

Prasad Subramanian

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EDUCATION

Ph.D George Mason University, Fairfax, VA, USA (August 1997)
Thesis: Tangled magnetic fields in hot accretion disks: viscosity and particle acceleration.

EMPLOYMENT

Apr '19 - present Professor
Indian Institute of Science Education and Research (IISER), Pune

May '12 - Apr '19 Associate Professor
Indian Institute of Science Education and Research (IISER), Pune

May '08 - May '12 Assistant Professor
Indian Institute of Science Education and Research (IISER), Pune

Apr '06 - May '08 Scientist D
Indian Institute of Astrophysics, Bangalore

Mar '01 - Apr '06 Post-doctoral Fellow
Inter-University Center for Astronomy and Astrophysics (IUCAA), Pune

Jun '00 - Mar '01 Visiting Fellow
National Center for Radio Astrophysics
Tata Institute of Fundamental Research (NCRA-TIFR), Pune

Sept '97 - May '00 Postdoctoral Researcher
Naval Research Laboratory, Washington, DC, USA

RESEARCH INTERESTS

Solar Physics, Solar-Terrestrial Physics – Coronal Mass Ejections (CMEs): Initiation and Propagation, turbulence, near-earth effects, space weather.

Black Hole Astrophysics – Accretion Disks, Relativistic Outflows, Particle Acceleration, hadron dominated jets, observational signatures.

HONORS

- Buti Foundation Award for Plasma Science and Technology, 2013
- Awarded the 2007 Endeavour Research fellowship by the Australian govt for a visit to the solar radiophysics theory group at the University of Sydney.
- Awarded scholarships by the French govt for visits to the solar radio astronomy group at Paris Observatory in 2003 and 2004.
- George Mason University Doctoral Fellowship, 1996, 1997.
- Graduate Assistantship holder throughout graduate career.

PROFESSIONAL SOCIETY MEMBERSHIPS

- 1 Life member, Astronomical Society of India.
- 2 Member, Commission on Solar Activity, International Astronomical Union.

REFEREED INTERNATIONAL JOURNAL PUBLICATIONS

2390 citatons until November 2025, h-index 24 [source: Google scholar]

Selected relevant publications in chronological order

- 1 “Large-Angle Spectrometric Coronagraph Measurements of the Energetics of Coronal Mass Ejections”, Vourlidas, A., **Subramanian, P.**, Dere, K. P., & Howard, R. A. 2000, , *Astrophysical Journal*, vol. 534, p. 456
- 2 “Forbush decreases and turbulence levels at CME fronts”, **Subramanian, P.**, Antia, H. M., Dugad, S. R., Goswami, U. D., Gupta, S. K., Hayashi, Y., Ito, N., Kawakami, S., Kojima, H., Mohanty, P. K., Nayak, P. K., Nonaka, T., Oshima, A., Sivaprasad, K., Tanaka, H., Tonwar, S. C. 2009, *Astronomy & Astrophysics*, vol. 494, p. 1107
- 3 “Can solar wind viscous drag account for CME deceleration?”, **Subramanian, P.**, Lara, A., Borgazzi, A. 2012, *Geophysical Research Letters*, 39, CiteID L19107
- 4 “Turbulent power: a discriminator between sheaths and CMEs”, Ghuge, D., Bhattacharjee, D., **Subramanian, P.**, 2025, *Solar Physics*, vol. 300, p. 47
- 5 “Proton heating estimates from near-Earth observations of coronal mass ejections in solar cycle 24” Bhattacharjee, D., **Subramanian, P.**, Majumder, S., Mishra, W., 2025, *Monthly Notices of the Royal Astronomical Society*, vol. 540, p. 2810