

Arjun Tan

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Education

Ph.D., Physics, 1979, University of Alabama in Huntsville; M.S., Physics major, Astronomy minor, 1974, University of Florida; M.Sc., Physics, 1965; B.Sc.Hons., Physics, 1963, University of Calcutta.

Employment

Alabama A & M University, Professor of Physics, 1988-Present; Associate Professor, 1985-1988; Assistant Professor, 1981-1985; University of Alabama in Huntsville, Lecturer, Summer 1981; Newberry College, Visiting Instructor of Mathematics/Physics, 1980-1981; University of Florida, Post-Doctoral Associate/Instructor, 1979-1980; University of Alabama in Huntsville, Research Associate, Summer 1979; NOAA Space Environmental Laboratory, Guest Worker, 1977-1979; US Naval Research Laboratory, Senior Summer Faculty, 1996; NASA Johnson Space Center, Summer Faculty, 1994, 1995; USAF Kirtland Air Force Base, Summer Associate, 1992, 1993; US Army Missile Command, Summer Faculty, 1989; NASA Johnson Space Center, Summer Faculty, 1987, 1988; USAF Arnold Air Force Base, Summer Faculty, 1986; Lawrence Livermore National Laboratory, Summer Physicist, 1985; US Army Missile Command, Summer Physicist, 1981, 1983, 1984; NASA Marshall Space Flight Center, Summer Faculty, 1981; Krishnagar Women's College, West Bengal, India, Lecturer-in-Physics, 1967-1971; Visva-Bharati University, West Bengal, India, Instructor, 1966-1967; Jadavpur University, West Bengal, India, Summer Faculty, 1968.

Services

Reviewer, Planetary and Space Science, 2004; Reviewer, Journal of Geophysical Research, 2003; Reviewer, The Mathematical Scientist, 2001; Reviewer, Physics Teacher, 2001; Reviewer, Radio Science, 2000; Referee, Mathematics Teacher, 1986-1996; Referee, American Journal of Physics, 1981, 1985; Associate Editor of Theta, a British Journal of Mathematics, 1994-1999; Technical Editor, Encyclopedia of Sports Science, MacMillan, 1995; Reviewer of NASA Proposals, 1990, 1991; Assistant Editor, Alabama A & M University Journal, 1989-1991; External Assessor, University of Manitoba, 2001; Referee for Promotion to Professorship, Saha Institute of Nuclear Physics, 1986; Ph.D. Thesis Examiner, University of Calcutta, 1985.

Research Grants and Contracts

Principal Investigator (PI), NASA Grant NNG04GD59G, 2004-2006; PI, AFOSR Grant F49620-02-1-0310, 2002-2005; PI, NASA Subcontract NAG5-11995, 2002-2005; PI, NASA Grant NAG5-10202, 2001-2003; PI, ONR Grant, N00014-97-1-0267, 1997-2003; PI, AFOSR Sub-Contract, 1993-1994; Investigator, NSF Grant 8802971, 1988-1998; PI, NASA Grant NAGW-1067, 1987-1991; PI, NSF Grant ATM-8611625, 1986-1988; PI, NSF Grant, ATM-8308276, 1983-1985.

Research Publications

Author of 107 journal publications, 85 Other periodical publications including abstracts; 42 Research Reports; 9 Book articles; and 1 Book. Below are selected recent publications:

Effect of Sun's magnetic field polarity on interplanetary ..., *Geophys. Res. Let.*, 30, 2258, 2003.

Latitudinal effect on seasonal variation of geomagnetic activity, *J. Geophys. Res.*, 108(A5), 1204, 2003.

Disturbances in the solar wind related to geomagnetic storms, *J. Geophys. Res.*, 108(A3), 1134, 2003.

Analysis of the Delta-180 collision experiment in space, *J. Astronaut. Sci.*, 49, 585, 2001.

The nighttime enhancement of NmF2 at Jicamarca on ..., *Ind. J. Radio & Space Phys.*, 29, 146, 2000.

Bucky ball and soccer ball models for the Earth's continents, *Math. Spectr.*, 32, 54, 1999.

Atmospheric conditions in 1995 from the orbital decay of ..., *J. Atmos. Sol. Terr. Phys.*, 60, 1477, 1998.

Detecting the dynamical state of the atmosphere from ..., *J. Atmos. Sol. Terr. Phys.*, 59, 431, 1997.