

## **Curriculum Vitae**

### **Zhankun Wang, Ph.D.**

Research Associate  
School for Marine Science and Technology  
University of Massachusetts, Dartmouth  
706 South Rodney French Blvd  
New Bedford, MA, 02744  
(508) 910-6337 (office)  
(508) 910-6376 (fax)  
[zwang@umassd.edu](mailto:zwang@umassd.edu)

#### **EDUCATION:**

- Ph.D., Marine Science, with a concentration in Physical Oceanography, University of Massachusetts, School of Marine Science, USA, 05/2009
- M.S., Marine Science, with a concentration in Physical Oceanography, University of Massachusetts, School of Marine Science, USA, 01/2007
- B.S., Oceanography, Ocean University of China, Qingdao, China, 06/2002

#### **PROFESSIONAL EXPERIENCE:**

##### I. Academic

- *Research Associate*, 06/01/2009-present
- *Graduate Research Assistant*, 06/11/2004—05/31/2009  
Marine Turbulence Laboratory, University of Massachusetts, Dartmouth
- *Graduate Research Assistant*, 09/01/2002—06/11/2004  
Ocean University of China,
- Teaching Assistant, *Spring 2007 and 2008*  
University of Massachusetts, Dartmouth  
Course: Introduction to Marine Turbulence
- CMG Summer School *Summer 2006*  
on Modern Mathematical Methods in Physical Oceanography,  
Breckenridge, CO, USA

##### II. Research Cruises

- Spreading, entrainment, and water mass modifications in near-field river plumes (the Merrimack River Plume). Merrimack River, MA, 05/8/2007-05/15/2007.
- Layered Organization in the Coastal Ocean Experiment (LOCO). Monterey Bay, CA, 07/13/2006-07/26/2006.
- Spreading, entrainment, and water mass modifications in near-field river plumes (the Merrimack River Plume). Merrimack River, MA, 05/19/2006-05/24/2006.
- Layered Organization in the Coastal Ocean Experiment (LOCO). Monterey Bay, CA, 08/15/2005-09/04/2005.

- China 18<sup>th</sup> Antarctic scientific expeditionary Research. Antarctic Ocean, 11/15/2001-04/29/2002.

#### **Ph.D. DISSERTATION:**

**Wang, Z.**, May 2009, The impact of turbulence on thin phytoplankton layers, Ph.D. Dissertation, University of Massachusetts, School of Marine Science, 124 pp.

#### **PUBLICATIONS:**

Goodman, L., Levine, E.R. and **Wang, Z.**, 2009, (in review). Sub surface observations of surface waves from an autonomous underwater vehicle (AUV). IEEE Journal of Oceanic Engineering.

**Wang, Z.** and L. Goodman, August 2009, (in press). The dynamical evolution of thin phytoplankton layers in turbulence. Continental Shelf Research.

Sullivan, J.M., McManus, M.A. Cheriton, O.M., Benoit-Bird, K.J., Goodman, L. **Wang, Z.** and others, August 2009, (in press). Layered Organization in the Coastal Ocean: An introduction to plankton thin layers and the LOCO project. Continental Shelf Research.

**Wang, Z.** and L. Goodman, January, 2009, Evolution of the spatial structure of a thin phytoplankton layer into a turbulent field. Marine Ecology Progress Series. 374:57-74 Doi:10.3354/meps07738.

Goodman, L. and **Z. Wang**, June, 2009, Turbulence observations in the northern bight of Monterey Bay from a small AUV, Journal of Marine Systems, Volume 77, Issue 4, Special issue on marine turbulence, p441-458, ISSN 0924-7963, Doi: 10.1016/j.jmarsys.2008.11.004

Sastre-Córdova, M. M., L. Goodman, and **Z. Wang**, 2007, Measurements of the turbulent microstructure of a buoyant salinity plume using acoustics, Proceedings of the OCEANS 2007 MTS/IEEE VANCOUVER Conference & Exhibition ISBN CD-ROM: 0-933957-35-1 2007 MTS. Doi: 10.1109/OCEANS.2007.4449242

#### **UNPUBLISHED TECHNICAL REPORTS:**

**Wang, Z.**, C. Luebke and J. Yarmac, 2005. Autonomous Underwater Vehicle T-REMUS II user's manual.

#### **CONFERENCES AND WORKSHOPS PRESENTATIONS:**

**Wang, Z.** and Goodman, L. On the relationship of turbulence to thin phytoplankton layers, Sep, 2008, MABPOM2008, Woods Holes, MA

Goodman, L. and **Wang, Z.**, Turbulence observations from an AUV in the LOCO field, Sep, 2008, SMAST invited seminar, New Bedford, MA

**Wang, Z.** and Goodman, L. On the horizontal and vertical structure of turbulence and chlorophyll a thin layer, March 2008, AGU/ASLO Ocean Sciences Meeting, Orlando, FL

**Wang, Z.** and Goodman, L. On the horizontal and vertical structure of turbulence and chlorophyll a thin layer, March 2008, 2008 LOCO workshop, Orlando, FL

Goodman, L and **Wang, Z.**, AUV Turbulence Observations in the LOCO, Ocean Science Meeting, Orlando Fl. March 2008,

Sastre-Córdoba, M. M., L. Goodman, and **Z. Wang**, Sep 2007, Measurements of the turbulent microstructure of a buoyant salinity plume using acoustics, Proceedings of the OCEANS 2007 MTS/IEEE VANCOUVER

**Wang, Z.** and Goodman, L. The impact of turbulence on phytoplankton thin layers, June 2007, Gordon Research Conference: COASTAL OCEAN MODELING, New London, NH

Goodman, L. and **Wang, Z.** The Role of Turbulence in Thin Layers, 39th International Liège Colloquium on Ocean Dynamics , May 2007

**Wang, Z.** and Goodman, L. Samples of LOCO 06 T-REMUS data, January 2007, 2007 LOCO workshop, La Jolla, CA

Goodman, L., Levine, E., **Wang, Z.**, Yarmac, J. Luebke, C. and Chen, F., Observations of turbulence, finescale shear, and phytoplankton from T-REMUS during the 2005 ONR LOCO experiment, May 2006, SMAST seminar, New Bedford, MA

Goodman, L., Levine, E., Yarmac, J., **Wang, Z.**, Luebke, C., Observations of Turbulence in Thin Layers during the LOCO 2005 experiment Ocean Science Meeting February 2006 Honolulu HI

#### **MEMBERSHIP IN PROFESSIONAL SOCIETY:**

**Member**, American Geophysical Union, 2007-present

#### **MANUSCRIPTS REVIEWED:**

*Journal of Marine System*  
*Limnology*  
*Continental Shelf Research*