

Curriculum Vitæ

Mark Steinberger

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Education:

A.B. 1973 Temple University, summa cum laude
M.S. 1974 University of Chicago, Meyer award
Ph.D. 1977 University of Chicago

Fields of interest:

Geometric and algebraic topology with an emphasis on group actions on manifolds; Electronic scholarly communication

Professional Experience:

1977–79 CLE Moore Instructor, MIT
1979–80 AMS Postdoctoral Research Fellow
1980–83 Assistant Professor, Cornell University
1983–87 Assistant Professor, Northern Illinois University
Fall 85 Visiting Assistant Professor, University of Rochester
1986–87 Assistant Professor, Rutgers University
1987– Associate Professor, University at Albany

Grants and Awards:

1. AMS Postdoctoral Research Fellow 1979–80
2. Northern Illinois University Research Grant 1985
3. NSF Research Grants: 1978–80 and 1985–89
4. Support for Algebraic and Geometric Topology Conference, June 19–25, 1988, from the NSF, the Vice President for Research, the College of Arts and Sciences, and the Department of Mathematics and Statistics
5. Support for the Northeast Topology Conferences in 1989, 1990, and 1992 from the Vice President for Research, the College of Arts and Sciences, and the Department of Mathematics and Statistics
6. Journal support from the Vice President for Research, 1994–97
7. Certificate of Appreciation, College of Arts and Sciences, 1995
8. Support for New York Journal of Mathematics Conference, June 9–13, 1997, from the NSF, the Vice President for Research, the College of Arts and Sciences, and the Department of Mathematics and Statistics
9. Journal support from the Vice President for Research, 1997–2000

Editorships:

Editor in Chief, New York Journal of Mathematics, 1994–present
 Managing Editor, Advances in Theoretical and Mathematical Physics,
 2000–2004

Meetings chaired:

1. AMS special session, Group Actions on Manifolds, Newark, NJ, April 1987 (with John Randall)
2. Algebraic and Geometric Topology, University at Albany, June 19–25, 1988 (with Tim Lance)
3. Northeast Topology Conference, University at Albany, September 22–24, 1989 (with Tim Lance)
4. Northeast Topology Conference, University at Albany, November 1–3, 1990 (with Tim Lance)
5. Northeast Topology Conference, University at Albany, October 9–11, 1992 (with Tim Lance)
6. New York Journal of Mathematics Conference, University at Albany, June 9–13, 1997 (with Jerry Bona, Karin Reinhold, Joe Rosenblatt, Cesar Silva, and Birgit Spéh)

Books:

1. *H_∞ ring spectra and their applications* (with R. Bruner, J.P. May and J. McClure), Lecture Notes in Mathematics vol. 1176, Springer-Verlag, Berlin, 1986.
2. *Equivariant stable homotopy theory* (with L.G. Lewis and J.P. May), Lecture Notes in Mathematics vol. 1213, Springer-Verlag, Berlin, 1986.
3. *Algebra*, PWS Publishing Co., Boston, 1994.
4. *A course in low-dimensional topology*, in preparation. Current version available at <http://albany.edu/~mark/geom.pdf>.

Articles:

1. *On the equivalence of the two definitions of the algebraic K-theory of a topological space*, Proc. Pure Math Aarhus 1978, Lect. Notes in Math. no. 763, Springer-Verlag, Berlin, 1979, 317–331.
2. *Covering homotopy properties of maps between CW complexes or ANR's* (with J. West), Proc. AMS **92** (1984), 573–577.
3. *Equivariant h-cobordisms and finiteness obstructions* (with J. West), Bull. AMS **12** (1985), 217–220.
4. *The classification of PL fibrations*, Michigan Math. J. **33** (1986), 11–26.
5. *Equivariant handles in finite group actions* (with J. West), Geometry and Topology (McCroory and Shifrin, ed.), Marcel Dekker, New York, 1987, 277–295.

6. *Approximation by equivariant homeomorphisms*, I (with J. West), Trans. AMS **302** (1987), 297–317.
7. *On the geometric topology of locally linear actions of finite groups* (with J. West), Banach Center Publications **18** (1988), 181–204.
8. *The equivariant topological s-cobordism theorem*, Invent. Math. **91** (1988), 61–104.
9. *PL fibrations are fibrations in the PL category*, Topology and its Applications **29** (1988) 219–222.
10. *Nonlinear similarity begins in dimension six* (with S. Cappell, J. Shaneson and J. West), Amer. J. Math. **111** (1989) 717–752.
11. *The classification of nonlinear similarities over \mathbf{Z}_{2^r}* (with S. Cappell, J. Shaneson, S. Weinberger and J. West), Bull AMS. **22** (1990) 51–57.
12. *Electronic Mathematics Journals*, Notices of the American Mathematical Society **43** (1996), 13–16.
13. *The Demands on Electronic Journals in the Mathematical Sciences*, Journal of Electronic Publishing 4, no. 2, December, 1998.

Papers Read at Professional Meetings:

1. Topology Conference, Aarhus University, Denmark 1978, “Homology operations for H_∞ ring spectra.”
2. Midwest Topology Seminar, University of Chicago, January 1979, “On the equivalence of the two definitions of the algebraic K-theory of a topological space.”
3. Cornell Topology Festival, May 1983, “Equivariant PL fibre properties.”
4. AMS Summer Meeting, Albany, 1983, “Controlled equivariant Whitehead groups and equivariant Hilbert cube manifolds.”
5. Conference on Group Actions, Princeton University, April 1984, “Equivariant finiteness obstructions.”
6. CBMS Conference, Notre Dame University, July 1984, “The classification of equivariant h-cobordisms up to topological equivalence.”
7. Topology Conference, University of Georgia, July 1984, “Equivariant h-cobordisms and finiteness obstructions.”
8. Upstate New York Topology Seminar, Syracuse University, October 1984, “Equivariant topological h-cobordisms.”
9. Special session in algebraic K-theory, University of Illinois at Chicago, March 1985, “Equivariant topological torsion and lower algebraic K-theory.”
10. Cornell Topology Festival, May 1985, “Equivariant topological torsion.”
11. 20th Annual Spring Topology Conference, University of Southwestern Louisiana, April 1986, “The equivariant annulus conjecture.”
12. Algebraic Topology Conference, Humboldt State University, July 1986, “Nonlinear similarities in dimension 6 (and higher).”

13. AMS Special Session, Group Actions on Manifolds, Newark, NJ, April 1987, “Nonlinear similarities in dimension ≤ 6 .”
14. CBMS Conference for Sylvain Cappell, VPI & SU, July 1987, “The topological classification of linear representations.”
15. Fall Foliage Topology Seminar, Moosilauke, NH, October 1987, “The topological classification of linear representations.”
16. Albany Topology Conference, University at Albany, June 1988, “An overview of de Rham’s problem.”
17. Upstate New York Topology Seminar, Syracuse University, April 1989, “G-Surgery Theory and de Rham’s Problem.”
18. AMS special session on surgery and singular spaces, Philadelphia, PA, October 1991, “ G -surgery up to topological simple homotopy.”
19. Workshop on the Classification of Higher Dimensional Manifolds, University of Tennessee, Knoxville, TN, April 23–25, 1992, “ G -surgery and the classification of nonlinear similarities.”
20. Fourth annual Yale-Vassar Topology Day, July 13, 1995, “Nonlinear Similarity.”
21. Conference on Electronic Communication in Mathematics, The Geometry Center, May 29–June 1, 1997, “Making optimal use of the electronic environment.”
22. Third Workshop on Desktop Computing in the EOS Era (sponsored by NASA), Resort at the Mountain, Welches, Oregon, July 29–30, 1997, “The Electronic Environment for Scholarly Journals.”
23. Metadata Workshop: Qualifying WebObjects, University of Osnabrück, Osnabrück, Germany, October 13–15, 1997, “The Electronic Environment for Mathematical Research Documents.”
24. Future of Mathematical Communications, 1999, Mathematical Sciences Research Institute, Berkeley, CA, December 1-5, 1999, “Journal Quality.”

Professional Service:

1. Organizer of six mathematics conferences since the spring of 1987.
2. Founding Editor-in-Chief, New York Journal of Mathematics. Editor-in-Chief 1994–.
3. Creator of electronic version of Pacific Journal of Mathematics, 1997–2004; systems design, quality control and finishing for paper version, 2000–05. Similarly for the Journal of Differential Geometry, 2000–04.
4. Managing Editor, Advances in Theoretical and Mathematical Physics, 2000–04.
5. Member, advisory committee for the Mathematics ArXiv (formerly known as xxx), an indexed repository for research papers in mathematics, founded at Los Alamos National Laboratories with support from by the NSF and the Department of Energy, currently at Cornell University, 1998–.
6. Owner, EMJ electronic discussion list for discussion of electronic mathematics journals, 1997–.