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Professional Preparation:

1984: Ph.D., Physics, University of California, San Diego
1981: M.S., Physics, University of California, San Diego
1976: A.B., Physics, University of California, Berkeley

Appointments:

2003- Research Scientist, NWRA/CoRA Division
1997-2002: Associate Research Professor, New Jersey Institute of Technology
1996-1997: Senior Research Scientist, Windrush Research Corporation
1995-1996: Research Scientist, Bartol Research Institute, University of Delaware
1993-1994: Research Associate, The Pennsylvania State University
1992-1993: Lecturer in Physics, California Institute of Technology
1990-1993: Senior Research Fellow, California Institute of Technology
1987-1990: Postdoctoral Fellow, California Institute of Technology
1985-1987: Resident Research Associate, Jet Propulsion Laboratory, California Institute of Technology
1985: Postdoctoral Fellow, Harvard-Smithsonian Center for Astrophysics
1984: Postdoctoral Fellow, University of California, San Diego

Recent Publications:

Woodard, M.F.: 2009, "Seismic Detection of Solar Mesogranular-Scale Flow", *Ap. J.* **706**, L62

Woodard, M.F.: 2007, "Probing Supergranular Flow in the Solar Interior", *Ap. J.* **668**, 1189.

Woodard, M.F.: 2006, "The Seismic Correlation Signature of Moderate-Scale Flow in the Sun", *Ap. J.* **649**, 1140.

Woodard, M.F.: 2002, "Solar Subsurface Flow Inferred Directly from Frequency-Wavenumber Correlations in the Seismic Velocity Field", *Ap. J.* **565**, 634.

Woodard, M.F.: 2000, "Theoretical Signature of Solar Meridional Flow in Global Seismic Data", *Solar Phys.* **197**, 11.

Woodard, M.F.: 1998, "Effect of Subsurface Inhomogeneities on the Statistics of Solar Oscillation Power Spectra", *Solar Phys.* **180**, 19.

Woodard, M.F. and Libbrecht, K.G.: 1993, "Observations of Time Variation in the Sun's Rotation", *Science* **260**, 1778.

Woodard, M.F.: 1989, "Distortion of High-Degree Solar p-Mode Eigenfunctions by Latitudinal Differential Rotation", *Ap. J.* **347**, 1176.

Other Publications:

Woodard, M.F. and Chae, J.: 1999, "Evidence for Non-Potential Magnetic Fields in the Quiet Sun", *Solar Phys.* **184**, 239.

Taylor, S.F., Varsik, J.R., Woodard, M.F., and Libbrecht, K.G.: 1998, "Spatial Dependence of Solar-Cycle Changes in the Sun's Luminosity", *Solar Phys.* **178**, 1.

Woodard, M.F. and Libbrecht, K.G.: 1993, "Solar Activity and Oscillation Frequency Settings", *Ap. J. Letters* **402**, L77.

Woodard, M.F., Kuhn, J.R., Murray, N., and Libbrecht, K.G.: 1991, "Short-Term Changes in Solar Oscillation Frequencies and Solar Activity", *Ap. J. Letters* **373**, L81.

Woodard, M.F. and Marti, K.: 1985, "Clusters and Cycles in the Cosmic Ray Age Distribution of Meteorites", *International Cosmic Ray conference proceedings, La Jolla* **5**, 402.