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**POSITIONS**

- 06/2019 to date Associate Professor, Institute of Marine Biology National Taiwan Ocean University.  
02/2015-06/2019 Assistant Professor, Institute of Marine Biology National Taiwan Ocean University.  
07/2013-02/2015 Post-doctoral research fellow, Electrophysiology Lab., Marine Research Station, Academia Sinica.  
12/2012-07/2013 Post-doctoral research fellow, Institute of Marine Biology, National Taiwan Ocean University.

**EDUCATION**

- 09/2008-11/2012 Department of Zoology, Stockholm University, Sweden  
PhD degree.  
09/2001-06/2003 Institute of Marine Biology, National Sun Yat-sen University, Taiwan  
Masters degree  
09/1997-06/2001 Department of Zoology, National Chung Hsing University, Taiwan  
B.Sc. degree

**PUBLICATIONS (SCI within 5 years) (\* corresponding author)**

1. Amelia, T. S. M., Khalik, W. M. A. W. M., Ong, M. C., **Shao, Y. T.**, Pan, H. J., & Bhubalan, K. (2021). Marine microplastics as vectors of major ocean pollutants and its hazards to the marine ecosystem and humans. *Progress in Earth and Planetary Science*, 8(1), 1-26.
2. Chang, C. H., Wang, Y. C., **Shao, Y. T.**, & Liu, S. H. (2020). Phylogenetic analysis and ontogenetic changes in the cone opsins of the western mosquitofish (*Gambusia affinis*). *PLoS One*, 15(10), e0240313.
3. **Shao, Y. T.\***, Roufidou, C., Chung, P. C. and Borg, B (2019) Changes in kisspeptin, GnRH, and gonadotropin mRNA levels in male threespine stickleback (*Gasterosteus aculeatus*) during photoperiod-induced sexual maturation. *Evolutionary Ecology Research* 20: 1-13.
4. **Shao, Y. T.**, Chuang, S .Y., Chang H. Y., Tseng Y. C. and Shao, K. T.\* (2018) Largescale mullet (*Planiliza macrolepis*) can recover from thermal pollution-induced malformations. *PLoS One* 13(11): e0208005.
5. Chang, H. Y., Lin, T. H., Anraku, K. and **Shao Y. T.\*** (2018) The effects of continuous acoustic stress on ROS levels and antioxidant-related gene expression in the black porgy (*Acanthopagrus schlegelii*). *Zoological Study* 57(59): 1-14.
6. Wei, C. A., Lin, T. H., Chen, R. D., Tseng, Y. C. and **Shao, Y. T.\*** (2018). The effects of continuousl acoustical stress on cortisol in milkfish (*Chanos chanos*). *General and Comparative Endocrinology* 257, 227-234.

7. Roufidou, C., Schmitz, M., Mayer, I., Sebire, M., Katsiadaki, I., **Shao, Y. T.** and Borg, B.\* (2018). Hormonal changes over the spawning cycle in the female three-spined stickleback, *Gasterosteus aculeatus*. *General and Comparative Endocrinology* 257, 97-105.
8. Chan, B. K., Shao, K. T., **Shao, Y. T.** and Chang, Y. W. (2016). A simplified, economical, and robust light trap for capturing benthic and pelagic zooplankton. *Journal of Experimental Marine Biology and Ecology*, 482, 25-32.
9. Hu, M. Y., Guh, Y. J., **Shao, Y. T.**, Kuan, P. L., Chen, G. L., Lee, J. R., ... and Tseng, Y. C.\* (2016). Strong ion regulatory abilities enable the crab *Xenograpsus testudinatus* to inhabit highly acidified marine vent systems. *Frontiers in physiology*, 7.
10. Roufidou, C., Sebire, M., Katsiadaki, I., Mustafa, A., Schmitz, M., Mayer, I., **Shao Y. T.** and Borg, B\*. (2016). Overripening of eggs and changes in reproductive hormones in the threespine stickleback, *Gasterosteus aculeatus*. *Evolutionary Ecology Research*, 17(4), 583-601.
11. Chang, C. H., **Shao, Y. T.**, Fu, W. C., Anraku, K., Lin, Y. S. and Yan, H. Y\*. (2015). Differentiation of visual spectra and nuptial colorations of two *Paratanakia himantegus* subspecies (Cyprinoidea: Acheilognathidae) in response to the distinct photic conditions of their habitats. *Zoological Studies*, 54(1), 1.
12. **Shao, Y. T.**, Tseng, Y. C.\*, Yan, H.Y., Hwang P. P. and Borg, B. (2015) GnRHs expression mRNA levels in the brain of male three-spined stickleback, *Gasterosteus aculeatus*, and the effects of photoperiod and reproductive condition on its expression levels. *Comparative Biochemistry and Physiology A* 180: 6-17.
13. **Shao, Y. T.**, Chang, F. U., Fu, W. C. and Yan, H. Y.\* (2014) Acidified seawater suppresses insulin-like growth factor I mRNA expressions and reduces growth rate of juvenile orange-spotted groupers (*Epinephelus coioides*). *Aquaculture Research* 2014 1-11 (doi:10.1111/are12533).
14. Chen, I. S.\*, Wen, Z. H., **Shao, Y. T.** and Liao, C. R. (2014) The complete mitochondrial genome of Hainan gudgeon *Sarcocheilichthys hainanensis* Nichols & Pope (Cypriniformes: Cyprinidae). *Mitochondrial DNA*, (doi: 10.3109/19401736.2013.863295).
15. Chen, I. S.\*, Liao, C. R. and **Shao, Y. T.** (2014) The complete mitochondrial genome of Hainanese barbel steed *Hemibarbus medius* Yue (Teleostei: Cyprinidae). *Mitochondrial DNA*, 26(5), 736-738.
16. **Shao, Y. T.**, Chen, I. S. and Yan, H. Y.\* (2014) The auditory roles of the gas bladder and suprabranchial chamber in walking catfish (*Clarias batrachus*). *Zoological Studies*, 53: 1. (doi:10.1186/1810-522X-53-1).
17. **Shao, Y. T.**, Wang, F. U., Fu, W. C., Yan, H. Y.\*, Chen, I. S. and Borg, B.\* (2014) Androgens increase *lws* opsin expression and red sensitivity in male three-spined sticklebacks. *PLoS ONE* 9(6): e100330. (doi:10.1371/journal.pone.0100330).

#### **POSTGRADUATE SUPERVISION (as main supervisor)**

Wei, C. A. Doctoral thesis. "Comparison of Multiple Acid Compounds Impacts on the Ontogenesis of Purple Sea Urchin (*Anthocardia crassispina*)" 2015/09 –

Chen, H. Y. Master thesis. "The effects of continuous acoustic stress on ROS levels and antioxidant-related gene

expression in the black porgy (*Acanthopagrus schlegelii*)." 2016/09 – 2018/08

Chung, P. C. Master thesis. "The physiological effects of polyethylene microbeads ingestion in juvenile orange-spotted grouper (*Epinephelus coioides*)." 2016/09 – 2018/08

Lee, L. C. Master thesis. "An optical motor experiment: changes in red sensitivity of stickleback (*Gasterosteus aculeatus*) females over the spawning cycle." 2017/09 –

Lee, C. C. Master thesis. "The assemblages of fish larvae that collected by different wavelengths of light trap." 2017/09 – 2020/07

Hwang, C. H. Master thesis. "The possible effects of ocean acidification on the calcium transportation and skeleton calcification of orange-spotted grouper (*Epinephelus coioides*) larvae." 2018/09 –

Chen, H. Y. Master thesis. "Temporal Changes in Opisthobranchia Assemblage in the Keelung Chaojing Marine conservation area and the northeast of Taiwan." 2020/07 –