王 鹏

气象与物理海洋学博士

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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

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

工作经历

- 美国加州大学洛杉矶分校博士后 2017 - Present
  (导师 James C. McWilliams 院士)
- 美国迈阿密大学博士后 2016 - 2017
  (导师 Tamay M. Özgökmen 教授)

研究方向

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

专业相关经历

- 研究生课程助教 --- 地球流体力学 2014 - 2016
- 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 2013
- 参与美国佛罗里达州比斯坎湾环流观测 2016

- 参与美国佛罗里达州近海水文数据采集 2014
- 参与意大利那不勒斯湾环流预报 2012

计算机技能

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

获得奖项

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

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：

- Brett, G., Pratt, L., Rypina, I., and **Wang, P.**, 2018. 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.

- **Wang, P.**, Özgökmen, T. M., 2018. Langmuir circulation with explicit surface waves from moving-mesh modelling. *Geophysical Research Letters*, DOI: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.

- **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.

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.

学术会议

- 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