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Ph.D. Univ. of Michigan, Atmospheric and Space Science

# Honors and awards

PI of NASA Grant, “Remote Diagnosis of the Solar Wind”, 2009-2012

# Research Activity

- Study of the interaction between Saturn's magnetospheric plasma and Enceladus using Cassini observations and MHD (BATS-R-US) simulations
- Study of CME-comet interactions using STEREO observations and MHD (BATS-R-US) simulations

# Papers published

- **Jia, Y.-D.**, C. T. Russell, K. K. Khurana, Y. J. Ma, J. S. Leisner, M. K. Dougherty (2010), Time-varying magnetospheric environment near Enceladus as seen by the Cassini magnetometer, *Geophys. Res. Lett.*, 37(9), L09203, doi:10.1029/2010GL042948.
- **Jia, Y.-D.**, C. T. Russell, K. K. Khurana, Y. J. Ma, D. Najib, and T. I. Gombosi (2010), The interaction of Saturn's magnetosphere and its moons 2: Shape of the Enceladus plume, *J. Geophys. Res.*, 115, A04215, doi:10.1029/2009JA014873.
- **Jia, Y.-D.**, C. T. Russell, K. K. Khurana, J. S. Leisner, T. I. Gombosi (2010), The interaction of Saturn's magnetosphere and its moons 1: Interaction between co-rotating plasma and standard obstacles, *J. Geophys. Res.*, 115, A04214, doi:10.1029/2009JA014630.
- Jones, G. H., C. S. Arridge, A. J. Coates, G. R. Lewis, S. Kanani, A. Wellbrock, D. T. Young, F. J. Crary, R. L. Tokar, R. J. Wilson, T. W. Hill, R. E. Johnson, D. G. Mitchell, J. Schmidt, S. Kempf, U. Beckmann, C. T. Russell, **Y. D. Jia**, M. K. Dougherty, J. H. Waite, and B. A. Magee (2009), Fine jet structure of electrically charged grains in Enceladus' plume, *Geophys. Res. Lett.*, 36, L16204, doi:10.1029/2009GL038284