

CURRICULUM VITAE

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DAVID M. MEYER

Department of Physics and Astronomy
Northwestern University
2145 Sheridan Road
Evanston, IL 60208

Education

Ph.D. University of California, Los Angeles (Astronomy), June 1984.
M.A. University of California, Los Angeles (Astronomy), June 1981.
B.S. University of Wisconsin (Astrophysics), May 1980.

Post-PhD Honors and Awards

McCormick Professorship of Teaching Excellence, Northwestern University, May 2009.
Koldyke Outstanding Teaching Professorship, Northwestern University, Sep 2002.
Weinberg Distinguished Teaching Award, Northwestern University, June 1999.
NU Alumni Excellence in Teaching Award, Northwestern University, Oct 1998.
Robert R. McCormick Postdoctoral Fellowship, University of Chicago, Aug 1984.

Professional Positions

Professor (Sep 2000 to present)
Associate Professor (Sep 1993 to Aug 2000)
Assistant Professor (Aug 1987 to Aug 1993)

Director, Dearborn Observatory (Sep 2004 to present)
Co-Director, CIERA (Sep 2009 to Aug 2011)

Chair (Sep 2001 to Aug 2004)
Associate Chair (Sep 2010 to Aug 2015)
Department of Physics and Astronomy, Northwestern University

Robert R. McCormick Postdoctoral Fellow (Aug 1984 to Aug 1987)
Enrico Fermi Institute, University of Chicago

Professional Memberships

International Astronomical Union
American Astronomical Society

Professional Interests

Optical and Ultraviolet Observations of Interstellar Atoms, Molecules, and Dust
Quasar Absorption-Line Systems, Galactic Chemical Evolution, and Cosmology
Techniques in High Signal-to-Noise Astronomical Spectroscopy

Publications

Video Courses

Meyer, D.M. **“Experiencing Hubble: Understanding the Greatest Images of the Universe”** 2011, The Great Courses, Chantilly, Virginia (Twelve 30-minute lectures on DVD).

Meyer, D.M. **“A Visual Guide to the Universe”** 2014, The Great Courses, Chantilly, Virginia (Eighteen 30-minute lectures on DVD).

Books

Meyer, D.M. **“Experiencing Hubble: Understanding the Greatest Images of the Universe”** (Course Guidebook) 2011, The Great Courses, Chantilly, Virginia (59 pages).

Meyer, D.M. **“Experiencing Hubble: Understanding the Greatest Images of the Universe”** (Transcript Book) 2011, The Great Courses, Chantilly, Virginia (203 pages).

Meyer, D.M. **“A Visual Guide to the Universe”** (Course Guidebook) 2014, The Great Courses, Chantilly, Virginia (132 pages).

Meyer, D.M. **“A Visual Guide to the Universe”** (Transcript Book) 2014, The Great Courses, Chantilly, Virginia (366 pages).

Peer-Reviewed Research Journal Articles

1. Meyer, D.M., and Savage, B.D. **“Ultraviolet Interstellar Extinction Toward 1367 Stars Observed by ANS”** 1981, *Astrophysical Journal*, 248, 545.

2. Meyer, D.M. **“Observations of Diffuse Interstellar Lines Toward Stars with Low Column Densities of H₂”** 1983, *Astrophysical Journal (Letters)*, 266, L51.

3. Etzel, P.B., and Meyer, D.M. **“The Stellar Wind(s) in Beta Lyrae”** 1983, *Publications of the Astronomical Society of the Pacific*, 95, 891.

4. Meyer, D.M., and Jura, M. **“The Microwave Background Temperature at 2.64 and 1.32 Millimeters”** 1984, *Astrophysical Journal (Letters)*, 276, L1.

5. Meyer, D.M., and Ulrich, R.K. **“Observations of Diffuse Interstellar Bands Toward T Tauri Stars”** 1984, *Astrophysical Journal*, 283, 98.

6. Jura, M., and Meyer, D.M. **“An Optical Measurement of the Population Inversion of the Ground-State Lambda Doublet of Interstellar CH”** 1985, *Astrophysical Journal*, 294, 238.

7. Hawkins, I., Jura, M., and Meyer, D.M. **“The ¹²C/¹³C Isotope Ratio Toward Zeta Ophiuchi”** 1985, *Astrophysical Journal (Letters)*, 294, L131.

8. Meyer, D.M., and Jura, M. **“A Precise Measurement of the Cosmic Microwave Background Temperature from Optical Observations of Interstellar CN”** 1985, *Astrophysical Journal*, 297, 119.
9. Snow, T.P., Joseph, C.L., and Meyer, D.M. **“Observations of Neutral Atoms in the Rho Ophiuchi Cloud”** 1986, *Astrophysical Journal*, 303, 433.
10. Meyer, D.M., Black, J.H., Chaffee, F.H., Foltz, C.B., and York, D.G. **“An Upper Limit on the Microwave Background Temperature at $z=1.776$ ”** 1986, *Astrophysical Journal (Letters)*, 308, L37.
11. Meyer, D.M., and York, D.G. **“Observations of Weak C IV Absorption Toward the QSOs 2000-330 and 2126-158”** 1987, *Astrophysical Journal (Letters)*, 315, L5.
12. Meyer, D.M., and York, D.G. **“Observations of Ni II Absorption at $z=2.811$ Toward the QSO PKS 0528-250”** 1987, *Astrophysical Journal (Letters)*, 319, L45.
13. Robertson, J.G., Morton, D.C., Blades, J.C., York, D.G., and Meyer, D.M. **“Observations of High-Redshift Ca II Absorption in QSO Spectra”** 1988, *Astrophysical Journal*, 325, 635.
14. Hawkins, I., and Meyer, D.M. **“Probing the Possibility of a $^{12}\text{C}/^{13}\text{C}$ Abundance Gradient from Observations of Interstellar CH⁺”** 1989, *Astrophysical Journal*, 338, 888.
15. Meyer, D.M., Roth, K.C., and Hawkins, I. **“A Precise CN Measurement of the Cosmic Microwave Background Temperature at 1.32 mm”** 1989, *Astrophysical Journal (Letters)*, 343, L1.
16. Meyer, D.M., Welty, D.E., and York, D.G. **“Element Abundances at High Redshift”** 1989, *Astrophysical Journal (Letters)*, 343, L37.
17. Meyer, D.M., and Roth, K.C. **“Observations of the (1,0) Vibrational Band of Interstellar CN Toward Zeta Oph”** 1990, *Astrophysical Journal*, 349, 91.
18. Meyer, D.M., and Roth, K.C. **“Observations of Nickel, Chromium, and Zinc in QSO Absorption-Line Systems”** 1990, *Astrophysical Journal*, 363, 57.
19. Meyer, D.M. **“Small-Scale Structure in the Diffuse Interstellar Medium”** 1990, *Astrophysical Journal (Letters)*, 364, L5.
20. Meyer, D.M., and Roth, K.C. **“Discovery of Interstellar NH”** 1991, *Astrophysical Journal (Letters)*, 376, L49.
21. Meyer, D.M., and Roth, K.C. **“Observations of Ca II Absorption Along the Nearly Parallel Lines of Sight Toward 3C 273 and SN 1991T”** 1991, *Astrophysical Journal (Letters)*, 383, L41.

22. Meyer, D.M., and York, D.G. **“Observations of Zn II, Cr II, Fe II, and Ca II in the Damped Lyman-Alpha Absorber at $z=0.692$ Toward 3C 286”** 1992, *Astrophysical Journal (Letters)*, 399, L121.
23. O'Dell, C.R., Valk, J.H., Wen, Z., and Meyer, D.M. **“Identification of Velocity Systems in the Inner Orion Nebula”** 1993, *Astrophysical Journal*, 403, 678.
24. Hawkins, I., Craig, N., and Meyer, D.M. **“Determination of $^{12}\text{C}/^{13}\text{C}$ in the Interstellar Medium Toward Zeta Ophiuchi and Xi Persei”** 1993, *Astrophysical Journal*, 407, 185.
25. Meyer, D.M., Hawkins, I., and Wright, E.L. **“The Interstellar $^7\text{Li}/^6\text{Li}$ Isotope Ratio Toward Zeta Ophiuchi and Zeta Persei”** 1993, *Astrophysical Journal (Letters)*, 409, L61.
26. Roth, K.C., Meyer, D.M., and Hawkins, I. **“Interstellar Cyanogen and the Temperature of the Cosmic Microwave Background Radiation”** 1993, *Astrophysical Journal (Letters)*, 413, L67.
27. Bowen, D.V., Roth, K.C., Blades, J.C., and Meyer, D.M. **“Interstellar and Intergalactic Mg and Na Absorption Toward SN1993J”** 1994, *Astrophysical Journal (Letters)*, 420, L71.
28. Meyer, D.M., Jura, M., Hawkins, I., and Cardelli, J.A. **“The Abundance of Interstellar Oxygen Toward Orion: Evidence for Recent Infall?”** 1994, *Astrophysical Journal (Letters)*, 437, L59.
29. Roth, K.C., and Meyer, D.M. **“Cyanogen Excitation in Diffuse Interstellar Clouds”** 1995, *Astrophysical Journal*, 441, 129.
30. Sembach, K.R., Steidel, C.C., Macke, R.J., and Meyer, D.M. **“A Critical Analysis of Interstellar Zn and Cr as Galactic Abundance Benchmarks for Quasar Absorbers”** 1995, *Astrophysical Journal (Letters)*, 445, L27.
31. Lu, L., Savage, B.D., Tripp, T.M., and Meyer, D.M. **“Metal Abundances and Physical Conditions in Two Damped Lyman-Alpha Systems Toward HS 1946+7658”** 1995, *Astrophysical Journal*, 447, 597.
32. Meyer, D.M., Lanzetta, K.M., and Wolfe, A.M. **“The Iron Group Abundance Pattern of the Damped Lyman-Alpha Absorber at $z=1.3726$ Toward the QSO 0935+417”** 1995, *Astrophysical Journal (Letters)*, 451, L13.
33. Haffner, L.M., and Meyer, D.M. **“A Search for Interstellar C_3 in the Translucent Cloud Toward HD 147889”** 1995, *Astrophysical Journal*, 453, 450.
34. Jura, M., Meyer, D.M., Hawkins, I., and Cardelli, J.A. **“The Interstellar Boron Abundance Toward Orion”** 1996, *Astrophysical Journal*, 456, 598.
35. Meyer, D.M., and Blades, J.C. **“Small-Scale ISM Structure: The Remarkable Sightline Toward Mu Crucis”** 1996, *Astrophysical Journal (Letters)*, 464, L179.

36. Cardelli, J.A., Meyer, D.M., Jura, M., and Savage, B.D. **“The Abundance of Interstellar Carbon”** 1996, *Astrophysical Journal*, 467, 334.
37. Watson, J.K., and Meyer, D.M. **“Observations of Ubiquitous Small-Scale Structure in the Diffuse Interstellar Medium”** 1996, *Astrophysical Journal (Letters)*, 473, L127.
38. Cardelli, J.A., and Meyer, D.M. **“The Abundance of Interstellar Krypton”** 1997, *Astrophysical Journal (Letters)*, 477, L57.
39. Steidel, C.C., Dickinson, M., Meyer, D.M., Adelberger, K.L., and Sembach, K.R. **“QSO Absorbing Galaxies at $z < 1$: Deep Imaging and Spectroscopy in the Field of 3C 336”** 1997, *Astrophysical Journal*, 480, 568.
40. Sofia, U.J., Cardelli, J.A., Guerin, K.P., and Meyer, D.M. **“Carbon in the Diffuse Interstellar Medium”** 1997, *Astrophysical Journal (Letters)*, 482, L105.
41. Lanzetta, K.M., Wolfe, A.M., Altan, H., Barcons, X., Chen, H.W., Fernandez-Soto, A., Meyer, D.M., Ortiz-Gil, A., Savaglio, S., Webb, J.K., and Yahata, N. **“Damped Lyman-Alpha Absorption Associated With an Early-Type Galaxy at Redshift $z=0.16377$ ”** 1997, *Astronomical Journal*, 114, 1337.
42. Meyer, D.M., Cardelli, J.A., and Sofia, U.J. **“The Abundance of Interstellar Nitrogen”** 1997, *Astrophysical Journal (Letters)*, 490, L103.
43. Meyer, D.M., Jura, M., and Cardelli, J.A. **“The Definitive Abundance of Interstellar Oxygen”** 1998, *Astrophysical Journal*, 493, 222.
44. Sofia, U.J., Fitzpatrick, E.L., and Meyer, D.M. **“A Reanalysis of the Carbon Abundance in the Translucent Cloud Toward HD 24534”** 1998, *Astrophysical Journal (Letters)*, 504, L47.
45. Lauroesch, J.T., Meyer, D.M., Watson, J.K., and Blades, J.C. **“The Physical Characteristics of the Small-Scale Interstellar Structure Toward Mu Crucis”** 1998, *Astrophysical Journal (Letters)*, 507, L89.
46. Lauroesch, J.T., and Meyer, D.M. **“Observations of Small-Scale ISM Structure in Dense Atomic Gas”** 1999, *Astrophysical Journal (Letters)*, 519, L181.
47. Meyer, D.M., and Lauroesch, J.T. **“A Na I Absorption Map of the Small-Scale Structure in the Interstellar Gas Toward M15”** 1999, *Astrophysical Journal (Letters)*, 520, L103.
48. Sofia, U.J., Meyer, D.M., and Cardelli, J.A. **“The Abundance of Interstellar Tin and Cadmium”** 1999, *Astrophysical Journal (Letters)*, 522, L137.
49. Bowen, D.V., Roth, K.C., Meyer, D.M., and Blades, J.C. **“Interstellar and Circumstellar Optical and Ultraviolet Lines Towards SN1998S”** 2000, *Astrophysical Journal*, 536, 225.

50. Lauroesch, J.T., Meyer, D.M., and Blades, J.C. **“Evidence of Interstellar Na I Structure at Scales Down to 15 AU in Low-Density Gas”** 2000, *Astrophysical Journal (Letters)*, 543, L43.
51. Andrews, S.M., Meyer, D.M., and Lauroesch, J.T. **“Small-Scale Interstellar Na I Structure Toward M92”** 2001, *Astrophysical Journal (Letters)*, 552, L73.
52. Meyer, D.M., Lauroesch, J.T., Sofia, U.J., Draine, B.T., and Bertoldi, F. **“The Rich Ultraviolet Spectrum of Vibrationally Excited Interstellar H₂ Toward HD 37903”** 2001, *Astrophysical Journal (Letters)*, 553, L59.
53. Sofia, U.J., and Meyer, D.M. **“Interstellar Abundance Standards Revisited”** 2001, *Astrophysical Journal (Letters)*, 554, L221.
54. Cartledge, S.I.B., Meyer, D.M., Lauroesch, J.T., and Sofia, U.J. **“STIS Observations of Interstellar Oxygen and Krypton in Translucent Clouds”** 2001, *Astrophysical Journal*, 562, 394.
55. Fox, A.J., Savage, B.D., Sembach, K.R., Fabian, D., Richter, P., Meyer, D.M., Lauroesch, J., and Howk, J.C. **“Origins of the Highly Ionized Gas Along the Line of Sight Toward HD 116852”** 2003, *Astrophysical Journal*, 582, 793.
56. Lauroesch, J.T., and Meyer, D.M. **“Variable Na I Absorption Toward Rho Leonis: Biased Neutral Formation in the Diffuse Interstellar Medium?”** 2003, *Astrophysical Journal (Letters)*, 591, L123.
57. Knauth, D.C., Howk, J.C., Sembach, K.R., Lauroesch, J.T., and Meyer, D.M. **“On the Origin of the High-Ionization Intermediate-Velocity Gas Toward HD 14434”** 2003, *Astrophysical Journal*, 592, 964.
58. Cartledge, S.I.B., Meyer, D.M., and Lauroesch, J.T. **“The Homogeneity of Interstellar Krypton in the Galactic Disk”** 2003, *Astrophysical Journal*, 597, 408.
59. Sofia, U.J., Lauroesch, J.T., Meyer, D.M., and Cartledge, S.I.B. **“Interstellar Carbon in Translucent Sightlines”** 2004, *Astrophysical Journal*, 605, 272.
60. Cartledge, S.I.B., Lauroesch, J.T., Meyer, D.M., and Sofia, U.J. **“The Homogeneity of Interstellar Oxygen in the Galactic Disk”** 2004, *Astrophysical Journal*, 613, 1037.
61. Points, S.D., Lauroesch, J.T., and Meyer, D.M. **“The Complex Interstellar Na I Absorption Toward η and χ Persei”** 2004, *Publications of the Astronomical Society of the Pacific*, 116, 801.
62. Cui, J., Bechtold, J., Ge, J., and Meyer, D.M. **“Molecular Hydrogen in the Damped Ly α Absorber of Q1331+170”** 2005, *Astrophysical Journal*, 633, 649.

63. Cartledge, S.I.B., Lauroesch, J.T., Meyer, D.M., and Sofia, U.J. **“The Homogeneity of Interstellar Elemental Abundances in the Galactic Disk”** 2006, *Astrophysical Journal*, 641, 327.
64. Knauth, D.C., Meyer, D.M., and Lauroesch, J.T. **“The Interstellar N/O Abundance Ratio: Evidence for Local Infall”** 2006, *Astrophysical Journal (Letters)*, 647, L115.
65. Meyer, D.M., Lauroesch, J.T., Heiles, C., Peek, J.E.G., and Englehorn, K. **“A Cold Nearby Cloud Inside the Local Bubble”** 2006, *Astrophysical Journal (Letters)*, 650, 67.
66. Miller, A., Lauroesch, J.T., Sofia, U.J., Cartledge, S.I.B., and Meyer, D.M. **“Interstellar Iron and Silicon Depletions in Translucent Sight Lines”** 2007, *Astrophysical Journal*, 659, 441.
67. Cartledge, S.I.B., Lauroesch, J.T., Meyer, D.M., Sofia, U.J., and Clayton, G.C. **“Interstellar Krypton Abundances: The Detection of Kiloparsec-scale Differences in Galactic Nucleosynthetic History”** 2008, *Astrophysical Journal*, 687, 1043.
68. Peek, J.E.G., Heiles, C., Peek, K.M.G., Meyer, D.M., and Lauroesch, J.T. **“The Local Leo Cold Cloud and New Limits on a Local Hot Bubble”** 2011, *Astrophysical Journal*, 735, 129.
69. Meyer, D.M., Lauroesch, J.T., Peek, J.E.G., and Heiles, C. **“The Remarkable High Pressure of the Local Leo Cold Cloud”** 2012, *Astrophysical Journal*, 752, 119.
70. Dirks, C., and Meyer, D.M. **“Temporal Variability of Interstellar Na I Absorption Toward the Monoceros Loop”** 2016, *Astrophysical Journal*, in press.
- Research Review Articles*
71. Meyer, D.M. **“High S/N CCD Spectroscopy of Interstellar Absorption Lines”** 1990, in *CCDs in Astronomy*, ed. G.H. Jacoby (San Francisco: ASP), 345.
72. Meyer, D.M. **“High Resolution HST and CCD Observations of Interstellar Absorption Lines”** 1994, in *The First Symposium on the Infrared Cirrus and Diffuse Interstellar Clouds*, ed. R.M. Cutri and W.B. Latter (San Francisco: ASP), 3.
73. Meyer, D.M. **“A Distant Space Thermometer”** 1994, *Nature*, 371, 13.
74. Kennicutt, R.C., Meyer, D.M., Chevalier, R.A., and Danly, L. **“High-Resolution Spectroscopy of the Interstellar Medium”** 1995, *Publications of the Astronomical Society of the Pacific*, 107, 1003.
75. Meyer, D.M. **“Optical and Ultraviolet Observations of Diffuse Interstellar Clouds”** 1997, in *IAU Symposium 178: Molecules in Astrophysics: Probes and Processes*, ed. E.F. van Dishoeck (Dordrecht: Kluwer), 407.

76. Meyer, D.M. **“Interstellar Depletions and the Composition of Interstellar Dust Grains”** 1997, in *Astrophysical Implications of the Laboratory Study of Presolar Materials*, ed. T.J. Bernatowicz and E. Zinner (New York: AIP Press), 507.

77. Meyer, D.M. **“Abundances in Interstellar Gas”** 1999, in *Chemical Evolution from Zero to High Redshift*, ed. J.R. Walsh and M. Rosa (Berlin: Springer-Verlag), 44.

78. Meyer, D.M. **“CNO Abundances in the Diffuse Interstellar Medium”** 2001, in *Gaseous Matter in Galaxies and Intergalactic Space*, ed. R. Ferlet, M. Lemoine, J.M. Desert, and B. Raban (Paris: Frontier Group), 135.

Research Conference Proceedings

79. Hawkins, I., Jura, M., and Meyer, D.M. **“The $^{12}\text{C}/^{13}\text{C}$ Isotope Ratio Toward Zeta Ophiuchi”** 1985, in *ESO Proceedings 21, Production and Distribution of C, N, O Elements*, ed. I.J. Danziger, F. Matteucci, and K. Kjar (Garching: ESO), 249.

80. Blades, J.C., Robertson, J.G., Morton, D.C., York, D.G., and Meyer, D.M. **“Detection of High Redshift Ca II Absorption”** 1987, in *QSO Absorption Lines: Probing the Universe*, ed. J.C. Blades, C. Norman, and D.A. Turnshek (Baltimore: Space Telescope Science Institute), 114.

81. York, D.G., and Meyer, D.M. **“Abundances in Gas Clouds at High Redshifts”** 1989, in *Cosmic Abundances of Matter*, ed. J. Waddington (New York: AIP), 337.

82. Meyer, D.M., Roth, K.C., and Hawkins, I. **“A Precise CN Measurement of the Microwave Background at 1.32 mm”** 1990, in *IAU Symposium No. 139: Galactic and Extragalactic Background Radiation*, ed. S. Bowyer and C. Leinert (Dordrecht: Reidel), 392.

83. Roth, K.C., and Meyer, D.M. **“Interstellar Cyanogen Measurements of the Cosmic Microwave Background Temperature in Diffuse Clouds”** 1994, in *The First Symposium on the Infrared Cirrus and Diffuse Interstellar Clouds*, ed. R.M. Cutri and W.B. Latter (San Francisco: ASP), 343.

84. Lu, L., Savage, B.D., Tripp, T.M., and Meyer, D.M. **“Relative Metal Abundance Patterns in Two Damped Lyman-Alpha Systems”** 1995, in *QSO Absorption Lines*, ed. G. Meylan (Berlin: Springer-Verlag), 101.

85. Meyer, D.M. **“Abundance Patterns in Low-Redshift Damped Lyman-Alpha QSO Absorbers”** 1998, in *18th Texas Symposium on Relativistic Astrophysics*, ed. A. Olinto, J. Frieman, and D. Schramm (Singapore: World Scientific Press), 646.

86. Sofia, U.J., and Meyer, D.M. **“The s-Process Elements Cadmium and Tin”** 1999, in *Chemical Evolution from Zero to High Redshift*, ed. J.R. Walsh and M. Rosa (Berlin: Springer-Verlag), 72.

87. Kolhatkar, S.P., Roth, K.C., Bowen, D.V., Blades, J.C., and Meyer, D.M. **“Probing Tidal Debris in M81”** 1999, in *International Symposium on Astrophysics Research and Science Education*, ed. C.D. Impey (Notre Dame: University of Notre Dame Press), 252.

88. Roth, K.C., Meyer, D.M., and Lauroesch, J.T. **“The Small-Scale Structure of High-Velocity Na I Absorption Toward M81”** 2001, in *Gaseous Matter in Galaxies and Intergalactic Space*, ed. R. Ferlet, M. Lemoine, J.M. Desert, and B. Raban (Paris: Frontier Group), 211.

89. Meyer, D.M. **“A Cold Nearby Cloud in the Local Bubble”** 2007, in *SINS - Small Ionized and Neutral Structures in the Diffuse Interstellar Medium*, ed. M. Haverkorn and W.M. Goss (San Francisco: ASP), 97.

Research Funding

1. Meyer, D.M. **“Cyanogen, Carbon, and the Microwave Background”**, awarded \$14,000 by the Illinois Space Institute for the period 7/1/88-6/30/89.

2. Meyer, D.M. **“Small-Scale Structure in the Diffuse Interstellar Medium”**, awarded \$26,901 by the National Aeronautics and Space Administration (*IUE*) for the period 6/15/89-12/14/90.

3. Meyer, D.M. **“Small-Scale Structure in the Interstellar Medium”**, awarded \$17,600 by the National Aeronautics and Space Administration (*IUE*) for the period 7/1/90-6/30/91.

4. Meyer, D.M. **“High Signal-to-Noise CCD Spectroscopy of Interstellar Absorption Lines”**, awarded \$75,200 by the National Science Foundation for the period 5/1/91-4/30/93.

5. Meyer, D.M. **“Research Experiences for Undergraduates Supplement: High Signal-to-Noise CCD Spectroscopy of Interstellar Absorption Lines”**, awarded \$5,450 by the National Science Foundation for the period 5/1/91-4/30/93.

6. Yusef-Zadeh, F., and Meyer, D.M. **“An Image Processing System For the Analysis of Radio, Optical, and IR Data at Northwestern”**, awarded \$100,080 by the National Science Foundation for the period 7/15/91-6/30/92.

7. Meyer, D.M. **“High Resolution Spectrograph Guaranteed Time Observations”**, awarded \$8,225 by the National Aeronautics and Space Administration (*HST*) through a UCLA subcontract for the period 8/16/91- 9/15/91.

8. Meyer, D.M. **“The Structure of Interstellar Clouds at the Smallest Scales”**, awarded \$26,000 by the National Aeronautics and Space Administration (*IUE*) for the period 9/15/91-9/14/92.

9. Meyer, D.M., and Ulmer, M.P. **“Complex QSO Absorbers: High Redshift Clusters of Galaxies?”**, awarded \$15,000 by the National Aeronautics and Space Administration (*ROSAT*) for the period 9/15/91-9/14/92.

10. Meyer, D.M. “**High Resolution Spectrograph Guaranteed Time Observations**”, awarded \$8,809 by the National Aeronautics and Space Administration (*HST*) through a UCLA subcontract for the period 8/16/92- 9/15/92.
11. Meyer, D.M. “**High-Velocity Gas in the SN1991T/3C273 Sightline**”, awarded \$16,000 by the National Aeronautics and Space Administration (*IUE*) for the period 9/15/92-9/14/93.
12. Meyer, D.M., and Ulmer, M.P. “**QSO Absorption Complexes: High Redshift Clusters of Galaxies?**”, awarded \$15,000 by the National Aeronautics and Space Administration (*ROSAT*) for the period 9/15/92-9/14/93.
13. Meyer, D.M. “**High Resolution Spectrograph Guaranteed Time Observations**”, awarded \$18,137 by the National Aeronautics and Space Administration (*HST*) through a UCLA subcontract for the period 7/1/93- 8/31/93.
14. Meyer, D.M. “**The Interstellar Abundance of Krypton**”, awarded \$22,186 by the Space Telescope Science Institute (NASA) for the period 2/1/94-1/31/96.
15. Meyer, D.M. “**QSO Absorption-Selected Galaxies in the Field of 3C 336**”, awarded \$9,849 by the Space Telescope Science Institute (NASA) for the period 3/1/94-2/29/96.
16. Meyer, D.M. “**High Signal-to-Noise CCD Spectroscopy of Interstellar Absorption Lines**”, awarded \$54,000 by the National Science Foundation for the period 5/1/94-4/30/97.
17. Meyer, D.M., and Taylor, D. “**Active Learning Environment for Nonscience-Majors Astronomy Classes**”, awarded \$273,412 by the National Science Foundation for the period 5/1/94-4/30/97.
18. Meyer, D.M. “**High Resolution Spectrograph Guaranteed Time Observations**”, awarded \$9,830 by the National Aeronautics and Space Administration (*HST*) through a UCLA subcontract for the period 8/1/94- 8/31/94.
19. Meyer, D.M. “**High Resolution Spectrograph Guaranteed Time Observations**”, awarded \$10,414 by the National Aeronautics and Space Administration (*HST*) through a UCLA subcontract for the period 8/1/95- 8/31/95.
20. Meyer, D.M. “**High Resolution Spectrograph Guaranteed Time Observations**”, awarded \$10,964 by the National Aeronautics and Space Administration (*HST*) through a UCLA subcontract for the period 10/1/95- 9/30/96.
21. Meyer, D.M. “**Interstellar Tin: Probing Galactic s-Process Elemental Enrichment**”, awarded \$27,460 by the Space Telescope Science Institute (NASA) for the period 11/1/95- 10/31/97.
22. Meyer, D.M. “**The Abundance of Interstellar Nitrogen**”, awarded \$45,745 by the Space Telescope Science Institute (NASA) for the period 8/1/96-7/31/98.

23. Meyer, D.M. “**Small-Scale ISM Structure: The Remarkable Sightline Toward m Cru**”, awarded \$54,725 by the Space Telescope Science Institute (NASA) for the period 9/1/96-8/31/98.
24. Meyer, D.M. “**The Physical Characteristics of Small-Scale ISM Structure**”, awarded \$59,441 from the Space Telescope Science Institute (NASA) for the period 10/1/97-12/31/00.
25. Meyer, D.M. “**The Chemical Content of the Universe at $z < 1.6$** ”, awarded \$52,431 from the Space Telescope Science Institute (NASA) for the period 10/1/97-12/31/00.
26. Meyer, D.M. “**The Abundance of Interstellar Sulfur**”, awarded \$48,971 from the Space Telescope Science Institute (NASA) for the period 5/1/98- 4/30/00.
27. Meyer, D.M. “**The Oxygen Abundance in Translucent Interstellar Clouds**”, awarded \$54,178 from the Space Telescope Science Institute (NASA) for the period 7/1/99-6/30/01.
28. Meyer, D.M., and Lauroesch, J.T. “**A SNAPSHOT Survey of Interstellar Absorption Lines**”, awarded \$211,975 from the Space Telescope Science Institute (NASA) for the period 7/1/99-6/30/01.
29. Meyer, D.M. “**Small-Scale Structure in the Diffuse Interstellar Medium**”, awarded \$475,182 by the National Aeronautics and Space Administration (Long-Term Space Astrophysics Program) for the period 3/15/00-3/14/05.
30. Meyer, D.M., and Lauroesch, J.T. “**A SNAPSHOT Survey of the Hot Interstellar Medium**”, awarded \$82,895 from the Space Telescope Science Institute (NASA) for the period 9/1/00-8/31/02.
31. Meyer, D.M., and Lauroesch, J.T. “**Small-Scale ISM Structure Toward the Open Cluster Chi Persei**”, awarded \$71,700 by the National Aeronautics and Space Administration (*FUSE*) for the period 2/1/01-1/31/02.
32. Meyer, D.M., and Lauroesch, J.T. “**Anomalous Oxygen and Krypton Abundances in Interstellar Gas**”, awarded \$66,200 by the National Aeronautics and Space Administration (*FUSE*) for the period 3/1/01-2/28/02.
33. Lauroesch, J.T., and Meyer, D.M. “**The Physical Character of Small-Scale Interstellar Structure**”, awarded \$45,100 by the National Aeronautics and Space Administration (*FUSE*) for the period 2/1/01-2/28/02.
34. Meyer, D.M., and Lauroesch, J.T. “**The Cosmic Carbon Budget**”, awarded \$40,757 from the Space Telescope Science Institute (NASA) for the period 5/1/02- 9/30/04.
35. Lauroesch, J.T., and Meyer, D.M. “**A SNAPSHOT Survey of the Hot Interstellar Medium**”, awarded \$119,454 from the Space Telescope Science Institute (NASA) for the period 7/1/02-6/30/04.

36. Lauroesch, J.T., and Meyer, D.M. **“Exploring Interstellar Krypton Abundance Variations at Kiloparsec Scales”**, awarded \$16,190 from the Space Telescope Science Institute for the period 8/1/03-7/31/05.
37. Lauroesch, J.T., and Meyer, D.M. **“An H₂ Survey of the Complex Interstellar Structure Toward η and Chi Persei”**, awarded \$16,190 by the National Aeronautics and Space Administration (*FUSE*) for the period 2/1/04-1/31/05.
38. Lauroesch, J.T., and Meyer, D.M. **“The Physical Character of the Smallest Scale Interstellar Structures”**, awarded \$60,815 from the Space Telescope Science Institute (NASA) for the period 3/1/04-2/28/07.
39. Meyer, D.M., and Lauroesch, J.T. **“AU-Scale Interstellar H₂ Structure Toward HD37903?”**, awarded \$22,500 by the National Aeronautics and Space Administration (*FUSE*) for the period 3/15/04-3/14/06.
40. Meyer, D.M., and Knauth, D.C. **“On the Distribution of O VI in the Sco OB1 Association”**, awarded \$24,200 by the National Aeronautics and Space Administration (*FUSE*) for the period 7/1/04-6/30/06.
41. Meyer, D.M., and Knauth, D.C. **“Where Has the N₂ Gone”**, awarded \$38,900 by the National Aeronautics and Space Administration (*FUSE*) for the period 10/15/04-10/14/06.
42. Lauroesch, J.T., and Meyer, D.M. **“Digging for Interstellar Rare Elements in Archival UV Spectra”**, awarded \$34,561 from the Space Telescope Science Institute (NASA) for the period 8/1/05-7/31/07.
43. Meyer, D.M. **“An Archival Study of Solar-System-Scale Interstellar Structure”**, awarded \$49,505 from the Space Telescope Science Institute (NASA) for the period 8/1/07-7/31/10.
44. Meyer, D.M. **“The Distance Dependence of the Interstellar N/O Abundance Ratio: A Gould Belt Influence?”**, awarded \$87,791 from the Space Telescope Science Institute (NASA) for the period 10/1/09-9/30/12.
45. Meyer, D.M. **“The Nearest Cold Interstellar Cloud”**, awarded \$63,808 from the Space Telescope Science Institute (NASA) for the period 4/1/10-3/31/13.
46. Meyer, D.M. **“A SNAPSHOT Survey of Interstellar Absorption Lines”**, awarded \$22,272 from the Space Telescope Science Institute (NASA) for the period 5/1/11-4/30/14.
47. Meyer, D.M., and Kalogera, V. **“Collaborative Research: Engaging Introductory Astronomy Students in Authentic Research Through Citizen Science”**, awarded \$302,242 from the National Science Foundation for the period 10/1/15-9/30/18.
48. Meyer, D.M., and Dirks, C. **“Investigating the Gas within the Planck Galactic Cold Clumps”**, awarded \$79,217 from the Space Telescope Science Institute (NASA) for the period 12/1/15-11/30/17.