

Curriculum Vitae

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Daphne Z. Hoh

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Academic Background

Ph.D. Biodiversity 2016 - 2022

Academia Sinica & National Taiwan Normal University, Taiwan.

Thesis title: Genomic basis of pathogenicity in *Fusarium solani* species complex infecting sea turtles

B.Sc. Marine Science 2012 - 2015

Universiti Malaysia Terengganu, Malaysia.

Thesis title: Hatching success on relocated hawksbill turtle (*Eretmochelys imbricata*) nests in Padang Kemunting Turtle Hatchery, Melaka, and the implication of identified fungi

Current Research Interest

Biodiversity Informatics, Open Data, Sea Turtle Ecology

Professional Experience

Postdoctoral Researcher May 2022 - Current

Taiwan Biodiversity Information Facility, Biodiversity Research Centre, Academia Sinica, Taiwan.

Research Assistant Jan - June 2016

Institute of Biological Sciences, University of Malaya

On-going Research

- **Status of open biodiversity data in Taiwan:** Determine gaps in open biodiversity data in Taiwan and literature review on open data applications
- **Sea turtle photo-ID:** Co-founder of “TurtleSpot Taiwan”, a citizen science initiative that collects sighting records of sea turtle [<https://www.facebook.com/groups/turtlespotintw>]
- **Sea turtle scatology:** Population genetics of foraging sea turtles, eDNA, marine debris

Publications ([Google Scholar](#))

- Sun, P.F., Lu, M.R., Liu, Y.C., Shaw, B., Lin., C.P., ..., **Hoh, D.Z.**, ... & Tsai, I.J. (In Press). An acidophilic fungus is integral to prey digestion in a carnivorous plant. *Nature Microbiology*.

- Lin, C.P., Huang, C.H., Padgett, T., Bucay, M.A.C, Chen, C.W., Shen, Z.Y., ... & Hoh, D.Z. (2024). Environmental DNA-based biodiversity profiling along the Houdong River in north-eastern Taiwan. *Biodiversity Data Journal*, 12, e116921. <https://doi.org/10.3897/BDJ.12.e116921>
- Hu, C.H., Yu, H.Y., Hoh, D.Z., Lin, D.L. (2023). The observation records from whale and dolphin watching inshore of Hualien, eastern Taiwan. *Biodiversity Data Journal*, 11, e109649. <https://doi.org/10.3897/BDJ.11.e109649>
- Hoh, D.Z., Wu, J.Y., Lee, J.Y., Tuanmu, M.N. (2023). Accessing the current state of National Biodiversity Data Integration: An initiative by the Taiwan Biodiversity Information Facility (TBIA). *Biodiversity Information Science and Standards*, 7, e110660. <https://doi.org/10.3897/biss.7.110660>
- Hoh, D.Z., Lee, H.H., Wada, N., Liu, W.A., Lu, M.R., Lai, C.K., ... & Tsai, I.J. (2022). Comparative genomics and transcriptomic analyses of trans-kingdom pathogen *Fusarium solani* species complex reveal degrees of compartmentalisation. *BMC Biology*, 20, 236. <https://doi.org/10.1186/s12915-022-01436-7>
- Hoh, D.Z., Liu, M.J.Y, Tuanmu, M.N. (2022). Taiwan Biodiversity Information Facility (TaiBIF)'s Role in Facilitating Open Biodiversity Data in Taiwan. *Biodiversity Information Science and Standards*, 6, e93628. <https://doi.org/10.3897/biss.6.93628>
- Hoh, D.Z., Fong, C.L., Su, H., Chen, P., Tseng, K.W.H., Liu, M.J.Y. (2022). A dataset of sea turtle occurrences around the Taiwan coast. *Biodiversity Data Journal*, 10, e90196. <https://doi.org/10.3897/BDJ.10.e90196>
- Chen, Y.H., Chen, H.J., Yang, C.Y., Shiu, J.H., Hoh, D.Z., Chiang, P.W., ... & Tang, S.L. (2021). Prevalence, complete genome and metabolic potentials of a phylogenetically novel cyanobacterial symbiont in the coral-killing sponge, *Terpios hoshinota*. *Environmental microbiology*, 24(3), 1308-1325.
- Hoh, D.Z., Lin, Y.F., Liu, W.A., Sidique, S.N.M., & Tsai, I.J. (2020). Nest microbiota and pathogen abundance in sea turtle hatcheries. *Fungal Ecology*, 47, 100964. <https://doi.org/10.1016/j.funeco.2020.100964>
- Yussof, W., Shaharudin, N., Hitam, M.S., Awalludin, E.A., Rusli, M.U., & Hoh, D.Z. (2020). Photo Identification of Sea Turtles Using AlexNet and Multi-Class SVM. 19th International Conference on New Trends in Intelligent Software Methodologies, Tools and Techniques. Virtual. Japan. September 2020. (Conference paper, pp. 23-31).

Selected Presentations (*presenting author)

- ***Daphne Z Hoh**, Wu, J.Y., Lee, J.Y., Tuanmu, M.N. Accessing the current state of National Biodiversity Data Integration: An initiative by the Taiwan Biodiversity Information Facility (TBIA). The Biodiversity Information Standards (TDWG) Conference. Hobart, Australia. Oct 2023. (Oral presentation)
- ***Daphne Z Hoh**, Melissa JY Liu, Mao-Ning Tuanmu. Taiwan Biodiversity Information Facility (TaiBIF)'s Role in Facilitating Open Biodiversity Data in Taiwan. The Biodiversity Information Standards (TDWG). Sofia, Bulgaria. Oct 2022. (Virtual oral presentation)
- *Chia-Ling Fong, **Daphne Z Hoh**, Huai Su, Peng-Yu Chen, Hao-Chih Huang, Chia-Chen Tsai, Yoko Nozawa. Citizen scientists reveal the distribution, abundance, and main threats to the

foraging sea turtles in Taiwan. 40th International Sea Turtle Symposium. Perth, Australia. March 2022. (Virtual oral presentation)

***Daphne Z. Hoh**, Yu-Fei Lin, Wei-An Liu, Siti Nordahliawate Mohd. Sidique, Isheng J. Tsai. The implication of hatchery practices and microbial diversity in *Fusarium*-infected sea turtle nests. Gordon Research Seminar/Conference – Marine Molecular Ecology. Hong Kong University Science and Technology. Hong Kong. July 13 – 19, 2019. (Poster presentation)

***Daphne Z. Hoh**, Huei-Mien Ke, Pei-Feng Sun, Isheng J. Tsai. Comparative genomics of *Fusarium solani* species complex associated with animals. International Symposium on Evolutionary Genomics and Bioinformatics 2018. Taipei, Taiwan. Oct 20-21, 2018. (Poster presentation)

*Chialing Fong, Huai Su, Pengyu Chen, **Daphne Z. Hoh**, Macro Chang. TurtleSpot Taiwan: New interactions, new records and the emerging power of divers. 38th Annual Symposium on Sea Turtle Biology & Conservation. Kobe, Japan. Feb 18-23, 2018 (Poster presentation)

Daphne Z. Hoh, *Muhammad Hafiz bin Borkhanuddin, Kesaven Bhubalan. Hatching success on relocated Hawksbill turtle (*Eretmochelys imbricata*) nests in Padang Kemunting Turtle Hatchery, Malacca, and the implication of identified fungi. The International Seminar on the Straits of Malacca and the South China Sea. Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu, Malaysia. Nov 1-2, 2015. (Oral presentation)

Academic and Professional Award

TIGP Biodiversity Program Retreat, Oral presentation award – 1 st place	2020
TIGP Biodiversity Program Retreat, Poster presentation award – 2 nd place	2019
Dean Award of Academic Excellence, Universiti Malaysia Terengganu	2012 - 2015

Scholarship/Fellowship

Academia Sinica Young Researcher Travel Grant	2023
Taiwan International Graduate Program (TIGP-AS), Research Progress Fellowship	2020
Academia Sinica Young Researcher Travel Grant	2019
TIGP, Academia Sinica. Ph.D. Scholarship	2016
TIGP, Academia Sinica. Scholarship Internship	2016

Professional Qualification

Malaysia Data Stewardship for Open Science	2021
PADI Dive Master	2015
St. John Ambulance Malaysia First Aider	2005 – 2016

Related Volunteer Works

Field Sampling Assistant

Coral Reef Research 2015

Redang & Bidong Island, Malaysia

Data Collector	2014
Reef Clean Up Programme by Department of Marine Park Malaysia Marine Park, Redang Island, Malaysia	
	2014
Data Collector & Volunteer	
Hatching Analysis by WWF Malaysia Padang Kemunting Turtle Hatchery, Malacca, Malaysia	
Volunteer	2013
“World Sea Turtle Day” Turtle Awareness Programme by Sea Turtle Research Unit (SEATRU), Universiti Malaysia Terengganu & Laguna Redang Beach Resort, Redang Island, Malaysia	