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 - 201	6
•	Teaching Assistant for undergrad course of Introduction to Physical Oceanogra	<i>phy</i> 201	3
•	Teaching Assistant for grad course of Computer Models of Fluid Dynamics	201	3
•	Teaching Assistant for grad course of Geophysical Fluid Dynamics	2014 - 2016	6
•	Drifter deployments for measuring surface circulation in Florida Biscayne Bay	2016	6
•	Hydrological data collection in coastal ocean of South Florida	2014	4
•	Near real-time forecaster for drifter deployments in Gulf of Naples, Italy	2012	2
•	Visiting student at École Polytechnique Université Paris-Saclay, France	201	5

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, C	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

- 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"
- 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