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EDUCATION

New Mexico State University Ph.D., Astronomy, May 2001 Thesis: <i>A Radio Perspective on Galaxy Evolution in the Cluster Environment</i> Advisor: Frazer N. Owen	1995 – 2000
University of Pennsylvania M.S., Energy Management and Environmental Policy, May 1993	1991 – 1993
Princeton University A.B., Astrophysical Sciences (<i>cum laude</i>), June 1991	1987 – 1991

EMPLOYMENT

National Radio Astronomy Observatory Jansky Postdoctoral Fellow Johns Hopkins University, Baltimore, MD	2004 –
University of Maryland, College Park Scholars Associate Director, <i>Science, Discovery & the Universe</i> Lecturer, <i>Science, Discovery & the Universe</i> University of Maryland, College Park, MD	2005 – 2007 2003 – 2007
National Research Council National Research Council Associate NASA Goddard Space Flight Center, Greenbelt, MD	2001 – 2004
Decision Analysis Corporation of Virginia Consultant to Energy Information Administration US Department of Energy, Washington, DC	1993 – 1995

PROFESSIONAL SOCIETIES AND HONORS

International Astronomical Union (IAU)	2006 –
American Astronomical Society (AAS)	1997 –
Second NRAO/AUI Image Contest, Honorable Mention	2006
Predocctoral Scholar, National Radio Astronomy Observatory	1998 – 2000
Pegasus Award for Outstanding Astronomy Teaching, NMSU	1997
Chairman's Prize for Academic Excellence, University of Pennsylvania	1993

TEACHING EXPERIENCE

- *Science, Discovery & the Universe* is a program within College Park Scholars, a living-learning community for academically talented students at the University of Maryland. My primary responsibility was the instruction of a one-credit freshmen colloquium for about 30 students each semester, including the selection of a topic and developing all the lectures and assignments. As a living-learning community, it was also important that I supported the students' efforts outside of the classroom, including community service projects and independent research efforts.
- I have nearly 5 years of experience as a teaching assistant for undergraduate astronomy accumulated at the University of Pennsylvania and New Mexico State University. I was the recipient of an award recognizing the top astronomy TA at NMSU and was highly active in community outreach.

RESEARCH INTERESTS

- Evolution of galaxies in clusters and deep fields
 - ◊ Radio continuum investigation of star formation as a function of environment
 - ◊ Multiwavelength determination of star formation history
 - ◊ Classification of galaxies through optical spectroscopy
 - ◊ Cluster dynamics
- Radio observation of ultraluminous X-ray sources

SUCCESSFUL PI PROGRAMS

- *Chandra* Cycle 9: "The Long and Short (Wavelength) of It: Radio Properties of X-ray Selected Sources in the ECDFS," (Archival, \$55k)
- *HST* Cycle 15: "J170902+641728: ACS Imaging of an Unusual Compact Object," (1 orbit, \$2.8k)
- *GALEX* Cycle 2: "Star Formation History in the Richest Clusters of Galaxies," (6 orbits, \$30k)
- NRAO: 9 separate *VLA* and *VLBA* programs (about 400 hours total)
- NOAO: 3 separate programs (KPNO 2.1m with GoldCam, CTIO 1.5m; 17 nights total)
- Steward: 4 separate programs (Bok 2.1m with MX; 11 nights total)
- AAS Small Research Grant, 2001 (\$1.5k)

SELECTED COI PROGRAMS

- *Chandra* Cycle 9: "The Active Galaxy Population in a Supercluster at $z=0.7$," (PI: L. Lubin, 100 ksec, \$70k total budget)
- *HST* Cycle 15: "An ACS Treasury Survey of the Coma Cluster of Galaxies," (PI: D. Carter, 164 orbits, \$744k total budget)
- *XMM* Cycle 5: "Complete X-ray Observations of an Off-Center Region in Coma," (PI: A. Hornschemeier, 222 ksec, \$120k total budget)

PROFESSIONAL SERVICE

- Referee for astronomical journals: *The Astrophysical Journal*, *The Astrophysical Journal Letters*, *Monthly Notices of the Royal Astronomical Society*
- NASA Panel Review (2 panels)
- Referee for *VLA* observing proposals (6 proposal cycles)

REFERENCES

Dr. Ken Kellermann

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520 Edgemont Road
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Dr. John Cordes

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Cabrini College
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Dr. Ann Hornschemeier

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8800 Greenbelt Road
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Dr. Colin Norman

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3400 N. Charles Street
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REFEREED PUBLICATIONS

1. "A Deep GALEX Luminosity Function in an Off-Center Region of the Coma Cluster,"
Hammer, D.M., Hornschemeier, A.E., Salim, S., Jenkins, L., Mobasher, B., Miller, N., Ferguson, H., & Heckman, T. 2008, ApJ, in submission
2. "The HST/ACS Coma Cluster Survey. I. Survey Objectives and Design,"
Carter, D. et al. 2008, ApJS, in submission
3. "Abell 2111: An Optical and Radio Study of the Richest Butcher-Oemler Cluster,"
Miller, N.A., Oegerle, W.R., & Hill, J.M. 2006, AJ, 131, 2426
4. "Star Formation and Active Galactic Nuclei in the Core of the Shapley Supercluster: A VLA Survey of A3556, A3558, SC1327-312, SC1329-313, and A3562,"
Miller, N.A. 2005, AJ, 130, 2541
5. "The Cluster of Galaxies Surrounding Cygnus A. II. New Redshifts,"
Ledlow, M.J., Owen, F.N., & Miller, N.A. 2005, AJ, 130, 47
6. "Radio Emission Associated with the Ultraluminous X-ray Source in Holmberg II,"
Miller, N.A., Mushotzky, R.F., & Neff, S.G. 2005, ApJ, 623, L109
7. "The Dynamics of A2125,"
Miller, N.A., Owen, F.N., Hill, J.M., Keel, W.C., Ledlow, M.J., & Oegerle, W.R. 2004, ApJ, 613, 841
8. "Time Development of Recurrent Nova CI Aquilae's 2000 Outburst Between 0.8 and 2.5 μm ,"
Lynch, D.K., Wilson, J.C., Rudy, R.J., Venturini, C., Mazuk, S., Miller, N.A., & Puetter, R.C. 2004, AJ, 127, 1089
9. "*Chandra* Observations of Point Sources in Abell 2255,"
Davis, D.S., Miller, N.A., & Mushotzky, R.F. 2003, ApJ, 597, 202
10. "A Comprehensive Radio and Optical Study of Abell 2256: Activity from an Infalling Group,"
Miller, N.A., Owen, F.N., & Hill, J.M. 2003, AJ, 125, 2393

11. "Abell 2255: Increased Star Formation and AGN Activity in a Cluster-Cluster Merger,"
Miller, N.A., & Owen, F.N. 2003, AJ, 125, 2427
12. "Evolution of Star Forming and Active Galaxies in Nearby Clusters,"
Miller, N.A., & Owen, F.N. 2002, AJ, 124, 2453
13. "Redshifts for a Radio-Selected Sample of Poor Clusters,"
Miller, N.A., Ledlow, M.J., Owen, F.N., & Hill, J.M. 2002, AJ, 123, 3018
14. "Current Star Formation in Post-Starburst Galaxies?"
Miller, N.A., & Owen, F.N. 2001, ApJ, 554, L25
15. "The Radio Galaxy Populations of Nearby Northern Abell Clusters,"
Miller, N.A., & Owen, F.N. 2001, ApJS, 134, 355
16. "The Far-Infrared/Radio Correlation in Nearby Abell Clusters,"
Miller, N.A., & Owen, F.N. 2001, AJ, 121, 1903
17. "An X-ray and Optical Investigation of the Environments Around Nearby Radio Galaxies,"
Miller, N.A., Owen, F.N., Burns, J.O., Ledlow, M.J., & Voges, W. 1999, AJ, 118, 1988

SELECTED ABSTRACTS AND CONFERENCE PROCEEDINGS

1. "VLA 1.4GHz Observations for the HST/ACS Coma Cluster Survey,"
Miller, N., Hornschemeier, A., & Mobasher, B. 2007, NRAO 50th Anniversary Science Symposium, Charlottesville, VA
2. "A Complex Supercluster at $z=0.9$: Multiwavelength Observations of Cl1604,"
Gal, R.G., Lubin, L.M., Squires, G.K., Lemaux, B., Kocevski, D., Miller, N., & Fassnacht, C. 2007, BAAS, 210.0602
3. "The micro-Jy Radio Source Population: The VLA-CDFS View,"
Padovani, P., Mainieri, V., Tozzi, P., Kellermann, K.I., Fomalont, E.B., Miller, N., Rosati, P., & Shaver, P. 2007, in proceedings for *At the Edge of the Universe*, Sintra, Portugal
4. "A Multiwavelength Study of a Sample of Texas Radio Survey Steep Spectrum Sources,"
Lucas, R.A., Miller, N., van Duyne, J., Koekemoer, A.M., & Chambers, K.C. 2006, IAU, Special Session 3, # 42
5. "Deep X-ray (and Multiwavelength) Survey of the Coma Cluster of Galaxies,"
Hornschemeier, A.E., Mobasher, B., Jenkins, L.P., Miller, N.A., Kilbourne, C.A., Bautz, M.W., & Hammer, D.M. 2006, BAAS, 207, 211.12
6. "J170902+641728: The Little Engine That Could,"
Miller, N.A., & Anderson, K.S. 2005, BAAS, 207, 116.02
(**Press release:** <http://www.nrao.edu/pr/2006/bareagn/>)
7. "Radio Detections of Ultraluminous X-ray Sources,"
Miller, N.A., Neff, S.G., & Mushotzky, R.F. 2005, in *X-Ray and Radio Connections*, eds. L.O. Sjouwerman and K.K. Dyer, (<http://www.aoc.nrao.edu/events/xraydio>)
8. "Finding Hidden X-Ray AGN in the Sloan Digital Sky Survey,"
Miller, N.A., & Mushotzky, R.F. 2004, BAAS, 205, 27.13

9. “New M and L Dwarfs Confirmed with CorMASS,”
Wilson, J.C., Miller, N.A., Gizis, J.E., Skrutskie, M.F., Houck, J.R., Kirkpatrick, J.D., Burgasser, A.J., & Monet, D.G. 2003, in *Brown Dwarfs, Proceedings of IAU Symposium #211*, ed. E. Martín, (San Francisco:Astronomy Society of the Pacific)
10. “Star Formation in Cluster-Cluster Mergers,”
Miller, N.A. 2003, in *Carnegie Observatories Astrophysics Series, Vol. 3: Clusters of Galaxies: Probes of Cosmological Structure and Galaxy Evolution*, eds. J.S. Mulchaey, A. Dressler, and A. Oemler, (Pasadena: Carnegie Observatories,
<http://www.ociw.edu/ociw/symposia/series/symposium3/proceedings.html>)
11. “0.8–2.5 μm Spectroscopy of Novae,”
Lynch, D.K., Rudy, R.J., Venturini, C.C., Mazuk, S., Dimpfl, W.L., Wilson, J.C., Miller, N.A., and Puetter, R.C. 2002, in *Classical Nova Explosions*, eds. M. Hernanz and J. José, (AIP Conference Proceedings, vol. 637)
12. “Extended Extragalactic Radio Emission,”
Owen, F.N., Ledlow, M.J., Eilek, J.A., Kassim, N.E., Miller, N., Dwarakanath, K.S., & Ivison, R.J. 2002, IAUS, 199, 1710 (*The Universe at Low Radio Frequencies*)
13. “Radio Evidence for Evolution in Rich Clusters,”
Owen, F.N., Morrison, G.E., Dwarakanath, K.S., Ledlow, M.J., and Miller, N.A. 2000, in *Gas & Galaxy Evolution*, eds. J.H. Hibbard, M.P. Rupen, and J.H. van Gorkum, (San Francisco:A.S.P. Conference Series)
14. “A Search for Dust-Enshrouded Star Formation in E+A Galaxies,”
Miller, N.A., & Owen, F.N. 2000, in *Gas & Galaxy Evolution*, eds. J.H. Hibbard, M.P. Rupen, and J.H. van Gorkum, (San Francisco:A.S.P. Conference Series)
15. “The FIR-Radio Correlation in Nearby Abell Clusters: Implications for the Radio-to-Submm Spectral Index Redshift Estimator,”
Miller, N.A., & Owen, F.N. 2000, in *Deep Submm Surveys: Implications for Galaxy Formation and Evolution*, eds. J. Lowenthal and D. Hughes, (Singapore:World Scientific)