Peng Wang, Ph.D.

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Address: Dept. of Ocean Sciences, RSMAS, University of Miami, Miami, FL 33149, USA

Education

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

Careers

Postdoctoral Research Associate, University of Miami, USA

2016 - Present

Professional Experiences

•	Research Assistant in Physical Oceanography at UM/RSMAS	2011 - 2016
•	Teaching Assistant for undergrad course of Introduction to Physical Oceanogra	phy 2013
•	Teaching Assistant for grad course of Computer Models of Fluid Dynamics	2013
•	Teaching Assistant for grad course of Geophysical Fluid Dynamics	2014 - 2016
•	Drifter deployments for measuring surface circulation in Florida Biscayne Bay	2016
•	Hydrological data collection in coastal ocean of South Florida	2014
•	Near real-time forecaster for drifter deployments in Gulf of Naples, Italy	2012
•	Visiting student at École Polytechnique Université Paris-Saclay, France	2015

Professional Skills

Fortran; MATLAB; Linux/Unix; Nek5000; VisIt; ParaView; Visual Basic; Excel; R; HTML; GitHub

Awards and Honors

• Scholarship for Doctoral Student at University of Miami, USA

2011 - 2016

•	Honor of Outstanding Student at Ocean University of China	2009 - 2010
•	Fellowship for Excellent Student at Ocean University of China	2009 - 2010
•	Fellowship of Excellent Academy at Ocean University of China	2008 - 2010
•	First Prize of Marine Knowledges Contest for National Undergraduate, China	2008
•	Second Prize of Mathematics Contest for National Undergraduate, Shandong, Cl	hina 2009

Social Services

•	Volunteer for US National Gandhi Day of Service	2015
•	Volunteer for UM/RSMAS Fundraising Auction	2015
•	Volunteer for Miami Baynanza Beach Cleanup and Exotic Plant Removal	2014
•	Co-founder of UM/RSMAS Garden Club	2013
•	Committee member of UM/RSMAS MPO Graduate Student Seminar	2013 - 2014

Professional Affiliations

American Geophysical Union

Publications

Submitted Manuscripts:

- Wang, P., Özgökmen, T. M., 2017. Langmuir circulation with explicit surface waves from moving-mesh modelling. *Geophysical Research Letters*.
- Zhai, L., Wang, X., **Wang, P.**, Zhang, B., Miralles-Wilhelm, F., Sternberg, L., 2017. Vegetation and discharge gate location affect evaporation in a tropical wetland as indicated by isotopic enrichment of reservoir water. *Journal of Hydrology*.

Peer-reviewed Journals:

- 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

- International Forum of Ocean Sciences for Outstanding Overseas Young Scholars
 Shanghai, China; June 2017
 Oral presentation: "Material transport within unstable eddies and Langmuir circulation"
- 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"

- 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"
- Consortium for Advanced Research on Transport of Hydrocarbon in the Environment
 Hollywood, FL, USA; April 2014
 Oral presentation: "3D instability in an isolated geophysical vortex"
- 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