# 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
 Ocean University of China, Qingdao, Shandong, China

#### **Careers**

•	Postdoctoral Scholar, University of California, Los Angeles, USA Supervisor: Prof. James C. McWilliams	2017 – Present
•	Postdoctoral Research Associate, University of Miami, USA Supervisor: Prof. Tamay M. Özgökmen	2016 – 2017

# **Professional Experiences**

•	Research Assistant in Physical Oceanography at UM/RSMAS	2011 - 2016
•	Teaching Assistant for undergrad course of Introduction to Physical Oceanograp	ohy 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; R; HTML

### **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, China	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**

#### Peer-reviewed Articles:

- **Wang, P.**, Özgökmen, T. M., 2017. Langmuir circulation with explicit surface waves from moving-mesh modelling. *Geophysical Research Letters*, <u>DOI:10.1002/2017GL076009</u>.
- **Wang, P.**, Özgökmen, T. M., Haza, A. C., 2016. Material dispersion by oceanic internal waves. *Environmental Fluid Mechanics*, 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**

- Consortium for Advanced Research on Transport of Hydrocarbon in the Environment
   — Miami, FL, USA; November 2016
   Oral presentation: "Simulating Langmuir circulations without phase averaging
   surface gravity waves"
- 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