Peng Wang, Ph.D.

Email: wangpeng@miami.edu Website: https://wangpengphd.github.io Address: 4600 Rickenbacker Causeway, Dept. of Ocean Sciences, Miami, FL 33149, USA **Education** Ph.D. in Meteorology and Physical Oceanography 2011 - 2016University of Miami, Miami, Florida, USA B.S. in Ocean Sciences 2007 - 2011Ocean University of China, Qingdao, Shandong, China Careers Postdoctoral Research Associate, University of Miami, USA 2016 – Present **Professional Experiences** Research Assistant at University of Miami 2011 - 2016Teaching Assistant of Geophysical Fluid Dynamics 2014 - 2016Teaching Assistant of Computer Models of Fluid Dynamics 2013 Teaching Assistant of *Introduction to Physical Oceanography* 2013 Field campaign of drifter deployments in Florida Biscayne Bay 2016 Field campaign of coastal currents sampling in South Florida 2014 Visiting student at École Polytechnique Université Paris-Saclay, France 2015 **Awards and Honors** Doctoral Scholarship at University of Miami, USA 2011 - 2016Outstanding Student Honor at Ocean University of China 2009 - 2010• Excellent Students Scholarship at Ocean University of China 2009 - 2010Excellent Academy Scholarship at Ocean University of China 2008 - 2010First Prize of National Undergraduate Marine Knowledges Contest, China 2008

Second Prize of National Undergraduate Mathematics Contest, Shandong, China

2009

Professional Skills

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

Professional Affiliations

American Geophysical Union

Voluntary Services

•	Volunteer for National Gandhi Day of Service	2015
•	Volunteer for UM/RSMAS Student Auction	2015
•	Volunteer for Miami 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

Submitted Manuscripts:

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

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