

Pete Riley
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EDUCATION

Rice University, Houston, Texas: Ph.D., 1994.
University of Sussex, Brighton, England: M.Sc., 1989.
University College Cardiff, Cardiff, Wales: B.Sc., 1988.

EXPERIENCE

Pete Riley obtained his Ph.D. from the department of Space Physics and Astronomy at Rice University under R. A. Wolf in May 1994. After spending two years at the University of Arizona, he became a postdoctoral research fellow, and subsequently technical staff member, at Los Alamos National Laboratory, studying a wide range of solar and heliospheric topics. Currently, he is a member of the Solar and Heliospheric Physics group at Science Applications International Corporation in San Diego. He is particularly interested in 3-D MHD simulations of large-scale heliospheric processes, including solar wind streams and coronal mass ejections but is also enjoys working on the micro-scale physics of Alfvén wave propagation, discontinuities, shocks and turbulence. Pete analyzes a variety of solar and interplanetary datasets, and is a team member of the STEREO, Ulysses, and ACE plasma instrument teams. He has published over 25 papers in the field of space physics, and particularly in the area of heliospheric physics. He regularly reviews papers for the *Journal of Geophysical Research*, *Geophysical research letters*, *Astrophysical Journal*, and *Astrophysical Journal Letters*, among others, and was awarded the 1997 Editors' citation for excellence in refereeing for the *Journal of Geophysical Research - Space Physics*. He is a member of the American Geophysical Union and the American Astronomical Society. Currently, he serves on NFS's SHINE steering committee (chair), the CCMC Operations Working Group Committee and the Sentinels Science Definition Team (chair of modeling/geospace). Finally, he serves as editor for Reviews of Geophysics and associate editor for *Geophysical Research Letters*.

SELECTED PUBLICATIONS:

Pete Riley, J. T. Gosling, and N. U. Crooker, Ulysses Observations of the Magnetic Connectivity between CMEs and the Sun, *The Astrophysical Journal*, Volume 608, Issue 2, pp. 1100-1105, 2004.

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Pete Riley, J. A. Linker, and Z. Mikic, Modeling the heliospheric current sheet: Solar-cycle variations, *J. Geophys. Res.*, DOI 10.1029/2001JA000299, 107, 2002.

Pete Riley, Z. Mikic, J. A. Linker, and T. A. Zurbuchen, Understanding the solar sources of in situ observations, in Solar wind 10, 79, AIP Press, Editors M. Velli, R. Bruno, and F. Malara, 2002.

Pete Riley, Jon Linker, and Zoran Mikic, An empirically-driven global MHD model of the corona and inner heliosphere, *J. Geophys. Res.*, 106, 15,889, 2001.

Pete Riley, J. T. Gosling, and V. J. Pizzo, Investigation of the polytropic relationship between density and temperature within interplanetary coronal mass ejections using numerical simulations, *J. Geophys. Res.*, 106, 8291, 2001.