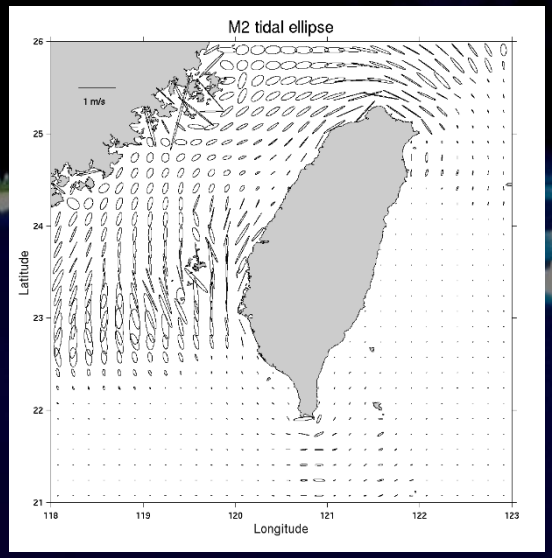
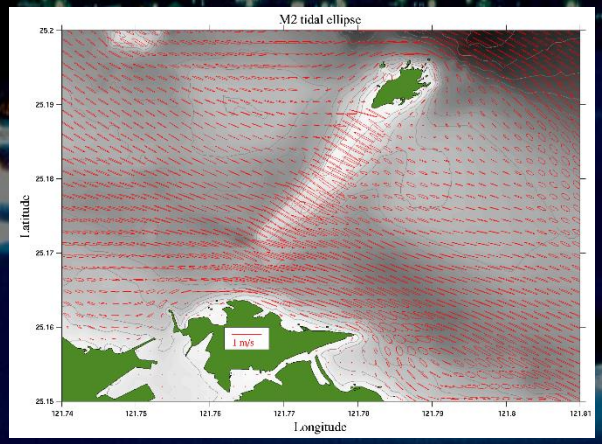
羅耀財　助理教授

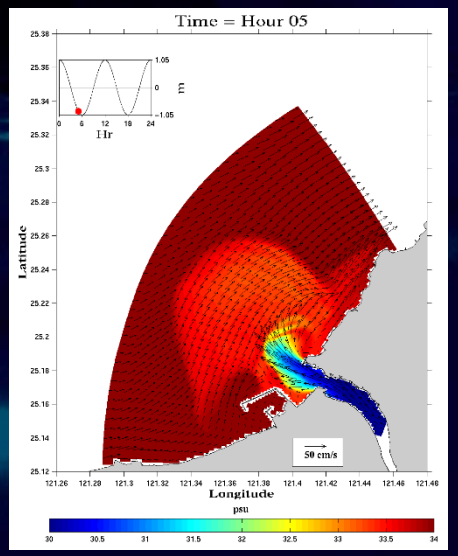
學　　歷：美國德州農工大學 海洋科學學系 理學博士
經　　歷：國立臺灣海洋大學 海洋環境資訊系 助理教授
研究領域：海洋數值模式、近岸海洋學、潮汐與潮流、颱風暴潮、河川水舌擴散、潮流發電潛能評估

研究內容：

- 利用水理模式，POM，模擬台灣附近海域潮汐與潮流的特性，以及颱風侵近台灣時所引起的風暴潮研究。
- 河川攜帶大量的淡水、陸源物質以及人類所排放的污水，注入大海後，對於附近海域溫度、鹽度、營養鹽都會造成影響，此低鹽度水分佈在近岸海域的現象稱為水舌。以模式模擬水舌的分佈與擴散情形。
- 近年來，各國研究者都在尋找自然能開發的可能性，台灣研究團隊提出基隆海檻附近海域潮流發電潛能評估。







Yao-Tsai Lo, Assistant Professor

Education:
- Department of Oceanography, Texas A&M University (Ph.D.)

Professional experience:
- Assistant Professor, Department of Marine Environmental Informatics, National Taiwan Ocean University

Expertise:

Ocean numerical model, Coastal Oceanography, Tides and Tidal Currents, Storm Surge, River Plume, Evaluate of Tidal Stream Power Generation

Research Interest：

- **Use a 3D hydrodynamic model, POM, to study tides and tidal currents off Taiwan, and to investigate the storm surge induced by typhoon.**
- **Since a vast amount of family sewage and industrial wastes brought onto the vicinity of river mouth through river discharge, it may significantly affect the estuarine environment and ecosystem in the coastal ocean. We use 3D model to simulate the formation and evolution of river plume.**
- **Nowadays, researchers try to find the possibility of exploitation of natural power. One of Taiwan Research Team proposed a test site for tidal stream power generation, the Keelung Sill.**