

Wan-Chien (Victoria) Hsiao

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Education

PhD candidate in Biology, University of Leeds, U.K. Advisor: Maria Beger, Ph.D., Rob Salguero-Gomez, Ph.D., James D Reimer, Ph.D. <i>Thesis title : Latitudinal variation in functional and demographic traits of coral populations</i>	Oct 2021 – Present Leeds, U.K.
M.Sc. Marine Biology and Fisheries, Institute of Oceanography NTU Advisor: Vianney Denis, Ph.D. <i>Thesis title : Environmental factors determining benthic communities in northern Taiwan</i>	Jul 2018 – 2020 Taipei, Taiwan
B.Sc. in Marine Biotechnology and resources NSYSU (Taiwan)	Sep 2014 – Jun 2018 Kaohsiung, Taiwan
B. Sc (Exchange student) Department of Biology UH Manoa	Aug 2016 – Dec 2016 Hawaii, U.S.A

Awards & Funding

Ministry of Education, Taiwan Ph.D. Fellowship equiv. 140K USD	Awarded in 2019
National Taiwan University, TW Research Grant equiv. 1,600 USD	Jul 2018 – Jun 2020
College of Science, National Taiwan University Dean's award	July 2020
NSYSU, Taiwan Student Research Grant equiv. 1,500 USD <i>Optimization of Culture Condition for Carotenoid Production and Other High-Value Products in Heterotrophic Algae</i>	Jul 2017 – Jun 2018
College of Science, NSYSU Academic excellence award	2017-2018
College of Science, NSYSU Academic excellence award	2016-2017

Research experiences

Benthic ecology, Environmental science Functional ecology reef Lab NTU Advisor :Ph.D. Vianney Denis	Jul 2018 – Jun 2020 Taipei, Taiwan
Molecular Biology Marine molecular and ecology Lab NSYSU (Taiwan) Advisor :Ph.D. Hsiu-Chin Lin	Feb 2016 – Jun 2018 Kaohsiung, Taiwan
Climate change, Marine ecology Zooplankton Ecology Lab NMMBA Advisor :Ph.D. Hung-Yen Hsieh	Jul 2017 – Sep 2017 Pintung, Taiwan

Publications & Presentations

- 3 publication in scientific journals (One as 1st Author and two as Co-authors)
Hsiao, W. V., Lin, Y. V., Lin, H. T., & Denis, V. (2021). Learning from differences: Abiotic determinism of benthic communities in Northern Taiwan. *Marine Environmental Research*, 170, 105361.
Lin, T. C., **Hsiao, W. V.**, Han, S. J., Joung, S. J., & Shiao, J. C. (2021). A direct multiplex loop-mediated isothermal amplification method to detect three CITES-listed shark species.

Aquatic Conservation: Marine and Freshwater Ecosystems.

Denis, V., Fan, T. Y., **Hsiao, W. V.**, Hwang, S. J., Lin, Y. V., & Nozawa, Y. (2020). Idea Paper: Tracking the distribution of accretive reef communities across the Kuroshio region. *Ecological Research*, 35(4), 595-598.

- **2** publication in preparation
- **1** thesis dissertation
- **1** oral presentation
 - 2020 Taiwanese Coral reef society (**Won excellent oral presentation**)
- **1** poster acceptance in ICRS
- **3** poster presentations
 - 2019 Taiwanese Coral reef society
 - 2019 Oceanography annual meeting and Marine science symposium
 - 2019 Fourth Asian Biology symposium

Membership

International Coral Reef Society, British Ecological Society

Relevant work & Voluntary experience

Research assistant | IONTU Aug 2020-Oct 2021

Lab: Fish physiology and ecology lab , Functional reef ecology lab

*Project: 1) The contribution of different spawning and feeding grounds to the spawning population of *Thunnus orientalis* in the Northwest Pacific.*

2) Assessment of marine protected area and the ecological service value in critical marine ecosystems of Taiwan waters

Volunteer | PAEPAE O HE'EIA FISH POND Nov 2016
Hawaii, U.S.A

Volunteer | IUCN Sep 2016
Hawaii, U.S.A
2016 IUCN World Conservation Congress, Hawaii

Student volunteer | Office of international affairs, NSYSU 2014
2014 International exchange student program Kaohsiung, Taiwan

Languages

Mandarin (Native), English (Fluent)

Qualifications & Skills

PADI Dive Master (200+)

NAUI underwater ecologist

Driving License

Computer softwares

- Experienced with R, Geneious, CPCe, Microsoft office, Coralnet
- Familiar with Inkscape, Photoshop, ACDsee

Lab skills

- Molecular biology (DNA extraction, PCR, sequence analysis)
- Marine chemical analysis (Nutrients, Carbon, Alkalinity analysis)