Peng Wang, Ph.D.

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Education

•	Ph.D. in Meteorology and Physical Oceanography	2016
	University of Miami, Miami, Florida, USA	
•	B.S. in Ocean Sciences	2011
	Ocean University of China, Qingdao, Shandong, China	

Careers

•	Postdoctoral Scholar, University of California, Los Angeles, USA (with Prof. James C. McWilliams)	2017 - Present
•	Postdoctoral Research Associate, University of Miami, USA (with Prof. Tamay M. Özgökmen)	2016 - 2017

Professional Experiences

•	Visiting scholar at KITP, University of California, Santa Barbara		2018
•	Visiting scholar at École Polytechnique Université Paris-Saclay, France		2015
•	Teaching Assistant for undergrad course of Introduction to Physical Oceanograp	phy	2013
•	Teaching Assistant for grad course of Computer Models of Fluid Dynamics		2013
•	Teaching Assistant for grad course of <i>Geophysical Fluid Dynamics</i>	2014 -	2016
•	Research Assistant in Physical Oceanography at UM/RSMAS	2011	- 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

Computer Skills

Fortran; MATLAB; Linux/Unix; Nek5000; ROMS; VisIt; GOTM; ParaView; Python; R; Visual Basic; 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, C	hina	2009

Reviewer Services

- National Science Foundation (United States)
- Geophysical Research Letters
- Journal of Ocean University of China

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 (AGU) Chinese-American Oceanic and Atmospheric Association (COAA)

Publications

Peer-reviewed Articles:

- **Wang, P.**, Özgökmen, T. M., 2018. 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*, <u>DOI:10.1007/s10652-016-9491-y</u>.

- **Wang, P.**, Özgökmen, T. M., 2016. Spiral inertial waves radiated from geophysical vortices. *Ocean Modelling*, <u>DOI:10.1016/j.ocemod.2016.01.001</u>.
- **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

- Planetary Boundary Layers in Atmospheres, Oceans, and Ice on Earth and Moons
 KITP, Santa Barbara, CA, USA; April May 2018
- Sun Yat-sen University Forum of Ocean Sciences for International Young Scholars
 Zhuhai, China; December 2017
 Oral presentation: "Material transport inside Langmuir circulation and an unstable eddy"
- East China Normal University Forum of Ocean Sciences for Outstanding Overseas Young Scholars
 - --- Shanghai, China; June 2017 *Oral presentation*: "Material transport within unstable eddies and Langmuir circulation"
- 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" 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" 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