

Curriculum Vitae

Dr. Gang Li

Professor
Department of Space science,
University of Alabama in Huntsville,
Huntsville, AL, 35899

EDUCATION

B.S. in Physics, 1994/07, Tsinghua University, Beijing, P. R. China
M.S in Computer Science, 2000/10, Indiana University, Bloomington, IN 47405.
Ph. D in Physics, 2000/10, Indiana University, Bloomington, IN 47205.
Dissertation title: *Macroscopic Charge Conjugation and Parity Violation in Supernovae*

PROFESSIONAL EMPLOYMENT

- 2000/10 – 2000/12 Post-doctor Researcher, Nuclear Theory Center, Indiana University, Bloomington, IN 47405.
- 2002/01 - 2005/06 Post-doctor Research Fellow, Institute of Geophysics and Planetary Physics, University of California, Riverside, CA 92521
- 2005/07 - 2006/02 Professional Researcher, Institute of Geophysics and Planetary Physics, University of California, Riverside, CA 92521
- 2006/02 - 2008/08 Assistant Research Physicist, Space Science Laboratory, University of California, Berkeley, CA 94720
- 2008/08- 2015/03 Assistant Professor, Department of Physics and department of Space Science, University of Alabama in Huntsville, Huntsville, AL, 35805
- 2015/03- 2019/03 Associate Professor, Department of Space Science, University of Alabama in Huntsville, Huntsville, AL, 35805
- 2019/03- present Professor, Department of Space Science, University of Alabama in Huntsville, Huntsville, AL, 35805

HONOR AND AWARDS

2017/08 Space Weather Innovation Award for Young Scientist, Chinese Space Weather Association
2015/06 College of Science Outstanding Research Faculty Award, UAH
2010/05 ORAU Ralph E. Powe Junior Faculty Enhancement Award
2009/07 International Union of Pure and Applied Physics (IUPAP) Young Scientist Award
2009/02 National Science Foundation Early Career Award

SYNERGISTIC ACTIVITIES

Professional Services

- SHINE group leader 2005-2008.
- 2011 LWS TR&T Science Steering Committee.
- NASA LWS Extreme events committee: 2011-2012
- AOGS section secretary 2017- present
- SHINE Steering Committee, 2019-present
- editorial board member of the journal *Fluid* 2021-present

Journal and Grant Peer Reviewer

- Reviewer for JGR, GRL, PRL, PRE, ASR, ApJ.
- NSF Proposal Reviewer (multiple times).
- NASA Proposal Reviewer (multiple times).

Conference organized

- *Space Weather: the space radiation environment*, 11th Annual international Astrophysics Conference (2012)
- *Physics of the Heliosphere: A 10 year Retrospective*, 10th Annual international Astrophysics Conference, (2011).

PROFESSIONAL MEMBERSHIPS

- Member of AGU (American Geophysics Union), 2002-present
- Member of APS (American Physics Society), 1998-2000, 2009-2010

SELECTED PUBLICATION

- G Li, X Wu, L Zhao, S Yao, (2020) Observations of Outward-propagating and Mirroring of the Same Energetic Electrons by Wind, *The Astrophysical Journal Letters* 905, L1
- G Li, L Zhao, L Wang, W Liu, X Wu, (2020), Identification of Two Distinct Electron Populations in an Impulsive Solar Energetic Electron Event *The Astrophysical Journal Letters*, 900, L16
- ZY Ding, **G Li***, JX Hu, S Fu, (2020) [Modeling the 10 September 2017 solar energetic particle event using the iPATH model](#), *RAA*, 20, 145
- Ashraf Moradi and **Gang Li***, (2019) Propagation of Scatter-free Solar Energetic Electrons in a Meandering Interplanetary Magnetic Field, *ApJ*, 887, 102, doi: 10.3847/1538-4357/ab4f68
- Lulu Zhao , **Gang Li***, Ming Zhang , Linghua Wang, Ashraf Moradi, Frederic Effenberger,(2019), Statistical analysis of interplanetary magnetic field path lengths from solar energetic electron events observed by WIND, *ApJ*, 878, 107, doi: 10.3847/1538-4357/ab2041
- Shuai Fu, Yong Jiang , Vladimir Airapetian, **Gang Li***, Junxiang Hu, Gary P. Zank, (2019), Effect of Star Rotation Rates on the Characteristics of Energetic Particle Events, *ApJL*, 878, L36, doi: 10.3847/2041-8213/ab271d
- Junxiang Hu, **Gang Li***, Shuai Fu, G. Zank, and X. Ao (2018), [Modeling a Single SEP Event from Multiple Vantage Points Using the iPATH Model](#), *The Astrophysical Journal Letters*, 854:L19.
- Liu Yang, Linghua Wang, **Gang Li**, Robert F. Wimmer-Schweingruber, Jiansen He, Chuanyi Tu, Hui Tian, and Stuart D. Bale, The Strongest Acceleration of >40 keV Electrons by ICME-driven Shocks at 1 AU, *The Astrophysical Journal*, 853:89
- J Hu, **G Li***, X Ao, GP Zank, O Verkhoglyadova (2017), [Modeling Particle Acceleration and Transport at a 2D CME-Driven Shock](#), *Journal of Geophysical Research: Space Physics*, 122, 10.1002/2017JA024077

- **G. Li**, (2017) Particle acceleration and transport in the inner heliosphere, Sci. China Earth Sci. 60: 1440. <https://doi.org/10.1007/s11430-017-9083-y>
- Lijia Guo, **Gang Li***, Kathy Reeves, John Raymond (2017), Solar Flare Termination Shock and Synthetic Emission Line Profiles of the Fe XXI 1354.08 Å Line, Astrophysical Journal Letter, 846, L12
- Lulu Zhao, **Gang Li***, Glenn M. Mason, Christina Cohen, Richard Mewaldt, Mihir Desai, Rob Ebert and Maher Al-Dayeh (2016), Probing shock geometry via the charge to mass ratio dependence of heavy ion spectra from multiple spacecraft observations of the 2013 November 4 event, RAA, 16, 190.
- R. W. Ebert, M. A. Dayeh, M. I. Desai , L. K. Jian, **G. Li**, and G. M. Mason (2016), Multi-spacecraft analysis of energetic heavy ion and interplanetary shock properties in energetic storm particle events near 1 AU, ApJ, 831,153.
- Xiangliang Kong, Yao Chen, Fan Guo, Shiwei Feng, Guohui Du, and **Gang Li**, (2016) Electron Acceleration at A Coronal Shock Propagating through a Large-Scale Streamer-Like Magnetic Field, ApJ, 821, 32.
- Ding, L.-G.; Jiang, Y. & **Li, G.*** (2016) Are There Two Distinct Solar Energetic Particle Releases in the 2012 May 17 Ground Level Enhancement Event?, The Astrophysical Journal, 818, 169
- Desai, M. I.; Mason, G. M.; Dayeh, M. A.; Ebert, R. W.; McComas, D. J.; **Li, G.**; Cohen, C. M. S.; Mewaldt, R. A.; Schwadron, N. A. & Smith, C. W., (2016) Spectral Properties of Large Gradual Solar Energetic Particle Events. I. Fe, O, and Seed Material The Astrophysical Journal, 816, 68
- Tao, J.; Wang, L.; Zong, Q.; **Li, G.**; Salem, C. S.; Wimmer-Schweingruber, R. F.; He, J.; Tu, C. & Bale, S. D. (2016) QUIET-TIME SUPRATHERMAL (>1.5 keV) ELECTRONS IN THE SOLAR WIND, The Astrophysical Journal, 820, 22