The Detection of 13CO and Other Abundance Anomalies in the Secondary Stars of Cataclysmic Variables", Harrison, T.E., Howell, S.B., Osborne, H., Johnson, J.J., Gelino, D.M. 2002, BAAS, 34, 775

"Modeling Infrared Ellipsoidal Variations: Determining the Masses of Black Holes in Soft X-Ray Transients", Gelino, D.M. 2002, BAAS, 33, 1474

"Observations of Infrared Ellipsoidal Variations in Cataclysmic Variables: Determining Orbital Inclinations", Harrison, T.E., Osborne, H., Johnson, J.J., Howell, S.B., Gelino, D.M. 2002, BAAS, 33, 1401

"Nova Centauri: A Nova With a Leaky Shell", Johnson, J.J., Harrison, T.E., Osborne, H., Gelino, D.M., Liller, W. 2002, BAAS, 33, 1400

"Measuring the Mass of the Black Hole in GS2000+25 Using Infrared Ellipsoidal Variations", Leeber, D.M., Harrison, T.E., McNamara, B.J. 2001, in Black Holes in Binaries and Galactic Nuclei, ESO Workshop held in Garching, Germany September 1999 (Springer: New York)

"Determining the Mass of Black Holes in Soft X-Ray Transients", Gelino, D.M., Harrison, T.E., McNamara, B.J. 2001, BAAS, 32, 1545

"Measuring the Mass of the Black Hole in GRS 1124–68", Gelino, D.M., Harrison, T.E., McNamara, B.J. 2000, BAAS, 32, 1219

"The Structure of Shells Around Classical Novae", Johnson, J.J., Leeber, D.M., Harrison, T.E. 1999, AAS 195, #40.07

"The Infrared Ellipsoidal Variations of SXTs: Measuring Black Hole Masses", Leeber, D.M., Harrison, T.E., McNamara, B.J.1999, BAAS, 31, 715

"Modeling the Evolution of the Dust Shell Around Nova Centauri 1991", Leeber, D.M., Harrison, T.E., Stringfellow, G.S., Johnson, J.J. 1999, BAAS, 30, 1400

"The Peculiar Infrared Behavior of Nova Centauri 1991", Leeber, D.M. et al. 1997, BAAS, 29, 1385

"RXTE ASM Monitoring of Small Gamma Ray Burst Error Boxes for Transient Soft X-Ray Emission", Harrison, T., McNamara, B., Leeber, D., et al. 1997, BAAS, 29, 1288

"Model Visible and Near-Infrared Spectra of Extrasolar Giant Planets", Marley, M., Leeber, D., et al. 1997, Proceedings - 29th Annual Meeting of the Division for Planetary Sciences (of the American Astronomical Society)

"Infrared Observations of the Ellipsoidal Light Variation in J0422+32", Leeber, D., Harrison, T.,McNamara, B. 1997, Proceedings - The Fourth Compton Gamma-Ray Observatory Symposium AIP CP 410, p.942