

Dr. Sarah Gibson

Birthdate: 08/28/67

Citizenship: USA

Education

- Univ. of Colorado, Boulder: Ph.D. (Astrophys.), 8/95; M.S. (Astrophys.) 5/93
- Stanford University: B.S. (Physics with Honors) 6/89

Employment

- 2/01 --: Scientist, High Altitude Observatory, Dr. B. C. Low
- 2/00 - 1/01: Research Asst. Professor, Catholic Univ. Dr. Charles Montrose
- 1/99 - 1/00: NSF-NATO Postdoc., Univ. of Cambridge, Dr. Helen Mason
- 4/98 - 1/99: Research Asst. Professor, Catholic Univ., Dr. Charles Montrose
- 4/96 - 4/98: NRC Associate, NASA/GSFC, Dr. Richard Fisher
- 10/95 - 4/96: NCAR Post-doc., Dr. B. C. Low & Dr. P. Charbonneau
- 1/90 - 8/95: Research Asst. (NASA GSRP: 8/92-8/95), Univ. of Colorado, Dr. Fran Baganel
- 8/89 - 12/89: Teaching Asst., Univ. of Colorado, Dr. Raul Stern
- 12/88 - 8/89: Resident Astronomer, Wilcox Solar Observatory, Dr. Phil Scherrer

Selected Publications

S. E. Gibson et al., Observational consequences of a magnetic flux rope emerging into the corona, *ApJ*, 617, 600, 2004.

Fan, Y. and S. E. Gibson, Emergence of a magnetic flux rope into a pre-existing coronal arcade, *ApJ Letters*, 589, L505, 2003.

S. E. Gibson et al., Three dimensional coronal density structures: Paper 1 -- model JGR, 108, A12, SSH7-1, CiteID 1444, 2003.

S. E. Gibson et al., Sigmoid structure and evolution: Results from the third Whole Sun Month campaign *ApJ*, 574, 1021, 2002.

S. E. Gibson, Global solar wind structure from solar minimum to solar maximum, *Space Science Reviews*, v. 97, Issue 114, p. 69-79, 2001.

S. E. Gibson and B. C. Low, 3-d and twisted: An MHD interpretation of on-disk observational characteristics of CMEs, *JGR*, 105, 18, 187, 2000.

S. E. Gibson, et al., The Three-Dimensional Coronal Magnetic Field During Whole Sun Month, *ApJ*, 520, 871, 1999.

S. E. Gibson, et al., Solar minimum streamer densities and temperatures using Whole Sun Month coordinated data-sets, *JGR*, 104, A5, 9691, 1999.

S. E. Gibson and B. C. Low, A Time-dependent three-dimensional magnetohydrodynamic model of the coronal mass ejection, *ApJ*, 493, 460, 1998.

S. E. Gibson and P. Charbonneau, Empirical modeling of the solar corona using genetic algorithms, *JGR*, 103, 14511, 1998.

Selected Honors and Awards

AAS/SPD Karen Harvey Early Career Award

NSF-NATO Postdoctoral Fellowship, Jan 1999 - Jan 2000

NRC Associateship Apr 1996-Apr 1998

NASA GSRP Fellowship Aug 1992 – Aug 1995.