

CURRICULUM VITAE

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Education

- 1990 Ph.D. in Astronomy, Department of Astronomy, U.C.L.A. “*Seismic Analysis of the Sun from Intermediate and High Degree p-Modes*”. Advisor: R.K. Ulrich.
- 1982 Engineering, Applied Physics (*Ingenieur Civil Physicien*), Université Libre de Bruxelles (U.L.B.), Ecole Polytechnique, Faculté des Sciences Appliquées, Brussels, Belgium. Master thesis at the Plasma Physics Laboratory (U.L.B.): “*Study of a magnetic configuration realizing a theta-pinch.*”
- 1977 High school degree: *Humanités Supérieures, section Latin-Mathématiques* Athenée R. Catteau, Brussels, Belgium.

Positions Held

- 2011- SAO’s HPC Analyst (part-time).
- 1990– Physicist, Smithsonian Astrophysical Observatory (SAO).
- 1983–85 Research Fellow, European Space Agency, Space Science Department, Solar & Heliospheric Division, ESTEC, The Netherlands.

Research Experience

- 12/90–present Physicist, Harvard-Smithsonian Center for Astrophysics in the Solar, Stellar, and Planetary Sciences Physics division.
Study of the Sun’s internal structure, dynamics and magnetic fields from a helioseismic approach. Observational stellar seismology and exo-planet detection.
- 8/85–9/90 Graduate Research Assistant at U.C.L.A. for Ph.D. thesis advisor, R. K. Ulrich.
- 1/83–7/85 Research Fellow with the European Space Agency at the Space Science Department, Solar & Heliospheric Division, ESTEC, The Netherlands.

Teaching Experience

- 1991– Invited lecturer and student supervisor on Helioseismology, asteroseismology & exo-solar planet detection at Harvard.
- 1986–87 Teaching assistant for introductory astronomy classes at U.C.L.A. Taught discussion sections of 15–30 students.
- 1989 Teaching assistant for upper section astronomy laboratory class.

Miscellaneous

- 2006– Co-Investigator on the HMI experiment on-board SDO
- 2003–06 Associate-Investigator on the HMI experiment.
- 1994–2008 Member, GONG Data Management and Analysis Center’s Users’ Committee(DUC). The DUC members act as community representatives to advise the GONG DMAC developers on such matters as the setting of priorities for software development, science data products, user interface, visitor support, and standards for the data reduction pipe-line performance.
- 1991–2011 Associate-Investigator on the MDI experiment on-board SOHO.
- 1990– Served on various CfA committees: data policy committee (chair), computing facility review committee, computing facility scientific advisory committee, post-doctoral fellows selection committee, pre-doctoral fellows review committee, SAO Council.
- 1989– Member of the Global Oscillation Network Group (GONG), the American Astronomical Society (AAS) & AAS’ Solar Physics Division.
- 1987–88 Served as Graduate Student Representative at UCLA Astronomy department.

Computing Experience

Large experience on a wide range of machines, from micro- to supercomputer, including array processors, vector processors, symmetric multiprocessor machines, parallel and massively parallel machines, and beowulf clusters. Programming expertise in data reduction and analysis, data visualization and modelization. HPC analyst for SAO: provide support to SAO staff to use SI’s HPC cluster and responsible for the cluster resource management.