

Xingwen Li

Work Address

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Home Address

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Education

MIT/WHOI joint program, Cambridge, MA 1998-2002
Ph.D in physical oceanography
Thesis: Constraining the North Atlantic Circulation with Transient Tracer Observations
Thesis Advisor: Carl Wunsch
GPA: 4.9/5.0
University of Science and Technology of China, Heifei, China 1991-1994
M.Sc., Dept. of the Earth, Atmospheric and Planetary Sciences, June, 1994
Major GPA: 4.0/4.0
University of Science and Technology of China, Heifei, China 1986-1991
B.Sc., Dept. of the Earth, Atmospheric and Planetary Sciences, July, 1991
Major GPA: 3.9/4.0

Experience

Research Associate Jan.2005-present
Woods Hole Oceanographic Institution

- Development of optimal mapping software to estimate the direct velocity in the ocean via combination of measurements from subsurface floats, surface drifters, altimetry and hydrographic observations.
- Analysis of heat and salt budgets in the high latitudes North Atlantic from profiling float data, Aviso SSHA and NCEP reanalysis surface fluxes

Postdoctoral Investigator Jan.2003-Dec.2004
Woods Hole Oceanographic Institution

- Numerical modeling of zooplankton dynamics and physical-biological interactions in coastal margins

Postdoctoral Associate Nov.-Dec., 2002

Research Assistant Sep.1998-Oct.2002

Massachusetts Institute of Technology

- Numerical ocean modeling and inverse methods
Project: Constraining the North Atlantic Circulation with Transient Tracer observations
- Objective analysis and multiscale mapping
Project: Relationship of TOPEX/POSEIDON Altimetric Height to Steric Height in the North Atlantic

Lecturer 1996-1998

Assistant Professor 1994-1996

University of Science and Technology of China

- Research Project: (1) The Characteristics of Atmospheric Heating Field during Elnino and Lanino Periods and Their Impacts on Atmospheric Circulation. (2) Relationship of SST in the Tropical Pacific and Precipitation in China Using EOF Analysis. (3) Air pollution transport in the North China.

- Co-advisor of a undergraduate thesis: The Impact of the Ice Coverage in the Northern Polar Region on the Atmospheric Circulation.
- Teaching courses: "Introduction to Atmospheric Dynamics", "Introduction to Atmospheric Physics", "Synoptic Meteorology Lab", "C language"
- In charge of a undergraduate class for four years

Publications

1. The Characteristics of Atmospheric Heating Field during El Niño and La Niña Periods and Their Impacts on Atmospheric Circulation, *Chinese Journal of Atmos. Sci.*, 374-384, 1996
2. Constraining the North Atlantic Circulation with between 4.5°S and 39.5°N with Transient Tracer Observations, *Journal of Geophysical Research*, 108(C10), doi:10.1029/2002JC001765, 2003
3. An adjoint Sensitivity Study of Chlorofluorocarbons in the North Atlantic, *Journal of Geophysical Research*, 109(C01), doi:10.1029/2003JC002014, 2004
4. Constraining the North Atlantic Circulation with Transient Tracer Observations, *WOCE and Beyond Meeting*, 2002
5. Constraining the North Atlantic Circulation with Chlorofluorocarbon Observations, *Ocean Science Meeting*, 2002
6. Biological control of the vernal population increase of *Calanus finmarchicus* on Georges Bank, *Manuscript submitted to Deep Sea Research II*
7. Physical and Biological Controls on *Calanus finmarchicus* in the Georges Bank Region: an Adjoint Data Assimilation Approach, *the US GLOBEC North Atlantic Georges Bank Program Science PI Meeting, 2003; AGU Ocean Science meeting, 2004*

Honorary Membership

Sigma Xi, MIT Chapter

Awards

Awards for excellent paper in Anhui Province, 1997; Guanghua Scholarship, 1993; Zhang-Zhong-Zhi Scholarship, 1990; Huaxin Scholarship, 1989

References

Available Upon Request.