Peng Wang, Ph.D.

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Education

• Ph.D. in Meteorology and Physical Oceanography
University of Miami, Miami, Florida, USA

• B.S. in Ocean Sciences 2007 – 2011 Ocean University of China, Qingdao, Shandong, China

Careers

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

Professional Experiences

- Research Assistant at University of Miami

 Teaching Assistant of Geophysical Fluid Dynamics
 Teaching Assistant of Computer Models of Fluid Dynamics
 Teaching Assistant of Introduction to Physical Oceanography
 Research cruises nearshore Florida southeast coast

 Aug. 2011 May 2015

 Aug. 2013 Dec. 2013

 Jul. and Sep. 2014
- Visiting Student at the summer school of *Fluid Dynamics on Sustainability and the Environment* at École Polytechnique, France Sep. 2015

Professional Skills

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

Professional Affiliations

American Geophysical Union

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

Voluntary Services

•	Volunteer for National Gandhi Day of Service		Oct. 2015
•	Volunteer for UM/RSMAS Student Auction		Mar. 2015
•	Volunteer for Baynanza Beach Cleanup and Exotic Plant Ren	noval	Apr. 2014
•	Member of UM/RSMAS MPO Student Seminar Committee	Sep.	2013 – May 2014
•	Member of UM/RSMAS Garden Club	Jan.	2013 – Mar. 2016

Publications

Peer-reviewed Articles:

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

- 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