**王 鹏**

**气象与物理海洋学博士**

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**网址：**https://wangpengphd.github.io

**单位：美国加州大学洛杉矶分校，大气与海洋科学系**

**学习经历**

* 2016. 美国迈阿密大学 气象与物理海洋学博士
* 2011. 中国海洋大学 海洋科学学士

**工作经历**

* 2017 至今. 美国加州大学洛杉矶分校博士后

(导师James C. McWilliams院士)

* 2016 – 2017. 美国迈阿密大学博士后

(导师Tamay M. Özgökmen教授)

**研究方向**

* 波流相互作用、朗缪尔环流
* 中尺度与亚中尺度海洋涡旋
* 波浪破碎带与陆架海环流

**专业相关经历**

* 2014 – 2016. 研究生课程助教 --- 地球流体力学
* 2013. 研究生课程助教 --- 计算流体力学
* 2013. 本科生课程助教 --- 物理海洋学导论
* 2016. 参与美国佛罗里达州比斯坎湾环流观测
* 2014. 参与美国佛罗里达州近海水文数据采集
* 2012. 参与意大利那不勒斯湾环流预报

**计算机技能**

Fortran; MATLAB; Linux/Unix; Nek5000; ROMS; VisIt; GOTM; etc.

**获得奖项**

* 2011 – 2016. 美国迈阿密大学博士生全额奖学金
* 2009 – 2010. 中国海洋大学优秀学生
* 2008 – 2010. 中国海洋大学人才基地奖学金
* 2008. 首届全国大学生海洋知识竞赛国家一等奖
* 2009. 全国大学生数学竞赛山东省二等奖

**学术评审服务**

* 美国自然科学基金审稿人
* Geophysical Research Letters 期刊审稿人
* Journal of Ocean University of China 期刊审稿人

**专业相关会员**

美国地球物理协会会员

中美海洋与大气协会会员

**文章著作**

*期刊文章：*

* **Wang, P.**, McWilliams, J. C., Uchiyama, Y., and Chekroun, M.. Effects of Wave Streaming and Wave Variations on Nearshore Wave-driven Circulation. J*ournal of Physical Oceanography*, under review Dec. 2019.
* Li, Q., et al. 2019. Comparing Ocean Surface Boundary Vertical Mixing Schemes Including Langmuir Turbulence. *Journal of Advances in Modeling Earth Systems*, DOI: <https://doi.org/10.1029/2019MS001810>.
* Brett, G., Pratt, L., Rypina, I., and **Wang, P.**, 2019. Competition between chaotic advection and diffusion: stirring and mixing in a 3D eddy model. *Nonlinear Process in Geophysics*, DOI: <https://doi.org/10.5194/npg-2018-54>.
* Zhai, L., Wang, X., **Wang, P.**, Zhang, B., Miralles-Wilhelm, F., Sternberg, L., 2019. Vegetation and location of water inflow affect evaporation in a subtropical wetland as indicated by the deuterium excess method. *Ecohydrolo*gy, [DOI: https://doi.org/10.1002/eco.2082](https://doi.org/10.1002/eco.2082)
* **Wang, P.**, Özgökmen, T. M., 2018. Langmuir circulation with explicit surface waves from moving-mesh modelling. *Geophysical Research Letters*, [DOI: https://doi.org/10.1002/2017GL076009](https://doi.org/10.1002/2017GL076009).
* **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](http://link.springer.com/article/10.1007%2Fs10652-016-9491-y).
* **Wang, P.**, Özgökmen, T. M., 2016. Spiral inertial waves radiated from geophysical vortices. *Ocean Modelling*, [DOI: https://doi.org/10.1016/j.ocemod.2016.01.001](https://doi.org/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: https://doi.org/10.1016/j.ocemod.2015.01.002](https://doi.org/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: https://doi.org/10.1063/1.4916086](https://doi.org/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: https://doi.org/10.1017/jfm.2013.583](https://doi.org/10.1017/jfm.2013.583).

*会议文章：*

* 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.*

*博士专题论文：*

* **Wang, P.**, 2016. Material dispersion by ocean eddies and waves. *Open Access Dissertations*, [Paper 1653](http://scholarlyrepository.miami.edu/oa_dissertations/1653/).

**学术会议**

* California GFD meeting at California Institute of Technology

--- Pasadena, California, USA; September 2019

*Oral Presentation*: “Effects of wave streaming and wave variations on nearshore wave-

driven circulation”

* 受邀访问中国科学院海洋研究所

--- Qingdao, Shandong, China; January 2019

*Invited talk*: “Wave-current interaction with application to Langmuir circulation”

* The Fourth Xiamen Symposium on Marine Environmental Sciences (XMAS-IV)

--- Xiamen, Fujian, China; January 2019

*Oral Presentation*: “Wave-current interaction with application to Langmuir circulation”

* 受邀访问南京信息工程大学

--- Nanjing, Jiangsu, China; January 2019

*Invited talk*: “Wave-current interaction with application to Langmuir circulation”

* 受邀访问中国海洋大学

--- Qingdao, Shandong, China; December 2018

*Invited talk*: “Wave-current interaction with application to Langmuir circulation”

* Planetary Boundary Layers in Atmospheres, Oceans, and Ice on Earth and Moons

--- KITP, Santa Barbara, CA, USA; April – May 2018

* 中山大学海洋科学优秀青年国际论坛

--- Zhuhai, China; December 2017

*Oral presentation*: “Material transport inside Langmuir circulation and an unstable eddy”

* 华东师范大学海外优秀青年论坛

--- 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