



杨文昌

博士后

普林斯顿大学

电子邮件: wenchang@princeton.edu

电话: +1(646)801-8086

个人主页: <https://scholar.princeton.edu/wenchang>

研究领域

气候变率, 气候变化, 极端天气与气候, 气候模拟

东非降水与干旱, 火山喷发与气候, 水汽输送与北极气候

ITCZ与ENSO, 全球季风, 中纬度风暴路径

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