# Peng Wang, Ph.D.

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#### Education

09/2011 – 05/2016 Ph.D. in Meteorology and Physical Oceanography

University of Miami, Miami, USA

09/2007 – 06/2011 B.S. in Ocean Sciences

Ocean University of China, Qingdao, China

#### Careers

06/2016 – Present Postdoctoral Associate, University of Miami

### **Publications**

#### Peer-reviewed Articles:

- Wang, P., Özgökmen, T. M., Haza, A. C., 2016. Material dispersion by oceanic internal waves. *Environmental Fluid Mechanics*, DOI: doi:10.1007/s10652-016-9491-y.
- Wang, P., Özgökmen, T. M., 2016. Spiral inertial waves radiated from geophysical vortices. *Ocean Modelling*, DOI: 10.1016/j.ocemod.2016.01.001.
- Wang, P., Özgökmen, T. M., 2015. How do hydrodynamic instabilities affect 3D transport in geophysical vortices? *Ocean Modelling*, DOI:10.1016/j.ocemod.2015.01.002.
- Rypina, I., Pratt, L. J., **Wang, P.**, Özgökmen, T. M., Mezić, I., 2015. Resonance phenomena in 3D time-dependent volume-preserving flows with symmetries. *Chaos*, DOI: 10.1063/1.4916086.

• Pratt, L. J., Rypina, I. I., Özgökmen, T. M., **Wang, P.**, Childs, H., Bebieva, Y., 2014. Chaotic advection in a steady, three-dimensional, Ekman-driven eddy. *Journal of Fluid Mechanics*, DOI:10.1017/jfm.2013.583.

## Conference Papers:

• Zambianchi, E., Poulain, P., Wang, P., Kalampokis, A., Berta, M., Borghini, M., Buonocore, B., Cianelli, D., Falco, P., Gerin, R., Iermano, I., Mantovani, C., Nicolaides, G., Özgökmen, T., Sofianos, S., Uttieri, M., Zervakis, V., 2013. Surface circulation in the Gulf of Naples during the GELaTo 2012 experiment. 40th CIESM Congress – Marseille, France, October 2013.

#### *Ph.D. Dissertation:*

• Wang, P., 2016. Material dispersion by ocean eddies and waves. *Open Access Dissertations*, Paper 1653.

#### **Conferences and Presentations**

- 11/2016, Miami, FL, USA. Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE-II All Hands Meeting). --- *Oral presentation*: "Simulating Langmuir circulations without phase averaging surface gravity waves".
- 05/2016, Woods Hole, MA, USA. AmeriMech Symposium on Fluid Transport and Nonlinear Dynamics.
  - --- Poster presentation: "Spiral inertial waves emitted from geophysical vortices".
- 02/2016, New Orleans, LA, USA. Ocean Sciences Meeting (AGU).
  --- Poster presentation: "Spiral inertial waves emitted from geophysical vortices".
- 09/2015, La Jolla, CA, USA. Dynamical Systems Theory and Lagrangian Data Assimilation in 3D+1 Geophysical Fluid Dynamics (MURI Ocean 3D+1).
   --- Oral presentation: "Spiral inertial waves emitted from geophysical vortices".
- 12/2014, San Francisco, CA, USA. American Geophysical Union Fall Meeting (AGU Fall Meeting).
  - --- Poster presentation: "How do hydrodynamic instabilities affect 3D transport in geophysical vortices".
- 11/2014, Miami, FL, USA. Dynamical Systems Theory and Lagrangian Data Assimilation in 3D+1 Geophysical Fluid Dynamics (Ocean 3D+1). --- *Oral presentation*: "The material transport and wave radiation in a 3D ocean eddy".

- 04/2014, Hollywood, FL, USA. Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE All Hands Meeting).
  - --- Oral presentation: "3D instability in an isolated geophysical vortex".
- 02/2013, Chapel Hill, NC, USA. Dynamical Systems Theory and Lagrangian Data
   Assimilation in 3D+1 Geophysical Fluid Dynamics (Ocean 3D+1).

   --- Oral presentation: "Chaotic advection a periodically-perturbed, three-dimensional rotating cylinder".
- 06/2012, Miami, FL, USA. Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics (LAPCOD-V).

# **Professional Experiences**

•	08/2011 - 05/2016	Research Assistant at University of Miami
•	10/2015 - 11/2015	Teaching Assistant for "Geophysical Fluid Dynamics"
•	09/2015	Visiting Scholar for "Fluid Dynamics on Sustainability and the
		Environment" at École Polytechnique, France
•	09/2014	Nearshore research cruise along Florida southeast coast
•	07/2014	Nearshore research cruise along Florida southeast coast
•	08/2013 - 12/2013	Teaching Assistant for "Computer Models of Fluid Dynamics"
•	01/2013 - 05/2013	Teaching Assistant for "Introduction to Physical Oceanography"

## **Computer Skills**

Fortran; MATLAB; VisIt; Linux/Unix; etc.

### **Awards and Honors**

•	2009 – 2010	Honorary Title of Outstanding Student at Ocean University of China
•	2009 - 2010	Excellent Students Scholarship at Ocean University of China
•	2008 - 2010	Excellent Academy Scholarship at Ocean University of China
•	2008	First Prize of National Undergraduate Ocean Knowledge Contest,
		China
•	2009	Second Prize of National Undergraduate Mathematics Contest,
		Shandong, China

#### **Social Services**

•	10/2015	Volunteer for "National Gandhi Day of Service"
•	03/2015	Volunteer for UM/RSMAS Auction Activity
•	04/2014	Volunteer for "Baynanza Beach (Miami) Cleanup and Exotic
		Plant Removal"
•	09/2013 - 05/2014	Member of UM/RSMAS MPO Student Seminar Committee
•	01/2013 - 03/2016	Member of UM/RSMAS Garden Club

# **Professional Affiliations**

American Geophysical Union