

MARGARET J. GELLER

Education:

University of California, Berkeley, B.A. (physics, 1970)
Princeton University, M.A. (physics, 1972)
Princeton University, Ph.D. (physics, 1974)

Positions:

1970-1973 NSF Predoctoral Fellow, Princeton University
1974-1976 Center Postdoctoral Fellow, Center for Astrophysics
1976-1978 Research Fellow, Harvard College Observatory
1977-1980 Lecturer, Harvard University
1978-1980 Research Associate, Harvard College Observatory
1978-1980 Senior Visiting Fellow, Institute of Astronomy,
Cambridge University
1980-1983 Assistant Professor, Harvard University
1983-1991 Astronomer, Smithsonian Astrophysical Observatory
1991- Senior Scientist, Smithsonian Astrophysical Observatory

Professional Societies:

American Astronomical Society
International Astronomical Union
American Association for the Advancement of Science (Fellow 1992)
American Physical Society (Fellow 1995)

Honorary Societies:

Phi Beta Kappa (elected 1969)
American Academy of Arts and Sciences (elected 1990)
National Academy of Sciences (elected 1992)

Honorary Degrees:

D.S.H.C. Connecticut College (1995)
D.S.H.C. Gustavus Adolphus College (1997)
D.S.H.C. University of Massachusetts, Dartmouth (2000)
D.S.H.C. Colby College (2009)
D.S.H.C. Universitat Rovira i Virgili (Tarragona, Spain) (2009)

Awards (Selected):

MacArthur Fellowship (1990-1995)
AAAS-Newcomb Cleveland Prize (1991)
Best Case Study, IEEE SIGGRAPH Visualization (1992)
Helen Sawyer Hogg Lectureship, Royal Astronomical Society of Canada (1993)
Klopsteg Award, American Association of Physics Teachers (1996)
Library Lion, New York Public Library (1997)
La Medaille de l'ADION, Nice Observatory (2003)
Magellanic Premium, American Philosophical Society (2008)

Prizes for Film (Selected):

Silver CINDY Award (1991)
CINE Gold Eagle (1992)
Gold Award, Houston Film Festival (1992)
Kino Award, Melbourne International Film Festival (1994)

Honorary Lectures (Selected):

Saas Fee Lecturer (1987)
Philips Lecturer, Haverford College (1988)
Physics Unity Day Speaker, APS (1991)
Gustavus Adolphus College, Nobel Lecturer (1991)
Livermore Distinguished Lecturer (1992)
Goodspeed-Richards Lecture, University of Pennsylvania, Physics (1992)
Brickwedde Distinguished Lecturer, Johns Hopkins, Physics and Astronomy (1993)
Keynote Speaker, IEEE Visualization (1993)
Ohio University Distinguished Lecturer (1994)
Volterra Lecturer, Brandeis (1994)
Council on Undergraduate Education Keynote Speaker, Bates College (1994)
International Planetarium Society Plenary Speaker (1994)
Cornell Theory Center Tenth Anniversary Keynote Speaker (1995)
Connecticut College Dedication Speaker (1995)
Orator, Harvard Commencement Exercises (1995)
Rogers Fellow, Phillips Academy, Andover (1995)
Margaret Johnson Lecturer, Milton Academy (1995)
Ford Lectures on Science, 92nd Street Y, New York City (1995)
Bethe Lecturer, Cornell (1996)
Edison Lecturer, Naval Research Laboratory (1996)
Sturm Lecturer, Wesleyan (1997)
Dartmouth Science Lectures (1997)
Commencement Speaker, Gustavus Adolphus College (1997)
Stellafane Keynote Speaker (1997)
Nobel Distinguished Professorship, Gustavus Adolphus College (1999)
Hilldale Lecturer, University of Wisconsin (1999)

Science Division Lecturer, Reed College (1999)
AAS Centennial Lecturer, (2000-2002)
Smithsonian Distinguished Lecturer (2000)
Princeton University Graduate School 100th Anniversary
Celebration Speaker (2000)
Millennium Essayist, PASP (2001)
Giovedì Scienza Lecturer, Torino, Italy (2001)
Resnick Lecturer, Rensselaer Polytechnic Institute (2001)
Frontiers of Science Lecturer, University of Utah (2002)
Deutsche Physikerinnentagung Plenary Speaker (2002)
Smithsonian/NAS Lecturer (2003)
Chautauqua Institute Speaker (2003)
NSF Distinguished Lecturer (2004)
Perimeter Institute *Top Minds* Lecturer (2004)
Capital Science Lecturer, Carnegie Institution (2005)
George School Dibner Lecture (2005)
UC Irvine Chancellor's Distinguished Fellow (2006)
Ford Motor Company Distinguished Lecture in Physics,
University of Michigan (2008)

National/International Committees (selected):

American Astronomical Society Publications Board (1981-1984)
Chair (1982-1984)
American Institute of Physics Publications Policy Board
(1981-1983)
American Astronomical Society Committee on the Status of
Women (1982-1985)
NASA Management Operations Working Group for Space
Astronomy (1983-1985)
SESAC Space Station Task Force (NASA) (1984-1986)
Councilor of the AAS (1985-1988)
Member-at-Large, AURA Board (1985-1988)
Observatories Advisory Committee (1985-86)
Executive Committee (1986-1988)
Chair, IUE Review Panel (March 1986)
Member, NSF Advisory Committee for the Astronomical Sciences
Division (1986-1989)
Member, NASA HST Infra-Red Instrument Down Selection Committee, 1988
Member, Theoretical Astrophysics Panel of the Bahcall Survey Committee (1989)
Member, NAS Organizing Committee on
Frontiers of Science Meetings (1989-1991)
Member, NRC Committee for NSF Pre-Doctoral Selection (1991)
Board of Reviewing Editors, *Science* (1991-1994)
Organizing Committee of IAU Commission 47 (1991-1997)

Steering Committee, Scientist to Scientist Colloquium, Keystone Center (1992-1994)
Chair, Rumford Prize Committee,
 American Academy of Arts and Sciences (1992-1995)
Board of Directors, *The Bulletin of the Atomic Scientists* (1992-1994)
AAS Warner-Pierce Prize Committee (1993-1995)
NRC Panel on Cosmology (1993-1994)
URA Visiting Committee for Fermilab (1993-1996)
NAS Class Membership Committee (1994)
Board of Trustees, Boston Museum of Science (1994-1997)
Committee on Meetings,
 American Academy of Arts and Sciences (1994-1996)
Cornell Theory Center External Advisory Board (1994-1996)
Board of Physics and Astronomy (1994-1997)
International Organizing Committee, Moriond (1995)
Committee on Studies and Publications,
 American Academy of Arts and Sciences (1995-1998)
International Organizing Committee, Texas Symposium (1996)
Scientific Organizing Committee, NAS Symposium on Cosmology (1996)
Scientific Organizing Committee,
 Ringberg (Germany) Symposium on Redshift Surveys (1996)
NAS Nominating Committee (1996-1997)
Chair, Astrophysics (Physics Section) Screening Panel,
 NAS (1996-1998)
Advisory Board, *Nature's Designs* IMAX Film,
 American Museum of Natural History (1996-1998)
Advisory Board, McDonnell Foundation (1996-1999)
Nominating Committee, Astrophysics Division, APS (1996-1997)
Membership Panel, American Academy of Arts and Sciences (1997-1998)
Senator-at-Large, Phi Beta Kappa (1997-2000)
Time Allocation Committee, Kitt Peak National Observatories (1998-2000)
Advisory Board, National Children's Book and Literacy Alliance (1999-)
Visiting Committee, University of Oregon Physics Department (1999)
Scientific Organizing Committee, IAP 2000 (Paris) (1999-2000)
Council of the National Academy of Sciences (2000-2003)
Scientific Organizing Committee, Texas Symposium (2000)
AAS Warner-Pierce Prize Committee, (2001-2003; Chair 2002 - 2003)
Member, Smithsonian Distinguished Lecturer Committee (2001 - 2004)
Division Advisor, NRC Division on Engineering and Physical Sciences (2001 - 2004)
International Panel of ASI (Italy) Reviewers (2001 -)
Consultant, Boston Museum of Science (2002 - 2003)
Member, Chandra Fellowship Committee (2002 - 2003)
Member, Scientific Organizing Committee, IAU Colloquium 195 (2003-2004)
Member, International Advisory Committee, PASCOS 2004 (2003-2004)
Member, International Advisory Committee, PASCOS 2005 (2004-2005)

Member, Scientific Organizing Committee, COSPAR 2006 (2005-2006)
Chair, CfA Postdoc Committee (2005, 2006)
Member, Nieman Fellows (in Journalism) Selection Committee (2007)
Member, NAS John J. Carty Award (physics) Committee (2009)
Scientific Organizing Committee, Sackler Conference (2010)

Major Scientific Contributions

- Pioneering maps of the nearby universe showing ubiquitous, sharply defined voids, walls, and filaments marked by galaxies. Discovery of the Great Wall in the galaxy distribution. (de Lapparent, Geller & Huchra 1986 ApJLett, 302, L1; Geller & Huchra 1989 Science, 246, 897)
- Development and first application of 3D friends-of-friends algorithm to the identification of systems of galaxies (Huchra & Geller 1982 ApJ, 257, 423; Geller & Huchra 1983 ApJSuppl, 52, 61)
- Detection of substructure in massive clusters of galaxies, an important clue to cluster evolution (Geller & Beers 1982 PASP, 94, 421; Mohr et al. 1993 ApJ, 413, 492)
- Early explorations of the relationships between galaxy properties and environment including the first extension of the morphology-density relation to groups and low density regions of the universe (Davis & Geller 1976ApJ, 208, 13; Postman & Geller 1984 ApJ, 281, 95)
- Development and application of the caustic technique for measuring the mass distribution in the outer, unrelaxed infall regions of clusters of galaxies. Application of this technique provides a route to measurement of the cluster mass function and to constraints on the evolution of clusters and their member galaxies (Diaferio & Geller 1997 ApJ, 481, 633; Geller et al. 1999 ApJ, 517L, 23; Rines et al. 2003AJ, 126, 2152)
- First direct test of a weak lensing map with a deep dense foreground redshift survey (Geller et al. 2005 ApJLett, 635, L125)
- Discovery of hypervelocity stars and development of their implications for measuring the matter distribution in the Milky Way halo and the history of the Milky Way central black hole (Brown, Geller, Kenyon & Kurtz 2005 ApJLett, 622, L33; Brown, Geller & Kenyon 2008arXiv0808.2469 (to be published in ApJ))

Major Contributions to Public Education

- First animated computer graphic voyages through the nearby universe based on actual redshift surveys. Graphics were recognized by IEEE Siggraph, were broadcast worldwide, and were included in science museum exhibits around the world.
- Wrote, produced, and directed two prize-winning films, *Where the Galaxies Are* and *So Many Galaxies ... So Little Time* showcasing the graphics.

PUBLICATIONS

- 1972 “A Test of the Expanding Universe Postulate”, M. J. Geller and P. J. E. Peebles, *Ap.J.*, **174**, 1.
- 1973 “A Statistical Application of the Virial Theorem to Nearby Groups of Galaxies”, M. J. Geller and P. J. E. Peebles, *Ap.J.*, **184**, 329.
- 1976 “Bright Galaxies in Rich Clusters: Test of a Statistical Model for Magnitude Distributions”, M. J. Geller and P. J. E. Peebles, *Ap.J.*, **206**, 939.
- 1976 “On the Use of Correlation Functions in Finding Physical Associations of Galaxies”, S. M. Fall, M. J. Geller, B. J. T. Jones, and S. D. M. White, *Ap.J. (Letters)*, **205**, L121.
- 1976 “Galaxy Correlations as a Function of Morphological Type”, M. Davis and M. J. Geller, *Ap.J.*, **208**, 13.
- 1977 “A Model for Superlight Velocities of Extragalactic Radio Sources”, R. I. Epstein and M. J. Geller, *Nature*, **265**, 219.
- 1978 “The Local Mean Mass Density of the Universe: New Methods for Studying Galaxy Clustering”, M. Davis, M. J. Geller, and J. P. Huchra, *Ap.J.*, **221**, 1.
- 1978 “Compact and Extended X-ray Sources in the Core of the Perseus Cluster (A426)”, H. Helmken, J. P. Delvaille, A. Epstein, M. J. Geller, H. W. Schnopper, and J. G. Jernigan, *Ap.J.*, **221**, L43.
- 1978 “On Application of Statistical Virial Theorems”, M. J. Geller and M. Davis, *Ap.J.*, **225**, 1.
- 1978 “Contribution of Intermediate Luminosity X-ray Galaxies to the Background: A0945-30”, H. W. Schnopper, M. Davis, J. P. Delvaille, M. J. Geller, and J. P. Huchra, *Nature*, **275**, 719.
- 1978 “X-ray Observation of IC4329A”, J. P. Delvaille, M. J. Geller, and H. W. Schnopper, *Ap.J. (Letters)*, **226**, L69.
- 1979 “Night-to-Night Variation in the Optical Continuum of NGC1275”, E. L. Turner, M. J. Geller, and M. Bruno, *Ap.J.*, **230**, L141.
- 1980 “The Correlation of the Cosmic X-ray Background with the Light of Galaxies”, E. L. Turner and M. J. Geller, *Ap.J.*, **236**, 1.
- 1980 “The UV Variability of the Seyfert I Galaxies IIZw2 and Markarian 509”, J. Huchra, M. J. Geller, and D. Morton, in *The Second Year of IUE*, NASA Publication.

- 1982 "Groups of Galaxies I. Nearby Groups", J. P. Huchra and M. J. Geller, *Ap.J.*, **257**, 423.
- 1982 "Galaxy Clusters with Multiple Components I. The Dynamics of A98", T. C. Beers, M. J. Geller, and J. P. Huchra, *Ap.J.*, **257**, 23.
- 1982 "A2069. An X-ray Cluster of Galaxies with Multiple Subcondensations", I. M. Gioia, M. J. Geller, J. P. Huchra, T. Maccacaro, J. Steiner, and J. Stocke, *Ap.J. (Letters)*, **255**, L17.
- 1982 "Substructure in Clusters of Galaxies", M. J. Geller and T. C. Beers, *PASP*, **94**, 421.
- 1982 "Mk36: A Young Galaxy?", J. Huchra, M. J. Geller, J. Gallagher, and D. Hunter, in *Advances in Ultraviolet Astronomy: Four Years of IUE Research*, NASA Conference Publication 2238.
- 1983 "Galaxy Clusters with Multiple Components II. A115", T. C. Beers, J. P. Huchra, and M. J. Geller, *Ap.J.*, **264**, 356.
- 1983 "Groups of Galaxies III. The CfA Survey", M. J. Geller and J. P. Huchra, *Ap.J. Suppl.*, **52**, 61.
- 1983 "The Cancer Cluster: An Unbound Collection of Groups", G. D. Bothun, M. J. Geller, T. C. Beers, and J. P. Huchra, *Ap.J.*, **268**, 47.
- 1983 "Substructure in Clusters of Galaxies", M. J. Geller and T. C. Beers, *IAU Symposium No. 104*, Reidel.
- 1983 "Star Formation in Blue Galaxies I. UV, Optical, and IR Observations of NGC 4214 and NGC 4670", J. Huchra, M. J. Geller, J. Gallagher, D. Hunter, L. Hartmann, G. Fabbiano, and M. Aaronson, *Ap.J.*, **274**, 125.
- 1983 "First-Ranked Galaxies in Groups", M. J. Geller and M. Postman, *Ap.J.*, **274**, 31.
- 1983 "The Environment of D and cD Galaxies", T. C. Beers and M. J. Geller, *Ap.J.*, **274**, 491.
- 1984 "When Clusters are Superclusters", *Comments on Astrophysics*, **X**, **2**, 47-52 (Feb 1984).
- 1984 "Constraints on the Anisotropy of the Velocity Dispersion of the Coma Cluster", C. Pryor and M. J. Geller, *Ap.J.*, **457**, 278.
- 1984 "A Redshift Survey of the Poor Cluster A1142", M. J. Geller, T. C. Beers, G. D. Bothun, and J. P. Huchra, *A.J.*, **89**, 319.
- 1984 "The Morphology-Density Relation: The Group Connection", M. Postman and M. J. Geller, *Ap.J.*, **281**, 95.
- 1984 "Seven Poor Clusters of Galaxies", T. C. Beers, M. J. Geller, J. P. Huchra, D. W. Latham, and R. Davis, *Ap.J.*, **283**, 33.

- 1984 “Research Frontiers in Astronomy”, invited paper in *Research Frontiers and the National Agenda*, National Academy of Sciences Special Report (National Academy Press 1984).
- 1984 “Groups of Galaxies”, Invited Paper in *Clusters and Groups of Galaxies*, F. Mardirossian *et al.*, editors, (Reidel), pp. 353-366.
- 1984 “How To Find Galaxies at High Redshift”, L. Hartmann, J. Huchra, and M. J. Geller, *Ap.J.*, **287**, 487.
- 1984 “The Shane-Wirtanen Counts”, M. J. Geller, V. de Lapparent, and M. J. Kurtz, *Ap.J. (Letters)*, **287**, L55.
- 1985 “The Ultraviolet Variability of Seyfert I Galaxies”, G. Chapman, M. J. Geller, and J. P. Huchra, *Ap.J.*, **297**, 151.
- 1985 “The Magnitude-Redshift Relation for 561 Abell Clusters”, M. Postman, J. P. Huchra, M. J. Geller, and J. P. Henry, *A.J.*, **90**, 1400.
- 1985 “The X-Ray Cluster Abell 744”, M. J. Kurtz, J. P. Huchra, T. C. Beers, M. J. Geller, I. M. Gioia, T. Maccacaro, R. E. Schild, and J. R. Stauffer, *A.J.*, **90**, 1665.
- 1986 “The Galaxy Distribution and the Large-Scale Structure of the Universe”, M. J. Geller, V. de Lapparent, and M. J. Kurtz, invited paper in *Twelfth Texas Symposium on Relativistic Astrophysics*, M. Livio, editor, (New York Academy of Sciences).
- 1986 “The Shane-Wirtanen Counts: Systematics and Two-Point Correlation Function”, V. de Lapparent, M. J. Kurtz, and M. J. Geller, *Ap.J.*, **304**, 585.
- 1986 “A Slice of the Universe”, V. de Lapparent, M. J. Geller, and J. P. Huchra, *Ap.J. (Letters)*, **302**, L1.
- 1986 “The Cluster-Cluster Correlation Function”, M. Postman, M. J. Geller, and J. P. Huchra, *A.J.*, **91**, 1267.
- 1986 “An X-Ray and Optical Study of the Cluster of Galaxies A754”, D. Fabricant, T. C. Beers, M. J. Geller, P. Gorenstein, J. P. Huchra, and M. J. Kurtz, *Ap.J.*, **308**, 530.
- 1986 “Probes of Large-Scale Structure in the Corona Borealis Region”, M. Postman, J. P. Huchra, and M. J. Geller, *A.J.*, **92**, 1238.
- 1986 “Kinematics of H II Regions in the Blue Irregulars NGC 4214 and NGC 4449”, L. W. Hartmann, M. J. Geller, and J. P. Huchra, *A.J.*, **92**, 1278.
- 1987 “Large-Scale Structure in the Universe: Some Clues from Optical Data”, invited talk, *Vatican Workshop on Theory and Observational Limits in Cosmology*, W. Stoeger, editor.

- 1987 “Large-Scale Structure in the Universe: The Center for Astrophysics Redshift Survey”, M. J. Geller, J. P. Huchra, and V. de Lapparent invited talk, *Observational Cosmology*, IAU Symposium 124, (Dordrecht: D. Reidel).
- 1987 “The Center for Astrophysics Redshift Survey: Statistical Measures of Large-Scale Clustering”, V. de Lapparent, M. J. Geller, and J. P. Huchra, invited talk by V. de Lapparent in session organized by M. J. Geller at 13th Texas Symposium, M. Ulmer, editor.
- 1987 “Redshift Surveys”, J. P. Huchra and M. J. Geller, invited talk by J. P. Huchra in session organized by M. J. Geller at 13th Texas Symposium, M. Ulmer, editor.
- 1987 “Linear Clusters of Galaxies: A999 and A1016”, G.N.F. Chapman, M. J. Geller, and J. P. Huchra, *A.J.*, **94**, 571.
- 1988 “The Dynamics of the Corona Borealis Supercluster”, M. Postman, M. J. Geller, and J. P. Huchra, *A.J.*, **95**, 267.
- 1988 “Linear Clusters of Galaxies: A194”, G.N.F. Chapman, M. J. Geller, and J. P. Huchra, *A.J.*, **95**, 999.
- 1988 “Ly α Emission in Star-Forming Galaxies”, L. W. Hartmann, J. P. Huchra, M. J. Geller, P. O’Brien and R. Wilson, *Ap.J.*, **326**, 101.
- 1988 “Two Questions About the Large-Scale Distribution of Galaxies”, *The Structure of the Universe*, IAU Symposium 130, J. Audouze, editor, (Dordrecht: D. Reidel).
- 1988 “The Center for Astrophysics Redshift Survey: Luminosity Function and Two-Point Correlation Function”, V. de Lapparent, M. J. Geller, and J. P. Huchra, IAU Symposium 130, J. Audouze, editor, (Dordrecht: D. Reidel).
- 1988 “The Universe Nearby”, *Large-Scale Structure in the Universe*, A. Maeder, editor, (Geneva: Geneva Observatory).
- 1988 “The Mean Density and Two-Point Correlation Function for the CfA Redshift Survey Slices”, V. de Lapparent, M. J. Geller, and J. P. Huchra, *Ap.J.*, **332**, 44.
- 1988 “The Center for Astrophysics Redshift Survey”, J. P. Huchra, M. J. Geller, V. de Lapparent, and R. Burg, IAU Symposium 130, J. Audouze, editor, (Dordrecht: D. Reidel).
- 1988 “Galaxy and Cluster Redshift Surveys”, M. J. Geller and J. P. Huchra, *Proceedings of the Vatican Study Week on Large-Scale Motions in the Universe*, V. Rubin, editor.
- 1988 “The Kinematics and Dynamics of the Rich Cluster of Galaxies Abell 539”, E.C. Ostriker, J. P. Huchra, M. J. Geller, and M. J. Kurtz, *A.J.*, **96**, 1775.

- 1988 “Redshift Surveys and the Large-Scale Structure of the Universe”, M. J. Geller, International School of Physics “Enrico Fermi”, Melchiorri, editor, (Bologna: Società Italiana di Fisica).
- 1988 “The Center for Astrophysics Redshift Survey: Recent Results”, M. J. Geller and J. P. Huchra, *Large-Scale Structure and Motions in the Universe*, F. Mardirossian *et al.*, editors, (Dordrecht: Reidel).
- 1989 “The Luminosity Function for the CfA Survey Slices”, V. de Lapparent, M. J. Geller, and J. P. Huchra, *Ap.J.*, **343**, 1.
- 1989 “Groups of Galaxies in the Center for Astrophysics Redshift Survey”, M. Ramella, M. J. Geller, and J. P. Huchra, *Ap.J.*, **344**, 57.
- 1989 “Infall Patterns Around Rich Clusters of Galaxies”, E. Regös and M. J. Geller, *A.J.*, **98**, 755.
- 1989 “Experimental Issues in Research on the Large-Scale Structure of the Universe”, in *Particle Astrophysics — Forefront Experimental Issues*, E. Norman, editor, (World Scientific Publishing Co., Singapore).
- 1989 “Redshifts for a Sample of Fainter Galaxies in the First CfA Slice”, J. R. Thorstensen, G. A. Wegner, R. Hamwey, F. Boley, M. J. Geller, J. P. Huchra, M. J. Kurtz, and R. K. Mc Mahan, *A.J.*, **98**, 1143.
- 1989 “The Large-Scale Distribution of Galaxies”, *P.N.A.S.*, August 1989.
- 1989 “Mapping the Universe”, M. J. Geller and J. P. Huchra, *Science*, **246**, 897.
- 1990 “The CfA Redshift Survey: Data for the NGP +30 Zone”, J. P. Huchra, M. J. Geller, V. de Lapparent, and H. Corwin, *Ap.J. Suppl.*, **72**, 433.
- 1990 “The Two-Point Correlation Function for Groups of Galaxies in the Center for Astrophysics Redshift Survey”, M. Ramella, M. J. Geller, and J. P. Huchra, *Ap.J.*, **353**, 51.
- 1990 “Tracing Large-Scale Structure in the Universe”, *Dark Matter in the Universe*, H. Sato, H. Kodama, editors, (Springer-Verlag: Berlin).
- 1990 “Clusters of Galaxies: Structure, Infall, and Large-Scale Distribution”, *Clusters of Galaxies*, W. R. Oegerle, M. J. Fitchett, and L. Danly, editors, (Cambridge University Press: Cambridge).
- 1990 “A Deep Abell Cluster Redshift Survey”, J. P. Huchra, J. P. Henry, M. Postman, and M. J. Geller, *Ap.J.*, **365**, 66.
- 1990 “The Kinematics of Abell Clusters”, A. Zabludoff, J. P. Huchra, and M. J. Geller, *Ap.J. Suppl.*, **74**, 1.
- 1990 “Redshifts for Fainter Galaxies in the First CfA Slice: II”, G. Wegner, J. R. Thorstensen, M. J. Kurtz, M. J. Geller, and J. P. Huchra, *A.J.*, **100**, 1405.

- 1991 “Measures of Large-Scale Structure in the CfA Redshift Survey Slices”, V. de Lapparent, M. J. Geller, and J. P. Huchra, *Ap.J.*, **369**, 273.
- 1991 “The Evolution of Void-Filled Cosmological Structures”, E. Regös and M. J. Geller, *Ap.J.*, **377**, 14.
- 1991 “Redshift Surveys”, M. J. Geller and J. P. Huchra, invited talk by M. J. Geller at Blois and University of Maryland, published in both conference proceeding volumes.
- 1991 “Void Statistics of the CfA Redshift Survey”, M. S. Vogele, M. J. Geller, and J. P. Huchra, *Ap.J.*, **382**, 44.
- 1991 “Clustering Statistics of Two Samples from the CfA Redshift Survey”, M. S. Vogele, M. J. Geller, and J. P. Huchra, *Clusters and Superclusters of Galaxies*, Proceedings of NATO ASI Institute; M. Colless, *et al.*, editors.
- 1992 “The Distribution of Nearby Rich Clusters of Galaxies”, M. Postman, J. P. Huchra, and M. J. Geller, *Ap.J.*, **384**, 404.
- 1992 “The Distribution of Galaxies Within the ‘Great Wall’ ”, M. Ramella, M. J. Geller, and J. P. Huchra, *Ap.J.*, **384**, 396.
- 1992 “The Velocity-Distance Relation for Galaxies on a Bubble”, G. D. Bothun, M. J. Geller, M. J. Kurtz, J. P. Huchra, and R. E. Schild, *Ap.J.*, **395**, 347.
- 1992 “Large-Scale Clustering in the CfA Redshift Survey”, M. S. Vogele, C. Park, M. J. Geller, and J. P. Huchra, *Ap.J. (Letters)*, **391**, L5.
- 1992 “Discovery of Intermediate Redshift Cluster of Galaxies in the ROSAT NEP Field”, R. Burg, R. Giacconi, J. Huchra, J. MacKenty, B. McLean, M. Geller, G. Hasinger, R. Marzke, M. Schmidt, and J. Trümper, *Astronomy and Astrophysics*, **259**, L9.
- 1992 “Visualizing the Universe”, M. J. Geller, E. E. Falco, D. G. Fabricant, and B. Estus, *Proceedings for Visualization 1992*, A. E. Kaufman, G. M. Nielson, editors, (IEEE Computer Society Press: Los Alamitos), pp. 390-397.
- 1993 “An X-Ray Method for Detecting Substructure in Galaxy Clusters: Application to Perseus, A2256, Centaurus, Coma, and Sersic 40/6”, J. J. Mohr, D. G. Fabricant, and M. J. Geller, *Ap.J.*, **413**, 492.
- 1993 “A Study of the Galaxy Cluster A119”, D. G. Fabricant, M. J. Kurtz, M. J. Geller, A. I. Zabludoff, P. Mack, and G. Wegner, *A.J.*, **105**, 788.
- 1993 “Are Groups of Galaxies Virialized Systems?” A. Diaferio, M. Ramella, M. J. Geller, and A. Ferrari, *A.J.*, **105**, 2035.
- 1993 “The Kinematics of Dense Clusters of Galaxies. I. The Data”, A. I. Zabludoff, M. J. Geller, J. P. Huchra, and M. S. Vogele, *A.J.*, **106**, 1273.

- 1993 “The Kinematics of Dense Clusters of Galaxies. II. The Distribution of Velocity Dispersions”, A. I. Zabludoff, M. J. Geller, J. P. Huchra, and M. Ramella, *A.J.*, **106**, 1301.
- 1993 “A Morphology-Cosmology Connection for X-Ray Clusters”, A. E. Evrard, J. J. Mohr, D. G. Fabricant, and M. J. Geller, *Ap.J. (Letters)*, **419**, L9.
- 1993 “A Technique for Detecting Substructure in Cluster Velocity Distributions”, A. I. Zabludoff, M. Franx, and M. J. Geller, *Ap.J.*, **419**, 47.
- 1993 “Measures of Large-Scale Structure in the CfA Redshift Survey”, M. S. Vogeley, M. J. Geller, J. P. Huchra, C. Park, and J. R. Gott, *Observational Cosmology*, ASP Conference Series; G. Chincarini, T. Maccacaro, and D. Maccagni, editors.
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FILMS

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- 1991 Television Commercial for NTT Data, Japan (written and narrated by M. Geller for the Dentsu Advertising Agency).
- 1991 “Where the Galaxies Are”, (with Boyd Estus) — a video for the National Air and Space Museum; CINE Gold Eagle (1992); Gold Award, Houston Film Festival (1992); Silver CINDY Award (1991); Silver QUESTAR Award (1992); Bronze Apple Award, National Educational Film and Video Festival (1991); Certificate of Creative Excellence, U.S. Industrial Film and Video Festival (1991); Festival International du Film Scientifique du Québec (1993).
- 1993 “So Many Galaxies . . . So Little Time”, (with Boyd Estus) — a 40-minute film about mapping the universe; Bronze Award, Charleston International Film Festival (1993); Melbourne International Film Festival Kino Award (1994).
- 1993 “The Galaxy Trip”, (with Boyd Estus) — a 5-minute short displaying the graphics from *So Many Galaxies . . . So Little Time*.
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