

An-Yi Huang (He/Him/His)

Research Assistant (full time)

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EDUCATION

- 2017 *M.S.*, Department of Marine Environmental Informatics (Oceanography), National Taiwan Ocean University, Keelung, Taiwan
Thesis title: "Simulation of Typhoon Surges around the Taiwan Coast" (Advisor: Dr. Yao-Tsai Lo)
- 2016 *B.S.*, Department of Marine Environmental Informatics (Oceanography), National Taiwan Ocean University, Keelung, Taiwan
Certificate for Geoscience Program, College of Ocean Science and Resource, National Taiwan Ocean University, Keelung, Taiwan
Certificate for Applied GIS Program, College of Ocean Science and Resource, National Taiwan Ocean University, Keelung, Taiwan

EMPLOYMENT

- 10/2018–present *Research Assistant* (full time), Research Center for Environmental Change, Academia Sinica; Department of Earth and Life Science, University of Taipei (Supervisor: Dr. Chi-Cherng Hong)
- 02/2018–09/2018 *Research Assistant* (full time), National Science and Technology Center for Disaster Reduction (Supervisor: Dr. Chi-Cherng Hong)
- 09/2015–01/2016 *Teaching Assistant* (course: *Introduction to Computers*), Department of Marine Environmental Informatics, National Taiwan Ocean University (Academic Advisor: Dr. Yao-Tsai Lo)
- 07/2014–08/2014 *Summer Internship*, Marine Meteorology Center, Central Weather Bureau (Academic Advisor: Dr. Shih-Jen Huang)

AWARDS & HONORS

- 2016 *Scholarship* of Distinguished Student (sponsored by class year 71 alumni)
- 2015 *Scholarship* of Five-Year BS-MS Program (offered by National Taiwan Ocean University)
- 2014 *Excellence Award* of Club Evaluation (Chinese Music Club)
- 2013 *Excellence Award* of National Student Competition of Music (Bamboo-Flute)

RESEARCH INTEREST & EXPERIENCE

East Asian Winter/Summer Monsoon

ENSO Dynamics and Predictability

Global Large-scale Circulations

PUBLICATIONS

Manuscripts (in preparation/to be submitted):

- Hong, C.-C., C.-C. Chang, and **A.-Y. Huang**, 2022: Effect of Warming Trend Component on East Asian Summer Monsoon Circulation: A Comparison of 1998 and 2020. To be submitted to *Weather and Climate Extremes*.
- Sullivan, A., C.-C. Hong, **A.-Y. Huang**, and C.-C. Chang, 2022: What 40 member runs could tell us by using ACCESS-

ESM1.5 historical/ssp585 runs to analysis the Pacific tropical-extra tropical interaction to the Austral-Asia Monsoon, El Niño, and the Heat Wave. In preparation.

Manuscript (under review):

1. Eusebi Borzelli, G. L., A. Sullivan, **A.-Y. Huang**, and C.-C. Hong, 2022: Sea Surface Temperature Anomaly, Kelvin Waves propagation and relationships with El Niño Southern Oscillation. Submitted to *Climate Dynamics*.

Peer-reviewed papers:

1. Kao, P.-K., C.-C. Hong, **A.-Y. Huang**, and C.-C. Chang, 2022: Intensification of Interannual Cross-Basin SST Interaction between the North Atlantic Tripole and Pacific Meridional Mode since the 1990s. *Journal of Climate*, published online. <https://doi.org/10.1175/JCLI-D-21-0594.1>
2. Wu, Y.-K., C.-C. Hong, T. Li, and **A.-Y. Huang**, 2022: Role of Low-Frequency Wind Variability in Inducing WWBs during the Onset of Super El Niños. *Climate Dynamics*, published online. <https://doi.org/10.1007/s00382-022-06322-0>
3. Sullivan, A., W. Zhong, G. L. Eusebi Borzelli, T. Geng, C. Mackallah, B. Ng, C.-C. Hong, W. Cai, **A.-Y. Huang**, and R. Bodman, 2021: Generation of westerly wind bursts by forcing outside the tropics. *Scientific Reports*, **11**, 912. <https://doi.org/10.1038/s41598-020-79655-7>
4. Wu, Y.-K., **A.-Y. Huang**, C.-K. Wu, C.-C. Hong, and C.-C. Chang, 2020: Effect of Warm SST in the Subtropical Eastern North Pacific on Triggering the Abrupt Change of the Mei-Yu Rainfall over South China in the Early 1990s. *Journal of Climate*, **33**(2), 657-673. <https://doi.org/10.1175/JCLI-D-18-0292.1>

PRESENTATIONS

1. **Huang, A.-Y.**, C.-C. Hong, H.-H. Hsu, W.-L. Tseng, P.-C. Hsu, and M.-H. Lo, 2022: Effect of Enhanced Diabatic Heating over Maritime Continent and Extreme Weather in East Asia-Western North Pacific in Early Summer. 2022 *Taiwan Geosciences Assembly: Conference on Weather Analysis and Forecasting*, Taipei, Taiwan. *Poster*.
2. **Huang, A.-Y.**, C.-C. Hong, H.-H. Hsu, W.-L. Tseng, P.-C. Hsu, and M.-H. Lo, 2021: Combined Effect of High Sea Surface Temperatures in Tropical Atlantic and Indian Ocean and Record South Asian High on Extreme Mei-Yu Rainfall over Yangtze–Huai River Valley and Japan in Early Summer of 2020. 2021 *Climate Hotspots in Action Forum and Year of Maritime Continent Workshop (CHiAxYMC)*, Online Meeting. *Poster*.
3. **Huang, A.-Y.**, C.-C. Hong, H.-H. Hsu, Y.-K. Wu, M.-Y. Lee, W.-L. Tseng, and C.-C. Chang, 2020: Comparison of Yangtze–Huai River Valley Floods between 1998 and 2020. 3rd *Climate Hotspots in Action (CHiA) Forum*, Taipei, Taiwan. *Poster*.
4. **Huang, A.-Y.**, C.-C. Hong, and Y.-K. Wu, 2019: Enhancement of Interdecadal Linkage between the Tropical Central Pacific and the Extratropical North Pacific SSTs in the Late 1980s. 2019 *Taiwan Geosciences Assembly: Conference on Weather Analysis and Forecasting*, Taipei, Taiwan. *Poster*.
5. **Huang, A.-Y.** and Yao-Tsai Lo, 2017: Simulation of Typhoon Surges around the Taiwan Coast. *Conference on Weather Analysis and Forecasting*, Taipei, Taiwan. *Poster*.

SKILLS & LANGUAGES

Programming	MATLAB (data processing, analysis, and visualization), NCL (data processing and analysis), GrADS (visualization), Python (data processing) and Fortran (numerical modeling: ICTP-AGCM SPEEDY & POM)
Software	Microsoft Office (Word, PowerPoint, Excel, & Access) and Photoshop
Languages	Mandarin (native), English (TOEFL iBT: 89/120), Taiwanese Hokkien, and Taiwanese Hakka

SELECTED EXTRACURRICULAR

2014–2015	Director of volleyball division of 31 th Earth Cup joint sport competition
2014–2015	Captain of male volleyball team
2013–2014	General director of Traditional Orchestra & Vice director of Chinese Music Club
2010–2011	Coordinator & performer (Bamboo-Flute) of Shiang-Wang Chinese Music Benefit Concert (cooperated with <i>The Red Cross Society</i>)

REFERENCES

- Chi-Cherng Hong Dean of College of Science, University of Taipei, Taiwan
Professor of Department of Earth and Life Science, University of Taipei, Taiwan
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Website: <http://utweb.utapei.edu.tw/~climate/english/>
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- Yao-Tsai Lo Assistant Professor of Department of Marine Environmental Informatics, National Taiwan Ocean University, Keelung, Taiwan
Email: lo@mail.ntou.edu.tw
Website: <https://mei.ntou.edu.tw/p/405-1079-63542,c3989.php?Lang=en>
- Shih-Jen Huang Associate Professor of Department of Marine Environmental Informatics, National Taiwan Ocean University, Keelung Taiwan
Email: huangsj@email.ntou.edu.tw
Website: <https://mei.ntou.edu.tw/p/405-1079-63565,c3989.php?Lang=en>