漁業資源評估研究室

Fishery Stock Assessment Laboratory

Dr. Wen-Pei Tsai

Wen-Pei (Michael) Tsai

Experience

2022－Current, Professor, Department of Fisheries Production and Management, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan.

2018－2022 Associate Professor, Department of Fisheries Production and Management, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan.

2017－2018 Assistant Professor, Department of Fisheries Production and Management, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan.

2014－2017 Assistant Professor, Department of Fisheries Production and Management, National Kaohsiung Marine University, Kaohsiung, Taiwan.

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Education

2007－2013 PhD, Division of Marine Biology & Fisheries, Institute of Oceanography, National Taiwan University (NTU), Taipei, Taiwan.
2011－2013 Visiting International Student, School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA, USA. Advisors: Prof. Andre´ E. Punt
2002－2004 M.S., Department of Environmental Biology & Fisheries Sciences, National Taiwan Ocean University (NTOU), Keelung, Taiwan.
1998－2002 B.S., Department of Environmental Biology & Fisheries Sciences, National Taiwan Ocean University (NTOU), Keelung, Taiwan.

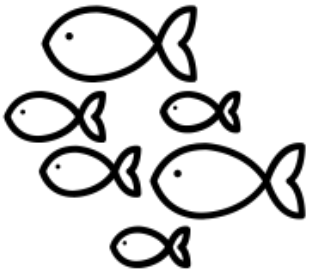
Study interest

Biology of Sharks, Statistics, Stock assessment, Modelling

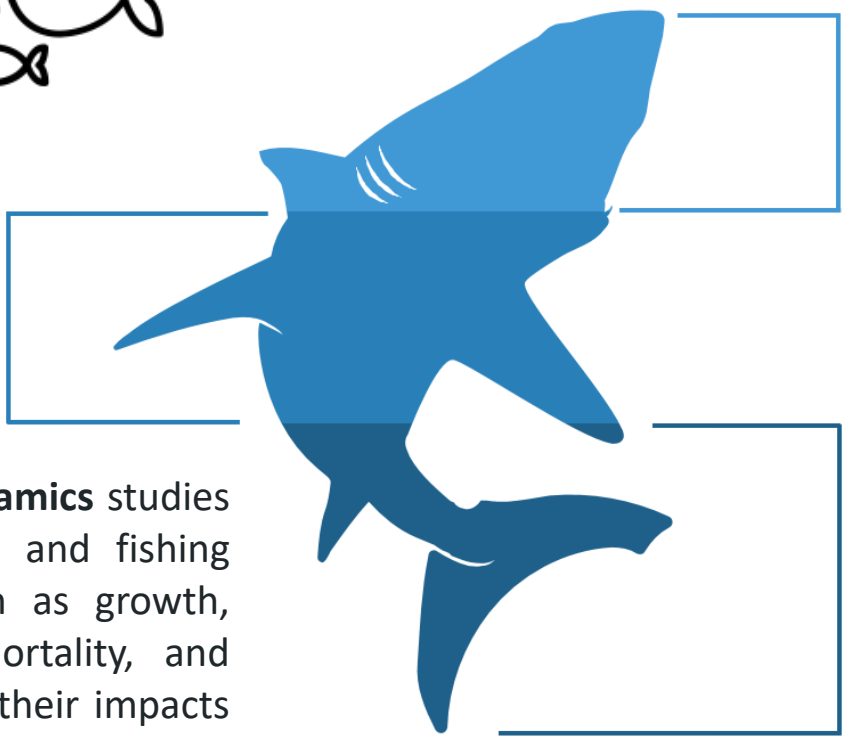
Skills

Computer Software: R, Microsoft Visual Basic for Application, AD Model Builder

- Our lab focuses on several topics around fishery biology, population dynamics, and stock assessment. Shark fisheries, biology, management, and conservation are the current major research topics.



Fisheries biology focuses on the study of age and growth, reproductive biology (maturity and fecundity) and feeding ecology.

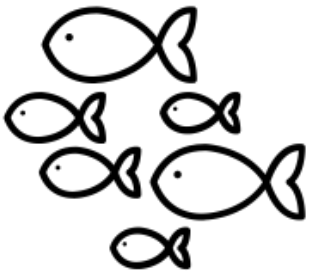


Population dynamics studies key life history and fishing processes, such as growth, recruitment, mortality, and selectivity, and their impacts on the abundance and structure of populations.

Stock assessment evaluates status of fisheries resources and provides fisheries managers with much of the information necessary to make optimal fisheries management.

Professor Wen-Pei Tsai, Department of Fisheries Production and Management

- 本實驗室之研究主要著重在漁業生物學、族群動態和資源評估相關主題。
- 目前鯊魚漁業、生物學、管理及保育為主要的研究方向。



漁業生物學側重於年齡和成長、生殖生物學（成熟度和繁殖力）和攝食生態學的研究。

魚類族群動態主要研究關鍵的生活史資訊和捕撈過程，例如成長、加入量、死亡率和漁具選擇性，以及它們對族群數量和結構的影響。

漁業資源評估研究主要進行漁業資源現況的評估並模擬和預測未來的變化情形，為漁業管理者提供制定和實施管理措施之科學依據。

Professor Wen-Pei Tsai, Department of Fisheries Production and Management