

Curriculum Vitae: Marjorie Shapiro

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Education :

A.B. in Physics, Magna Cum Laude, Harvard University, June 1976.
PhD. in Physics from University of California, Berkeley, Dec 1984.

Professional Experience :

Research Associate, Harvard University May 1985-July 1987.
Assistant Professor, Harvard University July 1987 - July 1989.
Loeb Associate Professor, Harvard University July 1989 - Dec 1989.
Assistant Professor, University of California, Berkeley Jan 1990 - June 1992.
Associate Professor, University of California, Berkeley July 1992 - June 1994.
Professor, University of California, Berkeley June 1994 - present (Chair, June 2004 - 2007)
Faculty Senior Scientist, Lawrence Berkeley National Laboratory, July 1992 - present

Awards :

Phi Beta Kappa, Iota chapter, September 1975.
Faculty Associate Award for excellence in teaching, University of California, Berkeley, 1977.
Presidential Young Investigator Award, NSF, 1989.
Fellow of the American Physical Society, 1992.

Committee Membership :

- Fermilab Users Executive Committee, June 1985 - June 1987.
- Fermilab Computer Coordinating Committee, Sept 1986 - June 1989;
Chair, Sept 1986 - June 1989.
- HEPAP Subpanel on the SSC and Physics in the 1990's, Jan 1989.
- Fermilab Physics Advisory Committee, April 1989 - June 1993.
- HEPAP Subpanel on the U.S. High Energy Physics Research Program for the 1990's, Jan - April 1990.
- Selection Committee, SSC Fellowship Program, Oct 1991 - June 1993.
- CESR Program Advisory Committee, Sept 1994 - Sept 1996.
- SLAC Scientific Policy Committee, April 1995 - April 1998.
- National Science Foundation Special Emphasis Panel, Panel on Experimental Particle Physics, Fall 1995.
- National Research Council, Committee on Experimental Particle Physics 1995 - 1997.
- National Science Foundation Review Panel on Elementary Particle Physics Aug 1996.
- HEPAP Subpanel on Planning for the Future of U.S. High Energy Physics 1997 - 1998.
- HEPAP (High Energy Physics Advisory Panel) 1997 - 2000.
- Fermilab Run II Computing Steering Committee 1998 - 2000.
- Visiting Committee to the Harvard Physics Department, 1999

- Member, Panofsky Prize Selection Committee, American Physical Society, 2000
- Chair, Panofsky Prize Selection Committee, American Physical Society, 2001
- Physics Advisory Board, Carnegie Mellon University, 2001
- Member, P5 (Panel for the Prioritization of Particle Physics Projects), 2003 - 2004.
- Member, External Review Committee to the Department of Physics, University of Toronto, Fall 2004.
- Selection Committee, Outstanding Junior Investigators Award (DOE), 2003 and 2004.
- Member, Visiting Committee to the Harvard Physics Department, 2001 and 2005 (Chair, 2005)
- Member, Tanaka Prize Committee, Division of Particles and Fields, APS, 2005 and 2006
- Member, Graduate Program Review Committee, Department of Physics, University of California, Riverside, 2006
- Member, External Review Committee for the Harvard University Planning Committee on Science and Engineering Report on the Future of Science at Harvard, 2006
- Chair, External Review Committee, Department of Physics, University of California, Santa Barbara, 2007
- Member, P5 Panel for the Prioritization of Particle Physics Projects), 2008.
- Member, FRA Visiting Committee for Fermilab Scientific Programs 2008-2011
- Member, External Review Committee, Department of Physics, University of California, Los Angeles, 2008
- Member, P5 (Panel for the Prioritization of Particle Physics Projects), 2010
- Member, Committee to provide An Assessment of the Science Proposed for the Deep Underground Science and Engineering Laboratory (DUSEL), National Research Council, 2010-2011.
- Member, Search Committee, Director of SLAC National Laboratory, 2012.
- Member, Search Committee (and Chair of Faculty Subcommittee), Chancellor of University of California, Berkeley, 2012.
- Member, High Energy Physics Facilities Prioritization Committee (advisory to the Office of Science), 2013.
- Member, UC Observatory Board, 2013-present.
- Member, External Review Committee, Department of Physics, Northwestern University, 2014

Other Professional Activities :

- Co-leader, Strong Interaction Group, Snowmass Conference on Physics in the 1990's, July 1988.
- Lecturer, Banff Summer School on Particle Physics, Aug 1988.
- Lecturer, SLAC Summer Institute on Particle Physics, Aug 1989.
- Lecturer, Theoretical
- Advanced Study Institute in Elementary Particle Physics, June 1991.
- Convener, Strong Interaction Sessions, Division of Particles and Fields Meeting, Batavia, Ill. Fall 1992.
- Convener, Weak Decay Sessions, International Conference on High Energy Physics, Glasgow Scotland July 1994.
- International Organizing Committee, The Conference on B Physics and CP Violation, Honolulu March 1997
- Project Manager for Computing and Software, Collider Detector at Fermilab (CDF), 1998 - 2001.
- Lecturer, CERN Academic Lecture Series, Spring 1999.

- International Organizing Committee, CHEP-2000, Spring 2000.
- Co-convenor CDF B Physics Group, January 2003 to December 2004.
- International Organizing Committee, Flavor Physics and CP Violation (FPCP) conference, 2002 - 2008.
- International Organizing Committee, BEACH conference on Hyperons, Charm and Bottom Physics, 2002 - present.
- CDF representative to the Heavy Flavor Averaging Group (HFAG) 2002-2005
- Lecturer, Outstanding Woman Scientist Lecture Series, University of Texas at Austin, December 2003.
- Lecturer, 1st CERN-Fermilab Hadron Collider Physics Summer School, Batavia Illinois, Summer 2006.
- Co-convenor ATLAS Luminosity Working Group 2008-2010.
- ATLAS representative to the LHC Physics Centre Rate Normalization Working Group, 2010-2011.
- Co-convenor for Top Physics Track, XXIst International Europhysics Conference on High Energy Physics, 2011.
- Local organizing committee, Conference for Undergraduate Woman in Physics, UC Berkeley, 2014.
- Program and organizing committee, "The Art of Experiment," a two day symposium in honor of David Nygren, Lawrence Berkeley National Laboratory, 2014.

Publications : Over 770 publications in refereed journals. Selected highlights include:

- **Measurement of the moments of the hadronic invariant mass distribution in semileptonic B decays**, D. Acosta *et al.* [CDF Collaboration], Phys. Rev. D **71**, 051103 (2005).
<http://arxiv.org/abs/hepex/0502003>
- **Observation of $B_0(s)$ - anti- $B_0(s)$ Oscillations**, A. Abulencia *et al.* [CDF Collaboration], Phys. Rev. Lett. **97**, 242003 (2006).
<http://arxiv.org/abs/hep-ex/0609040>
- **Luminosity Determination in pp Collisions at $\sqrt{s} = 7$ TeV Using the ATLAS Detector at the LHC**, G. Aad *et al.* [ATLAS Collaboration], Eur. Phys. J. C **71**, 1630 (2011).
<http://arxiv.org/abs/arXiv:1101.2185>
- **Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector**, G. Aad *et al.* [ATLAS Collaboration], Eur. Phys. J. C **71**, 1795 (2011).
<http://arxiv.org/abs/arXiv:1109.5816>
- **Measurement of the WZ production cross section and limits on anomalous triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector**, G. Aad *et al.* [ATLAS Collaboration], Phys. Lett. B **709**, 341 (2012).
<http://arxiv.org/abs/arXiv:1111.5570>
- **Search for pair production of a new quark that decays to a Z boson and a bottom quark with the ATLAS detector**, G. Aad *et al.* [ATLAS Collaboration], Phys. Rev. Lett. **109**, 071801 (2012).
<http://arxiv.org/abs/arXiv:1204.1265>
- **Underlying event characteristics and their dependence on jet size of charged-particle jet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector**, G. Aad *et al.* [ATLAS Collaboration], Phys. Rev. D **86**, 072004 (2012).
<http://arxiv.org/abs/arXiv:1208.0563>
- **Jet energy measurement with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 7$ TeV**, G. Aad *et al.* [ATLAS Collaboration], Eur. Phys. J. C **73**, 2304 (2013).
<http://arxiv.org/abs/arXiv:1112.6426>

- **Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector**, G. Aad *et al.* [ATLAS Collaboration]. JHEP **1405**, 068 (2014).
<http://arxiv.org/abs/arXiv:1402.6263>
- **Search for WZ resonances in the fully leptonic channel using pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**, G. Aad *et al.* [ATLAS Collaboration], Phys. Lett. B **737**, 223 (2014).