## Yi Zhang

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Employment	Cou	stant Professor of Mathematics and Atmosphere/Ocean Science rant Institute of Mathematical Sciences York University, New York, NY, USA	Jan 2024-	
	Mill Univ	er Postdoctoral Fellow 2021-2024 er Institute for Basic Research in Sciences versity of California, Berkeley, CA, USA. Ilty host: William Boos	Jul 2021–Dec 2023	
EDUCATION	Prin	<b>D. Atmospheric and Oceanic Sciences</b> ceton University, Princeton, NJ, USA. iser: Stephan Fueglistaler	Jun 2021	
		. Atmospheric and Oceanic Sciences ceton University, Princeton, NJ, USA.	Sep 2018	
	<b>B.S. Physics (major) and Economics (minor)</b> Jul 2016Peking University, Beijing, China.			
Preprints	[1]	<ol> <li>Zhang, Y., et al. (2023). Forecasting Tropical Annual Maximum Wet-Bulb Temperatures Months in Advance from the Current State of El Niño. Authorea Preprints. https://doi.org/ 10.22541/essoar.169904863.32131871/v1</li> </ol>		
PUBLICATIONS	[2] Zhang, Y. and Boos, W. (2023). An upper bound for extreme temperatures over midlatitude land. <i>Proceedings of the National Academy of Sciences</i> , 120(12), e2215278120. https://doi. org/10.1073/pnas.2215278120.			
		(Physics Magazine —"Predicting Heatwaves' Highest Temperatures")		
	[3] Noyelle, R., Zhang, Y., Yiou, P., and Faranda, D. (2023). Maximal reachable temperatu for Western Europe in current climate. <i>Environmental Research Letters</i> , 18(9), 094061. htt //doi.org/10.1088/1748-9326/acf679.		-	
	[4]	Zhang, Y., Held, I., and Fueglistaler, S. (2021). Projections of tropical heat stress under global warming constrained by atmospheric dynamics. <i>Nature Geoscience</i> , 14, 133–137. https://doi.org/10.1038/s41561-021-00695-3.		
		(New York Times —''Global Warming's Deadly Combination: Heat and	•	
		The Guardian —"Global heating pushes tropical regions towards limits	-	
	[5] Raymond, C. et al. (2021). On the Controlling Factors for Globally Extreme Humid Heat. Geophysical Research Letters, 48(23), e2021GL096082. https://doi.org/10.1029/2021GL096082			
	[6]	Zhang, Y., Jeevanjee, N., and Fueglistaler, S. (2020). Linearity of outgo From an atmospheric column to global climate models. <i>Geophysical</i> 2 e2020GL089235. https://doi.org/10.1029/2020GL089235.	6 6	

[7] Zhang, Y. and Fueglistaler, S. (2020). How tropical convection couples high moist static energy over land and ocean. *Geophysical Research Letters*, 47(2), e2019GL086387. https://doi.org/10.1029/2019GL086387.
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(Eos Editors' Highlight—"How Does Convection Work Over the Tropics?")

[8] Zhang, Y. and Fueglistaler, S. (2019). Mechanism for increasing tropical rainfall unevenness

	with global warming. <i>Geophysical Research Letters</i> , 46(24), 14836-14843. https://doi.org/10. 1029/2019GL086058.
	(Eos Editors' Highlight—"Understanding Tropical Rainfall Projections Under Climate Change")
Invited Talks	<ul> <li>Atmospheric and Oceanic Science Departmental Seminar, McGill University, Feb 2024.</li> <li>Ocean and Climate Physics Seminar, Lamont-Doherty Earth Observatory, Feb 2024.</li> <li>Atmospheric sciences colloquia, University of Illinois Urbana-Champaign, Sep 2023.</li> <li>AGU Fall Meeting 2023, San Francisco, Dec 2023.</li> <li>Atmospheric sciences colloquia, University of Illinois Urbana-Champaign, Sep 2023.</li> </ul>
	• Continental Climate Workshop, Harvard University Center for the Environment (HUCE), Jun 2023.
	• Center for Atmosphere Ocean Science (CAOS) Colloquium, Courant Institute, New York University, Mar 2023.
	• American Physical Society (APS), March Meeting, Las Vegas, Mar 2023.
	• Environmental Science and Engineering (ESE) Seminar, California Institute of Technology, Mar 2023.
	• Department of Atmospheric and Oceanic Sciences, University of California, Los Angeles, Feb 2023.
	• Climate Seminar, Program in Atmospheric and Oceanic Sciences, Department of Geosciences, High Meadows Environmental Institute, Princeton University, Feb 2023.
	• American Geophysical Union (AGU) Fall Meeting 2022, Dec 2022.
	AGU Atmospheric Section Early-Career Seminar, online, Aug 2022.
	• Continental Climate Change Workshop, University of St Andrews, UK, Jun 2022.
	Atmospheric and Oceanic Sciences Seminar, University of California, Los Angeles, Oct 2021
	• Earth and Planetary Science Seminar, University of California, Berkeley, Oct 2021
	Yale-NUIST Center on Atmospheric Environment, May 2021.
	• Atmosphere Ocean Climate Dynamics (AOCD) Seminars, Yale University, Mar 25, 2021
	American Geophysical Union Fall Meeting 2020, Dec 2020.
	• "Tent and Tent Poles: Simple Theories to Understand Rainfall and Extreme Heat in the Tropics", Climate Seminar Series, Princeton University, Princeton, NJ, Feb 2020.
Conference Talks	<ul><li>AGU Fall Meeting 2023, San Francisco, Dec 2023.</li><li>CalGFD, La Jolla, Sep 2023.</li></ul>
	• European Meteorological Society Annual Meeting 2022, virtual, Sep 2022.
	• 2nd Model Hierarchy Workshop, Stanford, Aug 2022.
	• European Geosciences Union General Assembly 2022, virtual, May 2022.
	• American Meteorological Society's 102nd Annual Meeting, January 2022.
	• American Geophysical Union Fall Meeting 2021, Dec 2021.
	• American Meteorological Society's 34th Conference on Hurricanes and Tropical Meteorology, May 2021.
	• European Geosciences Union General Assembly 2021, virtual, Apr 2021.
	• American Geophysical Union Fall Meeting 2020, virtual, Dec 2020.
	• From Spectroscopy to Climate" Virtual Workshop, Princeton, NJ, Jun 2020.
	• American Geophysical Union Fall Meeting 2019, San Francisco, CA, Dec 2019.
	• 22nd Atmospheric and Oceanic Fluid Dynamics Conference, Portland, Maine, Jun 2019.

Posters	Gordon Research Conference on Radiation and Climate, Bates College, Jul 2023.					
	• 23rd Conference on Atmospheric and Oceanic Fluid Dynamics, Breckenridge, CO, Jun 2022.					
	• GFDL Poster Expo, May 2019.					
	• American Geophysical Union Fall Meeting 2018, Washington D.C., Dec 2018.					
TEACHING	Teaching Assistant, EPS 198: Careers in the Earth and Planetary Sciences and Beyond, University of California, Berkeley Spring 2023					
	Teaching Assistant, ENV 367: Modeling the Earth System, Princeton University	Fall 2018				
	Teaching Assistant, GEO 361: Earth's Atmosphere, Princeton University	Fall 2017				
	Teaching Assistant, Methods of Mathematical Physics, Peking University	Spring 2016				
SERVICE	<b>Session chair</b> for the 23rd Conference on Atmospheric and Oceanic Fluid Dynamics, and the 2nd Model Hierarchy Workshop.					
	<b>Judge</b> of student presentations for the 23rd Conference on Atmospheric and Oceanic Fluid Dynamics and the 2022 Fall Meeting of the American Geophysical Union.					
	<b>Reviewer</b> for <i>Proceedings of the National Academy of Sciences, Nature Geoscience, Scientific Reports, Geophysical Research Letters, Mitigation and Adaptation Strategies for Global Change, Journal of Climate, Earth's Future.</i>					
	Reader for senior thesis in Department of Geosciences, Princeton University.					
	Mentor for junior graduate students in the Princeton Women in Geosciences Mentoring Program.					
	Student-Faculty Representative for AOS Program, Fall 2019-Spring 2020.					
	Organizer of 2019 AOS Workshop on "Machine Learning and Climate Modeling",	ng and Climate Modeling", Princeton, NJ.				
	<b>Organizer</b> of the 2018 weekly AOS student-postdoc seminar series, Princeton, NJ. <b>Volunteer</b> for 2022 Fall El Cerrito Highschool outreach, El Cerrito, CA.					
	<b>Volunteer</b> for 2018 Young Women's Conference in STEM, Princeton Plasma Phys Princeton, NJ.	sics Laboratory,				
Awards	Wagner Award for Women in Atmospheric Sciences, 2021					
	NOAA Climate & Global Change Fellowship 2021 (declined)					
	Miller Research Fellowship 2021-2024, Miller Institute, UC Berkeley					
	Outstanding Student and PhD candidate Presentation Award, European Geosciences Union, General Assembly 2021					
	First Place Oral Presentation Award, 34th Conference on Hurricanes and Tropical Meteorology Virtual Meeting, 2021					
	Outstanding Student Presentation Award, American Geophysical Union Fall Meeting 2019					
	James and Teresa Mi s'91 Graduate Fellowship, Princeton University, 2017					