# Peng Wang, Ph.D.

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### **Education**

•	Ph.D. in Meteorology and Physical Oceanography University of Miami, Miami, Florida, USA	2011 – 2016
•	B.S. in Ocean Sciences Ocean University of China, Qingdao, Shandong, China	2007 – 2011

### **Careers**

• Postdoctoral Research Associate, University of Miami, USA 2016 – Present

## **Professional Experiences**

•	Research Assistant at University of Miami	2011 - 2016
•	Teaching Assistant of Geophysical Fluid Dynamics	2014 - 2016
•	Teaching Assistant of Computer Models of Fluid Dynamics	2013
•	Teaching Assistant of Introduction to Physical Oceanography	2013
•	Field experiment of drifters deployment in Miami Biscayne Bay	2016
•	Research cruises of ocean currents sampling along Florida southeast coast	st 2014
•	Visiting student at École Polytechnique Université Paris-Saclay, France	2015

### **Awards and Honors**

•	Doctoral Student Scholarship at University of Miami, USA	2011	- 2016
•	Outstanding Student at Ocean University of China	2009	-2010
•	Excellent Students Scholarship at Ocean University of China	2009	-2010
•	Excellent Academy Scholarship at Ocean University of China	2008 -	- 2010
•	First Prize of National Undergrad Marine Knowledge Contest, China		2008
•	Second Prize of National Undergrad Mathematics Contest, Shandong,	China	2009

### **Professional Skills**

Fortran; MATLAB; Nek5000; VisIt; ParaView; HTML; Linux/Unix

### **Professional Affiliations**

American Geophysical Union

### **Voluntary Services**

•	Volunteer for National Gandhi Day of Service	2015
•	Volunteer for UM/RSMAS Student Auction	2015
•	Volunteer for Baynanza Beach Cleanup and Exotic Plant Removal	2014
•	Member of University of Miami MPO Seminar Committee	2013 - 2014
•	Member of University of Miami Garden Club	2013 - 2016

### **Publications**

### <u>Peer-reviewed Articles:</u>

- 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.

### Submitted Manuscripts:

• Wang, P., Özgökmen, T. M., 2017. Langmuir circulation with explicit surface waves from moving-mesh modelling. *Geophysical Research Letters*.

#### **Conferences and Presentations**

- AmeriMech Symposium on Fluid Transport and Nonlinear Dynamics
  Woods Hole, MA, USA; May 2016
  Poster presentation: "Spiral inertial waves emitted from geophysical vortices"
- AGU Ocean Sciences Meeting
  New Orleans, LA, USA; February 2016
  Poster presentation: "Spiral inertial waves emitted from geophysical vortices"
- Dynamical Systems Theory and Lagrangian Data Assimilation in 3D+1 Geophysical Fluid Dynamics
  La Jolla, CA, USA; September 2015 Oral presentation: "Spiral inertial waves emitted from geophysical vortices"
- American Geophysical Union Fall Meeting
  San Francisco, CA, USA; December 2014

*Poster presentation*: "How do hydrodynamic instabilities affect 3D transport in geophysical vortices"

- Dynamical Systems Theory and Lagrangian Data Assimilation in 3D+1 Geophysical Fluid Dynamics
  - --- Miami, FL, USA; November 2014 *Oral presentation*: "The material transport and wave radiation in a 3D ocean eddy"
- Dynamical Systems Theory and Lagrangian Data Assimilation in 3D+1 Geophysical Fluid Dynamics
  - --- Chapel Hill, NC, USA; February 2013 *Oral presentation*: "Chaotic advection a periodically-perturbed, three-dimensional rotating cylinder"
- Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics
  Miami, FL, USA; June 2012