Peng Wang, Ph.D.

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Education

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

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

Careers

Postdoctoral Research Associate, University of Miami, USA

2016 – Current

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

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

Professional Experiences

- Research Assistant at University of Miami Aug. 2011 May 2016
- Teaching Assistant of Geophysical Fluid Dynamics Oct. 2015 Nov. 2015
- Teaching Assistant of Computer Models of Fluid Dynamics Aug. 2013 Dec. 2013
- Teaching Assistant of *Introduction to Physical Oceanography* Jan. 2013 May 2013
- Research cruises nearshore Florida southeast coast 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; etc.

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. 201	13 – May 2014
•	Member of UM/RSMAS Garden Club	Jan. 201	13 – Mar. 2016