

Curriculum Vitae

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何芷蔚 **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 June 2025 – current

School of Ecological and Environmental Sciences,
East China Normal University, Shanghai, China.

Postdoctoral Researcher May 2022 – Dec 2024

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

Co-founder & Researcher June 2017 – current

TurtleSpot Taiwan

Research Assistant Jan - June 2016

Institute of Biological Sciences, University of Malaya

Publications ([Google Scholar](#))

1. Li, J.X., **Hoh, D.Z.**, Nie, D.Y., Chen, M. (2026). Sea Turtles Bycatch Patterns in Small-Scale Fisheries of China's Eastern and Southern Seas. *In submission*.
2. Li, J.X., **Hoh, D.Z.**, Nie, D.Y., Chen, J.T., Chen, M. (2026). Building on Fisher Capacities in Sea Turtle Bycatch Rescue: Perceptions, Practices, and a Citizen Observatory Framework for China's Small-Scale Fisheries. *In submission*.

3. Fong, C.L., **Hoh, D.Z.**, Su, H., Chen, P.Y., Tsai, C.C., Tseng, K.W.H., ... & Chan, B.K.K. (2025). Crowdsourcing conservation: unveiling Taiwan's sea turtle foraging grounds, emerging threats, and residency with broad societal engagement. *BMC Ecology and Evolution*, Vol 25, 27. <https://doi.org/10.1186/s12862-025-02354-2>
4. Liu, M.J.L., Jhang, J.J., **Hoh, D.Z.**, Chang, C.I., Tuanmu, M.N. (2024). Supporting Biodiversity Dataset Preparation: An Introduction to the TaiBIF Open Data Toolkit. *Biodiversity Information Science and Standards*, 9: e147432. <https://doi.org/10.3897/biss.9.147432>
5. Sun, P.F., Lu, M.R., Liu, Y.C., Shaw, B., Lin., C.P., ..., **Hoh, D.Z.**, ... & Tsai, I.J. (2024). An acidophilic fungus promotes prey digestion in a carnivorous plant. *Nature Microbiology*, 9 (10), 2522-2537. <https://doi.org/10.1038/s41564-024-01766-y>
6. **Hoh, D.Z.**, Wu, J.Y., Tuanmu, M.N. (2024). Utilizing a Dashboard for Efficient Biodiversity Data Overview and Gap-Filling Effort. *Biodiversity Information Science and Standards*, 8, e135531. <https://doi.org/10.3897/biss.8.135531>
7. 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>
8. 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>
9. **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>
10. **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>
11. **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>
12. **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>
13. 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.
14. **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>

15. 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 only)

- D.Z. Hoh**, H. Su, C.L. Fong, Y.J. Wang, C.T. Tsai, P.Y. Chen. TurtleSpot Taiwan: Empowering Citizen Science to Uncover Taiwan's Sea Turtle Foraging Grounds. International Cetacean & Sea Turtle Summit. Hong Kong. Oct 2025. (Oral presentation)
- D.Z. Hoh**, N. Yen, Wang, M.C., Lee, Y.C., Fong, C.L., Su, H. A preliminary evaluation of the scatological approach to understand Taiwan's sea turtle population structure and anthropogenic influence. Asia Regional Meeting and Workshop on Sea Turtle Conservation. Kaohsiung, Taiwan. Sept 2025. (Oral presentation)
- D.Z. Hoh**, H. Su, C.L. Fong, Y.J. Wang, C.T. Tsai, P.Y. Chen. Empowering Citizen Science: Uniting Efforts to Understand Sea Turtle Population in Taiwan. The Xiamen Symposium on Marine Environmental Sciences (XMAS). Xiamen, China. Jan 2025. (Oral presentation)
- D.Z. Hoh**, Wu, J.Y., Tuanmu, M.N. Utilizing a Dashboard for Efficient Biodiversity Data Overview and Gap-Filling Effort. The Biodiversity Information Standards (TDWG) Conference. Okinawa, Japan. Sept 2024. (Oral presentation)
- D.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)
- D.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)
- D.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)
- D.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)

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

East China Normal University, Shanghai, China, Postdoctoral Fellowship	2025
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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

PADI Dive Master	2015
St. John Ambulance Malaysia First Aider	2005 – 2016