YaoYu

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Education

**University of California, San Diego La Jolla, USA**

PhD student in Earth Sciences *August, 2018 – now*

Advisors: David Sandwell & Sarah Gille

Master of Science in Earth Sciences *August, 2018 - January, 2020*

**Wuhan University Wuhan, China**

Master in Geodesy and Geomatics Engineering September, 2015 - June, 2018

Bachelor in Geodesy and Survey Engineering  September, 2011 - June, 2015

Advisor: Zhicai Luo

**Academia Sinica Taipei, Taiwan**

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

Advisor: Benjamin F. Chao

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](https://drive.google.com/file/d/10DZhWeiJ-yEUqpUYi36yYzJoF97cEscx/view?usp=share_link)].

**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](https://drive.google.com/file/d/1HAcZIs9TPQKPr6MS1Uc7KEc0JJ-8Vk2H/view?usp=sharing)].

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: SYNBATH. *Earth and Space Science*, <https://doi.org/10.1029/2021EA002069> [[pdf](https://drive.google.com/file/d/1DD7wQy9SCVUDRjQ5m0w7exERNaYRlWZQ/view?usp=sharing)].

**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](https://drive.google.com/file/d/1lrtFZXjIfW2zDfr4WPMsqZa0ugJ2FecF/view?usp=sharing)]

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](https://drive.google.com/file/d/13B4h61VkUbJ44FzXjgToXwC6q4Il_Enn/view?usp=sharing)]

Chao, B. F., **Yu, Y.**, & Chung, C.H. (2020). Variation of Earth's Oblateness J2 on Interannual-to-Decadal Timescales: Climate Connections, *Journal of Geophysical Research*, <https://doi.org/10.1029/2020JB019421> [[pdf](https://drive.google.com/file/d/1vObWP_5Q7tHMz63CeELB1sEAxLmGBRTC/view?usp=sharing)]

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](https://drive.google.com/file/d/1bP2WB5WqPS8T9m6AeaOst8Uh4A2DEfjJ/view?usp=sharing)]

**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](https://drive.google.com/file/d/1ukT1FaWl0Ubqj_mJ44jeov4_-g94ooGP/view?usp=sharing)]

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