PENGCHENG ZHANG 张鹏程

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Education

Ph.D., Oceanography, Scripps Institution of Oceanography, La Jolla, CA, USA.   Sept.2020 - present
   · Advisors: Nick Lutsko and Shang-Ping Xie.

B.S., Atmospheric Science, Peking University, Beijing, China.   Sept. 2016 - Jul. 2020
   · Thesis: Dynamics of Coastal Low-Level Jets.
   · Advisors: Eli Tziperman and Yongyun Hu.

Publications

Zhang, P., Xie, S.-P., and Kosaka, Y. Non-ENSO precursors for a coherent mode of summer monsoon variability with implications for predictability. Manuscript in preparation.

Zhang, P. and Lutsko, N.J., 2022: Seasonal Superrotation in Earth's Troposphere. *Journal of the Atmospheric Sciences*, in press.

Selected Presentations and Conferences

"Seasonal Superrotation in Earth's Troposphere" (talk), California Geophysical Fluid Dynamics (CalGFD) Meeting, Pasadena, CA, 18-19 August 2022.

"Seasonal Superrotation in Earth's Troposphere" (poster), 23rd Conference on Atmospheric and Oceanic Fluid Dynamics (AOFD), Breckenridge, CO, 13-17 June 2022.

"Dynamics of Coastal Low-Level Jets" (poster), American Geophysical Union (AGU) Fall Meeting, Virtual, December 2020.

"New Insights into the Dynamics of Coastal Low-Level Jets: A Vorticity Perspective" (talk), California Geophysical Fluid Dynamics (CalGFD) Meeting, Virtual, August 2020.

Teaching

Summer 2022   **Instructor** Math 7, Math 9 and LaTeX for Math & Computing Workshop
Spring 2022   **Teaching Assistant** SIO 173: Dynamics of the Atmosphere and Climate

Department Seminars

Autumn 2022   Scripps Student Symposium at Scripps Institution of Oceanography
Spring 2022   Climate Journal Club at Scripps Institution of Oceanography

Selected Awards and Honors

Regents Fellowship of Scripps Institution of Oceanography (32,000 USD), 2020.

PKU Scholar in Physics of Peking University (3,000 CNY), 2020.

Merit Student of Peking University, 2019.

Founder Scholarship of Peking University (5,000 CNY), 2019.

First Prize, **34th Physics Competition for Undergraduates**, China, 2017.

First Prize (Top 100 in China), **32nd Chinese Physics Olympiad, Final**, China, 2015.

First Prize (4th place among >300,000), **32nd Chinese Physics Olympiad, Semi-finals**, Shandong Province, 2015.

Additional Information

Languages:

Mandarin (native), English (fluent).

Programming/Computer Skills:

Python, NCL, Julia, C/C++, LaTeX, FORTRAN, CESM.