

## **LIQUN ZHOU, Ph.D.**

370 East 9th Avenue, Suite 106 Salt Lake City, UT 84103

(801) 408-5700

### **EDUCATION**

Ph.D., Physics, Utah State University, 1997

M.Sc., Space Physics, Chinese Academy of Sciences, Beijing, China, 1985

B.Sc., Geophysics, Beijing University, Beijing, China, 1982

### **Certificates/Training:**

- Quantitative EEG Analysis and NeuroGuide Workshop, Tampa, Florida, 2007
- ITIL V3 Foundation Certified (Dec., 2010)
- Sun Microsystem Java Programming Certified (2001)

### **Quantitative EEG Experiences:**

- Processed MS patients' EEG data using method of power spectral analysis since 2006
- Processed CO patient's EEG data using method of power spectral analysis since 2006
- Processed normal subjects' EEG data using method of power spectral analysis since 2006
- Conducted clinical research on MS patient's EEG data using method of power spectral analysis since 2006
- R&D on innovative methods of EEG signal processing

### **HONORS**

- Member of the honor society Phi Kappa Phi
- 2<sup>ND</sup> Best presenter in National Science Foundation , Boulder, CO, June 1997

### **THESIS**

- Ph.D.: Modeling and model-data comparisons of the thermal plasma flows in the mid-latitude ionosphere, Utah State University, 1997
- M.Sc.: Numerical calculation of the conductivity, electric fields, and current systems of solar tides, Beijing, 1985
- B.S.: Numerical calculations of the anomalous, geomagnetic non-dipole field in East Asia, Beijing University, 1982

### **REPORTS**

- Prototyping a satellite image to 3-d cloud database tool (with Visidyne Inc. and NASA Stennis Space Center for Commercial Remote Sensing Program), 1998
- Parallel electric field and anomalous resistivity, Ion acoustic mode, Center for Space Science and Applied Research, Chinese Academy of Sciences, 1988
- Parallel electric field and anomalous resistivity, EIC mode, Center for Space Science and Applied Research, Chinese Academy of Sciences, 1988
- Statistical analysis of 3-D propagation properties of the flare-associated MHD shock wave deduced from the 3-D distribution characteristics of the Forbush decrease of the cosmic ray, Center for Space Science and Applied Research, Beijing, 1986

### **ARTICLES**

- Zhou Liqun, Vincent B. Wickwar, and Robert W. Schunk, Solving the Navier-Stokes system with weak Viscosity and strong heat conduction using FCT-ADE method, J. Comput. Phys., 144, 379-401, Article No. CP986016, 1998
- Zhou Liqun and Vincent B. Wickwar, Real magnetic field-line tracing, in Geomagnetism, Atmosphere, Space

- Research and Its Applications, 1, edited by K. Tang, pp. 653-668, Seismological Press, Beijing, 1996
- Zhou Liqun, Vincent B. Wickwar, and Robert W. Schunk, Toward modeling the evening peak of the F region electron density distributions over Millstone Hill Observatory, I–Model description, Ph.D. thesis, 1997
  - Zhou Liqun, Vincent B. Wickwar, Robert W. Schunk, J. Liliensten, and John Holt, Toward modeling the evening peak of the F region electron density distribution over Millstone Hill Observatory, II–Model-data comparison, Ph.D. thesis, 1997
  - Wickwar, Vincent B., Liqun Zhou, Robert W. Schunk, Ian K. Monson, Chantal Lathuillere, Jean Liliensten, and John Holt, Examination of an anomalous, F region, density maximum by comparing observations and detailed model calculations, 7th Eiscat Scientific Workshop, Cargese, Corsica, France, 1995
  - Zhou Liqun and Peiren Chen, Numerical simulation of the two-day oscillation of the equatorial anomaly, Acta. Geophys. Sin., 33, 1, 1990
  - Chen Peiren and Liqun Zhou, Numerical studies for the symmetrical two-day planetary wave dynamo effect, Acta. Geophys. Sin., 34, 627, 1991