

杨文昌

博士后学者

加州大学尔湾分校地球系统系

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研究领域

北极气候及变化, 水汽输送, 干旱与降水, 东非气候, ITCZ, 全球季风, 风暴路径, 理想大气模式

教育背景

2014 哥伦比亚大学地球与环境科学系哲学博士

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

2011 哥伦比亚大学地球与环境科学系哲学硕士

2007 北京大学物理学院大气科学系理学硕士。导师: 谭本旭教授

2004 北京大学物理学院大气科学系理学学士

学术论文

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 Quasigeostrophic Two-layer Model. *Geophys. Res. Lett.*, **34**, L05822, doi: 10.1029/2006GL029077

论文手稿

2017 **Yang, W.**, G. Magnusdottir (2017): Springtime Moisture Transport and September Arctic Sea Ice in Observations and Models. **in preparation**

2017 **Yang, W.**, G. Magnusdottir (2017): Springtime Extreme Moisture Transport into the Arctic through the Atlantic Pathway. *J. Geophys. Res. Atmos.*, **in revision**

研究经历

2015 01 – 现在, 加州大学尔湾分校博士后学者

2014 11 – 2014 12, 哥伦比亚大学博士后

2007 09 – 2014 10, 哥伦比亚大学助研

2004 09 – 2007 06, 北京大学助研

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

学术报告

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

学术兼职

审稿杂志

Nature Climate Change, 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

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

学术组织

美国地球物理学会(AGU) 会员
美国气象学会(AMS) 会员

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 – 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

联系人

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Lamont-Doherty Earth Observatory, Columbia University
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Dr. William Boos
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Dr. Gudrun Magnusdottir
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