Yuxin Liu

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Motivated PhD student specializing in **coral-dinoflagellate symbiosis** with a robust background in **Marine Ecology**, **Phycology**, and **Photosynthesis**. Experienced in conducting in-depth research and analysis to understand how marine primary producers adapt to global climate and environmental changes.

EDUCATION

2024 - 04 – present	Integrated Biosciences, PhD	The University of Tokyo, Japan
2022 - 04 - 2024 - 03	Applied Marine Biology, MSc	Tohoku University, Japan
2016 - 09 - 2020 - 06	Marine Resources and Environment, BSc	Ocean University of China, China

PROFESSIONAL EXPERIENCE

2023 - 11 – 2024 - 03 Macroevolution Unit, Okinawa Institute of Science and Technology

- Analyzed morphological features of epiphytic gastropods inhabiting seaweeds
- Collected fish phenotypes and analyzed biometrics in Large Marine Ecosystems (LME) around Japan

2021 - 04 – 2023 - 11 Chloroplast Systems and Synthetic Biology Laboratory, Westlake University

- Maintained the **high-throughput** mutant library of *Chlamydomonas reinhardtii*
- Provided support to the mutant screening system via robotics and plant/algal phenotyping facilities
- Conducted experiments on the GATA transcription factor to explore photosynthetic gene regulation

2017 - 11 - 2021 - 02 Laboratory of Phycology and Algal Aquaculture, Ocean University of China

- Completed research on the responses of seaweed to ocean acidification and eutrophication
- Assisted with mesoscale experiments and prepared reports on seaweed aquaculture
- Participated in the collection of **seaweed specimens** for Shandong Museum

2017-09-2018-06 Laboratory of Fisheries Ecosystem Monitoring and Assessment, Ocean University of China

- Completed species identification of fish collected from Haizhou Bay fishery resources surveys
- Conducted size spectra, stomach content, and stable isotope analysis
- Assisted the course *Biological Resource Survey Techniques*

2018 - 08 - 2019 - 06 Key Laboratory of Marine Ecology and Environment Science, Chinese Academy of Sciences

- Completed the species identification of **phytoplankton** collected from cruises around the Yangtze River Estuary
- Investigated the relationship between algae feed and locomotor behavior of sea cucumber Apostichopus armata

SKILLS

Diving: Advanced Open Water Diver with 50+ scuba dives and 200+ snorkeling excursions for field investigations; Programming language: Python and R; Technical skills: Isolating and analyzing DNA, RNA and protein, Molecular cloning, Scanning electron microscopy, Data gathering and evaluation, Scientific Drawing

Languages: Mandarin Chinese (Native), English (Fluent), Japanese (Fluent), Korean (Basic)

PUBLICATIONS & PRESENTATIONS

Liu, Y., Cao, J., Chu, Y. *et al.* The brown algae *Saccharina japonica* and *Sargassum horneri* exhibit species-specific responses to synergistic stress of ocean acidification and eutrophication. *Journal of Ocean University of China* 20, 1253–1262 (2021). https://doi.org/10.1007/s11802-021-4853-6

Zhang, Y., Xu, J., Liu, Y., et al. Effects of elevated atmospheric concentration of CO₂ on growth of *Zostera marina* (in Chinese). *Periodical of Ocean University of China* 50 (06), 1253–1262 (2020). https://10.16441/j.cnki.hdxb.20180284

Liu, Y., Abe, T., Nakano, K., *et al.* Canopy-forming brown algae and understory red algae as temporally variable habitats for epiphytic microgastropods (poster presentation). *The 9th Asian Pacific Phycological Forum, Sapporo 2024*.

Liu, Y., Abe, T., Nakano, K., *et al.* Temporal variations in epiphytic gastropod diversity on two predominant macroalgae (oral presentation). *SCESAP Biodiversity Symposium, Kaohsiung 2023*.

Liu, Y., Yang, Y., Liu, D., et al. Ecophysiological responses of *Saccharina japonica* under synergistic stress of ocean acidification, warming, and eutrophication (oral presentation in Chinese). *The 6th National Innovation Symposium of Plant Production, Hebei 2019*.

AWARDS

Grant
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WORK & VOLUNTEER

2021- 11 – present	Freelance Content Writer Write brief reports on the latest pu	Molecular Plant, Cell Press blished articles in plant science
	Write brief reports on the latest published articles in plant science	
2023 - 09	The 2023 Autumn Meetings of the Japanese Society of Fisheries Science	
2018 - 06	Shanghai Cooperation Organization Qingdao Summit	
2018 - 01	APEC Training Workshop on Marine Sustainable Fisheries Development	