

Isabel Yuying Wu

Phone: (+1) 857-322-2247

Email: yuyingwu711@gmail.com

Education

- Mar 2019-
Aug 2019** **University of California, San Diego**
Visiting student, GPA: 3.92/4.0
• Coursework: Vector Calculus, Differential Equation, PDE, ODE
- Jan 2018-
Sep 2018** **Massachusetts Institute of Technology, Department of Earth, Atmospheric and Planetary Sciences**
Visiting Student in Physical Oceanography
• Coursework: 12.307 Weather and Climate
- Jul 2017** **Universidad Politécnica de Madrid, Madrid, Spain**
Summer School Student, Rank: 2/21
• Participated academic activities in satellite launching, hydrogen vehicle and cybersecurity
- Sep 2014 –
Aug 2018** **Tongji University, School of Ocean and Earth Science, Shanghai, China**
Bachelor of Science in Oceanography, GPA: 86/100 (four years), 95/100 (last two years)
• Studied in oceanography and earth science
• Took classes in math, oceanography, geology, geophysics, remote sensing, GIS

Research Experience

- Dec 2018** **American Geophysical Union Fall Meeting 2018, Washington DC**
Oral Presenter in Ocean Science: OS41A-07,
• Title: Vertical Structure and Evolution of an anticyclonic eddy in the South China Sea
• Session: Physical Oceanography, Geodynamics, and Ecological Environment of the Western Pacific
- Jan 2018 -
Dec 2018** **Massachusetts Institute of Technology, Department of Earth, Atmospheric and Planetary Sciences**
Undergraduate Research in Physical Oceanography,
• Collected and interpreted SSH datasets from NASA, HYCOM, AVISO
• Used statistics tools to analyze the relationship between chlorophyll distribution and mesoscale eddy
• Calculated mixed layer depth to compare its difference between eddy center and surrounding water
• Ran MATLAB models to track one eddy's movement and analyzed its vertical structure changes
- 2016-2018** **Tongji University, School of Ocean and Earth Science, Shanghai, China**
Research Assistant in Physical Oceanography,
• Focus on mesoscale eddies in the Western Pacific Ocean and Kuroshio Current
• Researched the annual changes of mesoscale eddies in the South China Sea

- 2016-2017** **Tongji University, School of Ocean and Earth Science, Shanghai, China**
Research Assistant in Biological Oceanography,
- Researched branched GDGTs (membrane spanning lipids) for paleoclimatology
 - Calculated MBT/CBT biomarker proxy to analyze the soil temperature and PH
 - Did column chromatography in organic geochemistry lab

Honors and Awards

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| 2018 | Tongji University Study Abroad Travel Grant |
| 2018 | Tongji University Talent Program Fellowship |
| 2018 | Chinese National Innovation Research Program for College Students, Outstanding Winner |
| 2017 | Tongji University Spanish Study Abroad Fellowship |
| 2016 | Tongji University Outstanding Student Scholarship (Third Prize) |
| 2016 | Tongji University Mathematical Modeling Contest (Third Prize) |

Special Skills

- Computer:** MATLAB, Python, Linux, HTML, SPSS
- Officework:** Microsoft Word, PowerPoint, Excel
- Interests :** Data Visualization, Graphic Design, Photography, Planting
- Media:** Adobe Premiere Pro (for video), Adobe Photoshop (for photo)
- Language:** English (fluent), Chinese (native), Japanese (basic)
- Research Interests:** Mesoscale eddies, Bio-physical interaction, Mixed Layer Depth, Earth data visualization
- Familiar Datasets:** HYCOM, AVISO, ECCO4, NASA MODIS