

# PENGCHENG ZHANG 张鹏程

Scripps Institution of Oceanography, UC San Diego

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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. *Journal of Climate*, manuscript in preparation.

**Zhang, P.** and Lutsko, N.J., 2022: Seasonal Superrotation in Earth's Troposphere. *Journal of the Atmospheric Sciences*, 79(12), 3297-3314.

## Selected Presentations and Conferences

"Non-ENSO precursors for a coherent mode of summer monsoon variability with implications for predictability" (talk), American Geophysical Union (AGU) Fall Meeting, Chicago, IL, 12-16 December 2022.

"Seasonal Superrotation in Earth's Troposphere" (poster), American Geophysical Union (AGU) Fall Meeting, Chicago, IL, 12-16 December 2022.

"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      Climate Journal Club at Scripps Institution of Oceanography

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

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

**Merit Student**, Peking University, 2019.

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

First Prize, **34<sup>th</sup> Physics Competition for Undergraduates**, China, 2017.

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

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

## **Professional Activities and Service**

**Journal review:**

Journal of Climate.

## **Additional Information**

**Languages:**

Mandarin (native), English (fluent).

**Programming/Computer Skills:**

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