

Biographical Sketch

Name: **Peter J. Chi**
Present Position: Research Geophysicist
UCLA Institute of Geophysics and Planetary
Physics & Department of Earth and Space
Sciences

Education

University of California, Los Angeles	Ph.D. Geophysics and Space Physics	1997
National Taiwan University	B.S. Physics	1989

Professional Experiences and Positions

2011-present	Research Geophysicist, IGPP & Dept. of Earth and Space Sciences, UCLA
2008-present	Visiting Scientist, GSFC Heliophysics Division, NASA
2004-2011	Associate Research Geophysicist, IGPP, UCLA
1997-2004	Assistant Researcher Geophysicist, IGPP, UCLA

Selected Professional Memberships and Services

- Member, U.S. Ground Magnetometer Array Advisory Board, 2017-present
- Leader, International Space Science Institute (ISSI) Team on Magnetoseismology, 2016-present
- Member, NASA Mars InSight Science Team, 2015-present
- Member, NASA Lunar Science Institute ALSEP Data Recovery Focus Group, 2010-present
- Member, Editorial Committee, Korean Space Science Society, 2010-present
- Communications Coordinator, NSF Geospace Environment Modeling Program, 2009-present
- Secretary, Ultra Large Terrestrial International Magnetometer Array, 2006-present
- Editor, AGU SPA (Space Physics and Aeronomy) Section Newsletter, 2002-present
- Editor, GEM Messenger, Electronic Newsletter for NSF Geospace Environment Modeling Program, 2002-present
- Member, Science Organization Committee of the 3rd COSPAR Symposium on Small Satellites for Space Research, Jeju, South Korea, 2017
- Chair, International Association of Geomagnetism and Aeronomy (IAGA) ULF Waves Working Group, 2005-2011
- Convener, Joint ULTIMA-GEM Forum on Ground-based Magnetometer Observations, San Francisco, California, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017 (New Orleans)
- Co-Leader, NSF GEM Storm-time Inner Magnetosphere-Ionosphere Convection, 2013-2017
- Co-convener, Special Session on ULF Waves, IUGG/IAGA Assemblies, 2009, 2011, 2013, 2015
- Co-convener, Chapman Conference on Magnetospheric ULF Waves, San Diego, March 2005
- Convener or co-convener, Various special sessions at AGU Meetings since 2002
- Panel reviewer for NASA's Heliophysics and Planetary Science missions, Heliophysics R&A Programs, Planetary R&A Programs
- Panel reviewer for NSF's Geospace Section Programs
- Referee of research articles for publication in JGR, GRL, Space Weather, SSR, JASTP, AnGeo, EPS, EPSL, ASR, Int. J. Geomagn. Aeron., Adv. Geosci., and Tectonophysics

Selected Publications

1. Le, G., P. J. Chi, R. J. Strangeway et al. (2017), Global observations of magnetospheric high-*m* poloidal waves during the 22 June 2015 magnetic storm, *Geophys. Res. Lett.*, *44*, doi:10.1002/2017GL073048.
2. Russell, C. T., et al. with P. J. Chi (2016), Dawn arrives at Ceres: Exploration of a small, volatile-rich world, *Science*, *353*(6303), 1008-1010, doi:10.1126/science.aaf4219.
3. Chi, P. J., and G. Le (2015), Observations of magnetospheric high-*m* poloidal waves by ST-5 satellites in low Earth orbit during geomagnetically quiet times, *J. Geophys. Res. Space Physics*, *120*, 4776–4783, doi:10.1002/2015JA021145.
4. Chi, P. J., et al. (2013), Sounding of the plasmasphere by Mid-continent Magnetoseismic Chain magnetometers, *J. Geophys. Res.*, *118*, doi:10.1002/jgra.50274.
5. Le, G. P. J. Chi, X. Blanco-Cano, et al. (2013), Upstream ultra-low frequency waves in Mercury's foreshock region, MESSENGER magnetic field observations, *J. Geophys. Res.*, *118*, 2809–2823, doi:10.1002/jgra.50342.
6. Chi, P. J., C. T. Russell, H. Y. Wei, and W. M. Farrell (2013), Observations of narrowband ion cyclotron waves on the surface of the Moon in the terrestrial magnetotail, *Planet. Space Sci.*, *85*, doi:10.1016/j.pss.2013.08.020.
7. Le, G., P. J. Chi, R. J. Strangeway, and J. A. Slavin (2011), Observations of a unique type of ULF wave by low-altitude Space Technology 5 satellites, *J. Geophys. Res.*, *116*, A08203, doi:10.1029/2011JA016574.
8. Chi, P. J., C. T. Russell, and S. Ohtani (2009), Substorm onset timing via traveltime magnetoseismology, *Geophys. Res. Lett.*, *36*, L08107, doi:10.1029/2008GL036574.
9. Chi, P. J., and C. T. Russell (2008), Use of the Wigner-Ville distribution in interpreting and identifying ULF waves in triaxial magnetic records, *J. Geophys. Res.*, *113*, A01218, doi:10.1029/2007JA012469.
10. Russell, C. T., P. J. Chi, D. J. Dearborn, et al. (2008), THEMIS ground-based magnetometers, *Space Sci. Rev.*, *137*, doi:10.1007/s11214-008-9337-0.
11. Chi, P. J., K. Takahashi, R. E. Denton, and R. L. Lysak (2007), Ultra-Low-Frequency Waves in the Magnetosphere, *Planetary and Space Science*, *55*, no.6 (special issue).
12. Takahashi, K., P. J. Chi, R. E. Denton, and R. L. Lysak (2006), *Magnetospheric ULF Waves: Synthesis and New Directions*, Geophysical Monograph Series 169, AGU.
13. Chi, P. J., D.-H. Lee, and C. T. Russell (2006), Tamao travel time of sudden impulses and its relationship to ionospheric convection vortices, *J. Geophys. Res.*, *111*, A08205, doi:10.1029/2005JA011578.
14. Chi, P. J., and C. T. Russell (2005), Travel-time magnetoseismology: Magnetospheric sounding by timing the tremors in space, *Geophys. Res. Lett.*, *32*, L18108, doi:10.1029/2005GL023441.
15. Chi, P. J., C. T. Russell, J. C. Foster, et al. (2005), Density enhancement in plasmasphere-ionosphere plasma during the 2003 Halloween Superstorm: Observations along the 330th magnetic meridian in North America, *Geophys. Res. Lett.*, *32*, L03S07, doi:10.1029/2004GL021722.
16. Chi, P. J., C. T. Russell, J. Raeder, et al. (2001), Propagation of the preliminary reverse impulse of sudden commencements to low latitudes, *J. Geophys. Res.* *106*, 18857.
17. Chi, P. J., C. T. Russell, S. Musman, et al. (2000), Plasmaspheric depletion and refilling associated with the September 25, 1998 magnetic storm observed by ground magnetometers at $L = 2$, *Geophys. Res. Lett.*, *27*, 633-636.