



## 杨文昌

博士后

普林斯顿大学

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### 研究领域

东非降水与干旱, 北极气候

ITCZ, 全球季风, 中纬度风暴路径, 火山对气候的影响

气候变率, 气候变化, 气候动力, 气候模式, 极端天气与气候

### 教育背景

2014 博士, 哥伦比亚大学(Columbia University)

博士论文: *The Hydroclimate of East Africa: Seasonal Cycle, Decadal Variability, and Human-induced Climate Change*. 导师: Richard Seager 教授, Mark A. Cane 教授

2007 硕士, 北京大学

2004 学士, 北京大学

### 工作经历

2017 12 – 今, 博士后, 普林斯顿大学

2015 01 – 2017 11, 博士后, 加州大学

### 获奖经历

2007 哥伦比亚大学艺术与科学研究生院奖学金(Faculty Fellowship)

北京大学物理学院钟盛标研究生学术论坛二等奖

2005 北京大学五四奖学金

2004 北京市优秀毕业生

北京大学优秀毕业生

2002 北京大学三好学生

2001 北京大学三好学生

2001 – 2004, 北京大学唐仲英基金会奖学金

2000 江苏省三好学生

1999 全国高中数学联赛江苏省一等奖

全国高中生物奥林匹克竞赛江苏省二等奖

全国高中物理奥林匹克竞赛江苏省三等奖

### 学术组织

美国地球物理学会(AGU) 会员

美国气象学会(AMS) 会员

## 学术兼职

### 审稿杂志

*Nature Climate Change, Scientific Reports, Climate Dynamics*  
*Journal of Climate, Journal of the Atmospheric Sciences*  
*Geophysical Research Letters, Journal of Geophysical Research-Atmospheres*  
*Quarterly Journal of the Royal Meteorological Society, International Journal of Climatology*  
*Journal of Applied Meteorology and Climatology, Advances in Atmospheric Sciences*

### 其它兼职

2015 Judge for the Outstanding Student Paper Awards in the AGU Fall Meeting  
2010 – 2011, Coordinator for the Division of Ocean and Climate Physics Seminars at Lamont,  
Columbia University

## 学术论文

- 2018 **Yang, W.**, G. Magnusdottir (2018): Year-to-year Variability in Arctic Minimum Sea Ice Extent and its Preconditions in Observations and the CESM Large Ensemble Simulations. *Scientific Reports*, doi: 10.1038/s41598-018-27149-y
- 2017 **Yang, W.**, G. Magnusdottir (2017): Springtime Extreme Moisture Transport into the Arctic and its Impact on Sea Ice Concentration. *J. Geophys. Res. Atmos.*, **122**, doi: 10.1002/2016JD026324
- 2016 **Yang, W.**, G. Magnusdottir (2016): Interannual Signature in Daily ITCZ States in the East Pacific in Boreal Spring, *J. Clim.*, **29**, 8013–8025, doi: 10.1175/JCLI-D-16-0395.1
- 2015 **Yang, W.**, R. Seager, M. A. Cane, and B. Lyon (2015): The Rainfall Annual Cycle Bias over East Africa in CMIP5 Coupled Climate Models. *J. Clim.*, **28**, 9789–9802, doi: 10.1175/JCLI-D-15-0323.1
- Yang, W.**, R. Seager, M. A. Cane, and B. Lyon (2015): The Annual Cycle of the East African Precipitation. *J. Clim.*, **28**, 2385–2404, doi: 10.1175/JCLI-D-14-00484.1
- 2014 **Yang, W.**, R. Seager, M. A. Cane, and B. Lyon (2014): The East African Long Rains in Observations and Models. *J. Clim.*, **27**, 7185–7202, doi: 10.1175/JCLI-D-13-00447.1
- 2013 **Yang, W.**, R. Seager, and M. A. Cane (2013): Zonal Momentum Balance in the Tropical Atmospheric Circulation During the Global Monsoon Mature Months. *J. Atmos. Sci.*, **70**, 583–599, doi: 10.1175/JAS-D-12-0140.1
- 2008 Nie, J., P. Wang, **W. Yang**, and B. Tan (2008): Northern Hemisphere Storm Tracks in Strong AO Anomaly Winters. *Atmos. Sci. Lett.*, **9**, 153–159, doi: 10.1002/asl.186
- 2007 **Yang, W.**, J. Nie, P. Lin, and B. Tan (2007): Baroclinic Wave Packets in an Extended Quasi-geostrophic Two-layer Model. *Geophys. Res. Lett.*, **34**, L05822, doi: 10.1029/2006GL029077

## 学术报告

- 2018 04.27, 普林斯顿大学大气海洋学学生论坛  
*Impact of Large Volcanic Eruptions in the FLOR Climate Model*
- 2016 12.16, 美国地球物理学会年会  
*Springtime Extreme Moisture Transport into the Arctic - Its Impact and Associated Large-scale Atmospheric circulation*
- 06.08, 北京大学大气海洋科学讲座  
*Decadal Variability of East African Hydroclimate in Observations and Models and the Implication for the Future Projection*
- 2015 12.14 (poster), 美国地球物理学会年会  
*The East Pacific Double ITCZ during Boreal Spring in Observations.*
- 2014 10.27, 哥伦比亚大学博士学位答辩  
*The Hydroclimate of East Africa: Seasonal cycle, Decadal Variability, and Human-induced Climate Change*
- 09.25, 耶鲁大学AOCD 讲座  
*Why is East Africa Drying during the Spring Rainy Season in Recent Decades?*
- 06.04, 普林斯顿地球流体实验室讲座  
*East African Precipitation and Droughts: from Decadal Variability to Annual Cycle*
- 05.28, 哥伦比亚大学GloDecH 会议  
*The Dual Peaked Seasonal Cycle of Precipitation Over Tropical East Africa*
- 2013 10.9-13 (poster), 美国地球物理学会年会  
*The East African Long Rains in Observations and Models*
- 06.12, 哥伦比亚大学GloDecH 会议  
*Lamont Decadal Variability of the East African Long Rains in Obs. and Models*
- 2012 12.3-7 (poster), 美国地球物理学会年会  
*Zonal Momentum Balance in the Tropical Atmospheric Circulation during the Global Monsoon Mature Months*
- 2011 12.5-9 (poster), 美国地球物理学会年会  
*Simulating and Diagnosing the Dynamics of the Global Monsoon in a Simple Tropical Atmosphere Model*
- 06.20, 麻省理工大学Atmosphere-Ocean Science Days  
*Global Monsoon Simulation in a Simple Numerical Model*
- 2009 04.09, Lamont Graduate Oral Meeting  
*Trends and Patterns of Different Monsoons over the Period of 1979–2007*
- 2007 05.26, 北京大学硕士论文答辩  
*Baroclinic Wave Packets in an Extended Quasi-geostrophic Two-layer Model*
- 2007 04.19, 北京大学Graduate Student Research Meetings  
*A Numerical Solution to the Quasi-geostrophic Two-layer Model*

## 授课经历

2009 秋季学期, 哥伦比亚大学助教

课程: *Quantitative Models of Climate-Sensitive Natural and Human Systems*

2008 秋季学期, 哥伦比亚大学助教

课程: *Quantitative Models of Climate-Sensitive Natural and Human Systems*

2006 春季学期, 北京大学助教

课程: 大气动力学