

# Yao Yu

☎ +1(725)600-2649

| 9500 Gilman Drive, CA 92093

| ✉ yayu@ucsd.edu

## Education

---

### University of California, San Diego

PhD student in Earth Sciences

Advisors: David Sandwell & Sarah Gille

Master of Science in Earth Sciences

**La Jolla, USA**

*August, 2018 – now*

*August, 2018 - January, 2020*

### Wuhan University

Master in Geodesy and Geomatics Engineering

Bachelor in Geodesy and Survey Engineering

Advisor: Zhicai Luo

**Wuhan, China**

*September, 2015 - June, 2018*

*September, 2011 - June, 2015*

### Academia Sinica

Visiting Student

Advisor: Benjamin F. Chao

**Taipei, Taiwan**

*November, 2016-March, 2017; October, 2017-February, 2018*

## Publications

---

**Yu, Y.**, Sandwell, D. T., & Gille, S. T. Seasonality of the Sub-mesoscale to Mesoscale Sea Surface Variability from Multi-Year Satellite Altimetry. *Journal of Geophysical Research: Oceans*, <https://doi.org/10.1029/2022JC019486> [pdf].

**Yu, Y.**, Gille, T., & Sandwell, D. (2022). Global Mesoscale Ocean Variability from Multiyear Altimetry: An Analysis of the Influencing Factors, *Artificial Intelligence for the Earth Systems*, <https://doi.org/10.1175/AIES-D-21-0008.1> [pdf].

Sandwell, D. T., Goff, J. A., Gevorgian, J., Harper, H., Kim, S. S., **Yu, Y.**, Tozer, B., Wessel, P., & Smith, W. H. (2022). Improved Bathymetric Prediction Using Geological Information: SYN BATH. *Earth and Space Science*, <https://doi.org/10.1029/2021EA002069> [pdf].

**Yu, Y.**, Sandwell, D., Gille, T., & Villas Bôas, A.B. (2021). Assessment of ICESat-2 for the recovery of ocean topography, *Geophysical Journal International*, <https://doi.org/10.1093/gji/ggab084> [pdf]

Chao, B. F., & **Yu, Y.** (2020). Variation of the Equatorial Moments of Inertia Associated with a 6-year Westward Rotary Motion in the Earth, *Earth and Planetary Science Letters*, <https://doi.org/10.1016/j.epsl.2020.116316> [pdf]

Chao, B. F., **Yu, Y.**, & Chung, C.H. (2020). Variation of Earth's Oblateness J<sub>2</sub> on Interannual-to-Decadal Timescales: Climate Connections, *Journal of Geophysical Research*, <https://doi.org/10.1029/2020JB019421> [pdf]

Tanaka, Y., **Yu, Y.**, & Chao, B. F. (2019). Gravity and geoid changes by the 2004 and 2012 Sumatra earthquakes from satellite gravimetry and ocean altimetry. *Terr. Atmos. Ocean. Sci.*, doi:10.3319/TAO.2018.10.24.02 [pdf]

Yu, Y., Chao, B. F., García-García, D., & Luo, Z. (2018). Variations of the Argentine gyre observed in the GRACE time-variable gravity measurements and Ocean Altimetry, *Journal of Geophysical Research, Oceans*, <https://doi.org/10.1029/2018JC014189> [pdf]

## Teaching experience

---

Teaching assistant of SIO 111 Ocean waves (undergraduate level)

winter quarter, 2022

## Professional service

---

Reviewer	GRL 2022- ;IEEE TGRS 2023-
AGU Geodesy Executive Committee student representative	2022-
SIO student mentor	2020-2022
GEBCO Bathymetric Compilation Group	2021

## Conference presentations

---

AGU fall meeting	2019, 2020, 2021, 2022
Ocean sciences meeting	2020, 2022
SWOT science team meeting	2022
Asia Ocean Geosciences Society	2017

## Field work

---

GPS survey at Mexicali, Mexico	March 8-9, 2020
R/V Sally Ride at Fieberling seamount chains	January 13-23, 2020
GPS survey at Ridgecrest, California	July 12, November 10-11, 2019
GPS survey at Painted Canyon, California	March 2-3, 2019
GPS survey at Palm desert, California	November 12-13, 2018