





CHIA-LING FONG 馮加伶 CURRICULUM VITAE

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 Biodiversity Research Center, Academia Sinica,
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EDUCATION

- 2019 - present **PhD candidate**
Taiwan International Graduate Program, Biodiversity program, Academia Sinica
National Taiwan Normal University, Taipei, Taiwan
Population ecology of foraging green turtles in Taiwan
Interested topics:
citizen science, sea turtle foraging ecology, wildlife photo identification, habitat fidelity, marine conservation
- 2006 - 2009 **MSc in Marine Biology**
National Taiwan Ocean University, Keelung, Taiwan
Master's thesis: Plasma biochemistry of wild and captive sea turtles in Taiwan.
- 2002 - 2006 **BA in Aquaculture**
National Taiwan Ocean University, Keelung, Taiwan

RESEARCH EXPERIENCE

- 2016 - 2019 **Research Assistant to**
Dr. Yoko Nozawa at Biodiversity Research Center, Academia Sinica
 - Responsible for creating the "Field Guide to the Corals of Lyudao" (Green Island)
 - Help conduct research on coral spawning, coral sex change and the interaction among coral-algae-sea urchin
 - Assist in data collection in the field, data analysis and histological examination in the lab and administrative affairs
- 2013 - 2016 **Research Assistant to**
Dr. Sen-Lin Tang at Biodiversity Research Center, Academia Sinica
 - Conducted research on coral-associated bacteria
 - Established the method of inoculate on *Aiptasia pulchella* to examine the tendency of bacteria to function as probiotics under the stress conditions for their Cnidarian host (DNA and RNA expression experiments)
- 2010 - 2012 **Research Assistant to**
Dr. I-Jiunn Cheng at National Taiwan Ocean University
 - Established and manage the stranded sea turtles reporting network
 - Developed the healthy assessment procedures for both captive and wild sea turtles
 - Assisted in the survey of nesting turtles at several beaches around Taiwan
 - Organized the training workshops for local residents and volunteers

SKILLS

Project Management and Leadership

- President of Association of TurtleSpot Taiwan, official NGO/NPO.
- Co-founder of TurtleSpot Taiwan, a citizen science project that uses social media to collect the sea turtle sightings and exchange information on sea turtles.
- Our website: <https://turtlespottw.org/>

Research communication skills

- Licensed environmental education lecturer
- +20 public talks per year: invited speakers for DRT show (the largest gathering event of divers and marine conservationists), schools, government training courses and private organizations
- Published popular science articles on the websites of National Geographic (Taiwan) and Taiwan Environmental Information Center (the largest environmental-related website in Taiwan)

Professional and technical skills

- Field ecology skill for nesting and in-water sea turtle study
- Certificated Advance scuba diver (AOW, +500 dives) and underwater photography
- Basic laboratory techniques in molecular biology
- Clinical chemistry and hematology in veterinary medicine
- Histology and basic techniques in biological electron microscopy
- Basic R
- Fluent in written and spoken Mandarin and English

PUBLICATIONS

Journal and Review papers

Hoh DZ, [Fong C-L](#), Su H, Chen P, Tsai C-C, Tseng KWH, Liu MJY (2022) A dataset of sea turtle occurrences around the Taiwan coast. ARPHA Preprints. <https://doi.org/10.3897/arphapreprints.e90210> (submitted)

De Vivo, M., Lee, H. H., Huang, Y. S., Dreyer, N., [Fong, C. L.](#), de Mattos, F. M. G., Jain, D., Wen, Y. H. V., Mwihiaki, J. K., Wang, T. Y., Machida, R. J., Wang, J., Chan, B. K. K., & Tsai, I. J. (2022, June 15). Utilisation of Oxford Nanopore sequencing to generate six complete gastropod mitochondrial genomes as part of a biodiversity curriculum. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-14121-0>

Shiu, J. H., Lin, C. H., Mulla, A. J., Dang, V. D. H., [Fong, C. L.](#), & Nozawa, Y. (2022). Bacterial Communities in Coral Offspring Vary Between in situ and ex situ Spawning Environments. *Frontiers in Marine Science*, 9. <https://doi.org/10.3389/fmars.2022.796514>

Dang, V. D. H., Cheung, P. Y., [Fong, C. L.](#), Mulla, A. J., Shiu, J. H., Lin, C. H., & Nozawa, Y. (2020). Sea Urchins Play an Increasingly Important Role for Coral Resilience Across Reefs in Taiwan. *Frontiers in Marine Science*, 7. <https://doi.org/10.3389/fmars.2020.581945>

Dang, V. D. H., [Fong, C. L.](#), Shiu, J. H., & Nozawa, Y. (2020). Grazing effects of sea urchin *Diadema savignyi* on algal abundance and coral recruitment processes. *Scientific Reports*, 10 (1). <https://doi.org/10.1038/s41598-020-77494-0>

Shiu, J. H., Yu, S. P., [Fong, C. L.](#), Ding, J. Y., Tan, C. J., Fan, T. Y., Lu, C. Y., & Tang, S. L. (2020). Shifting in the Dominant Bacterial Group Endozoicomonas Is Independent of the Dissociation With Coral Symbiont Algae. *Frontiers in Microbiology*, 11. <https://doi.org/10.3389/fmicb.2020.01791>

Tsung-Hsien Li, [Chia-Ling Fong](#), Chao-chin Chang, I-Jiunn Cheng (2012) Hematology and plasma chemistry profile of a stranded green turtle (*Chelonia mydas*) from diseased to rehabilitated status in Taiwan. *Platax* 9: 67-75.

[Chia-Ling Fong](#), Ho-chang Chen, I-Jiunn Cheng (2010) Blood profiles from wild populations of green sea turtles in Taiwan. *Journal of Veterinary Medicine and Animal Health*, 2(2): 8-10.

I-Jiunn Cheng, Cheng-Ting Huang, Po-Yen Hung, Bo-Zong Ke, Chao-Wei Kuo, [Chia-Ling Fong](#) (2009) A ten year monitoring of the nesting ecology of the green turtle, *Chelonia mydas*, on Lanyu Island, Taiwan. *Zoological Studies*, 48(1): 83-94

Open Data

Hoh D, Fong C (2022). Sea turtle sightings in Taiwan | 台灣海龜目擊紀錄. Version 1.8. TurtleSpot Taiwan 海龜點點名. Occurrence dataset <https://doi.org/10.15468/43z4mj>

Conference papers (international)

Chia-ling Fong, Daphne Z. Hoh, Huai Su, Peng-yu Chen, Hao-Chih Huang, Chia-Chen Tsai and 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, Online, Mar 2022. [Oral presentation]

Chia-ling Fong, Daphne Z. Hoh, Huai Su, Peng-yu Chen. The case studies of injured sea turtles in their foraging habitats via citizen science photographic identification. China Sea Turtle Conservation Alliance Annual Meeting, Penglai, Shandong, China. May 2019. [Oral presentation]

Chia-ling Fong, Huai Su, Peng-yu Chen, Marco Chang and Daphne Z. Hoh. TurtleSpot Taiwan: citizen science for an open sea turtle database. 4th Asia-Pacific Coral Reef symposium, Cebu, Philippines, June 2018. [Oral presentation]

Chia-ling Fong, Jiaho Shiu, Yoko Nozawa, Takuma Mezaki, Hironobu Fukami. The Coral Book Project: a user-friendly guide to coral taxonomic in Southeast Asia. 4th Asia-Pacific Coral Reef symposium, Cebu, Philippines, June 2018. [Poster presentation]

Chia-ling Fong, Huai Su, Peng-yu Chen, Daphne Z. Hoh and Marco Chang. TurtleSpot Taiwan: New interaction, new records and the emerging power of divers. 38th International sea turtle symposium, Kobe, Japan, Feb 2018. [Poster presentation]

Chia-Ling Fong, Shan-Hua Yang and Sen-Lin Tang. A studying proposal: The influence of plastic nanoparticles to *Aiptasia pulchella*. 3rd Asia-Pacific Coral Reef symposium, Kenting, Taiwan, June 2014. [Poster presentation]

Chia-Ling Fong, Fu Kuo, Jin-Feng Huang, Chung-Kang Hus, Wan-She Tsai, and I-Jiunn Cheng. Comparisons of plasma biochemistries of nesting and captive green turtles with the baseline data in Taiwan. 31st International sea turtle symposium, San Diego, US, April 2011. [Poster presentation]

Chia-Ling Fong and I-Jiunn Cheng. Plasma biochemistry values of free-ranging and captive green turtles in Taiwan. 30th International sea turtle symposium, Goa, India, April 2010. [Oral presentation]

HONORS & AWARDS

2022	Archie Carr Student award of Conservation oral presentation at 40 th International Sea Turtle Symposium
2020	1st award of poster presentation on TIGP Biodiversity annual retreat
2018	1st award of oral presentation on 29 th Congress of Animal Behavior and Ecology (Taiwan)
2012	Outstanding Student Award by National Taiwan Ocean University
2010	Taiwan Government Scholarship for Short-term Oversea Study
2009	1st award of oral presentation on 20 th Congress of Animal Behavior and Ecology (Taiwan)

INTERSHIPS & TRAINING

2014 Oct-Nov	USGS, Wildlife Health Center, Honolulu Field Station (Hawaii, USA) <i>Dr. Thierry M. Work, DVM</i> <ul style="list-style-type: none"> Continued work on the project “Developing biomarker-based tools for diagnosis the health condition of sea turtles” with RNA samples and designed the primers for TNF-alpha (tumor related gene)
2012 Jul-Sep	National Museum of Marine Biology & Aquarium (Ping-tung, Taiwan) <i>Dr. Cheng-Hao Tang</i> <ul style="list-style-type: none"> Received training in molecular biology techniques Continued work on the project “Developing biomarker-based tools for diagnosis the health condition of sea turtles” and identified the possible related genes by cloning

- 2011 Nov-Dec **USGS, Wildlife Health Center, Honolulu Field Station (Hawaii, USA)**
Dr. Thierry M. Work, DVM
- Received intensive training on sea turtle necropsy
 - Initiated the research project “Developing biomarker-based tools for diagnosis the health condition of sea turtles” and conducted preliminary experiments
- 2008 Jan-Feb **Department of Veterinary Medicine, National Pingtung University of Science and Technology (Ping-tung, Taiwan)**
2007 Jan-Feb *Dr. Suen-Chiuan Lin, DVM*
- Received intensive training on clinical chemistry and hematology in veterinary medicine, especially on reptiles and avian species
- 2006 Jun-Jul **Penghu Marine Biology Research Center (Penghu, Taiwan)**
Dr. Chung Kang Hsu
- Received training in sea turtles rescue and habilitation