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Birth date July 5, 1970

Education **Ph.D, Space Plasma Physics**, 1998; GPA 3.7
University of Maryland College Park, MD 20742
M.S., Physics, 1997; GPA: 3.7
University of Maryland College Park, MD 20742
B.S., Physics, Magna Cum Laude, 1993 GPA: 3.9
Clarkson University Potsdam, NY 13699

Research and Work Experience	Research Assistant Professor 1999 to present	Department of Physics and Astronomy Dartmouth College
	Faculty Research Assistant 1998 to 1999	Space Plasma Physics Group University of Maryland
	Graduate Research Assistant 1994 to 1998	Space Plasma Physics Group University of Maryland
	Graduate Teaching Assistant 1993 to 1994	Department of Physics University of Maryland

Honors and Awards **Group Achievement Award**, National Aeronautics and Space Administration, 1998
Outstanding Student Paper Award, American Geophysical Union, Fall Meeting, 1998

Relevant Publications Wiltberger, M., T. I. Pulkkinen, J. G. Lyon, and C. C. Goodrich, "MHD simulation of the magnetotail during the December 10, 1996 substorm", *J. Geophys. Res.*, in press, 2000.

Pulkkinen, T. I. and M. Wiltberger, "Thin current sheet evolution as seen in observations, empirical models, and MHD simulations", *Geophys. Res. Lett.*, in press, 2000.

Lopez, R. E, M. Wiltberger, J. G. Lyon, C. C. Goodrich, and K. Papadopoulos, "MHD simulations of the response of high-latitude potential patterns and polar cap boundaries to sudden southward turnings of the interplanetary magnetic field", *Geophys. Res. Lett.*, 967-970, 26, 1999.

Goodrich, C. C., M. Wiltberger, R. E. Lopez, K. Papadopoulos and J. G. Lyon, "An Overview of the Impact of the January 10-11, 1997 Magnetic Cloud on the Magnetosphere via Global MHD Simulation", *Geophys. Res. Lett.*, 2537-2540, 25, 1998.

Pulkkinen, T. I. and M. Wiltberger, "Global magnetospheric response to IMF driving: ISTP observations, empirical modeling, and MHD simulations", *Physics and Chemistry of the Earth*, 163-166, 1998.

Other Publications McNutt Jr., Ralph L., J. G. Lyon, C. C. Goodrich, and M. Wiltberger, "3D MHD simulations of the Heliosphere-VLISM Interaction", in Proc. Solar Wind Nine, edited by S. R. Habbal, R. Esser, J. V. Hollweg, and P. A. Isenberg, 823-826, 1999.

Pulkkinen, T. I. and M. Wiltberger, "Thin current sheet evolution as seen in observations, empirical models, and MHD simulations", *Geophys. Res. Lett.*, submitted, 1999.

Lyon, J., R. E. Lopez, C. Goodrich, M. Wiltberger, and K. Papadopoulos, "Simulation of the March 9, 1995 Substorm: Auroral Brightening and the Onset of Lobe Reconnection", *Geophys. Res. Lett.*, 25, 3039-3042, 1998.

Pulkkinen, T. I., D. N. Baker, M. Wiltberger, C. C. Goodrich, R. E. Lopez and J. G. Lyon, "Pseudobreakup and substorm onset: observations and MHD simulations compared", *J. Geophys. Res.*, 14847-14854, 103, 1998.

Wiltberger, M. , K. Papadopoulos, R. E. Lopez, C. C. Goodrich and J. G. Lyon, "Effects of northward turnings on the initiation of substorms in global MHD simulations", in Proc. International Conference on Substorms-4, edited by S. Kokubun and Y. Kamide, 287-290, 1998.

**Synergistic
Activities**

Development of web based tools for distribution of simulation results

**Other
Collaborators**

S. E. Elkington, J. A. Fedder, M. K. Hudson, C. C. Goodrich, P. Guzdar, R. E. Lopez, J. G. Lyon, G. Milikh, T. I. Pulkkinen, X. Shao

Graduate Advisor Dennis Papadopoulos, Department of Physics, University of Maryland

**Post-Doctoral
Advisors**

John G. Lyon, Department of Physics and Astronomy, Dartmouth College
Mary K. Hudson, Department of Physics and Astronomy, Dartmouth College