**Article:** [Mapping the value of commercial fishing and potential costs of offshore wind energy on the U.S: West Coast: Towards an assessment of resource use tradeoffs | PLOS One](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0315319)

**Summary:**

This paper creates spatial economic maps of both offshore wind energy (OWE) costs (measured by Levelized Cost of Energy, LCOE) and commercial fishing revenue for the entire U.S. West Coast, including Oregon. It quantifies overlap between valuable fishing grounds and areas suitable for floating wind farms. Then, it uses multi-objective optimization to find siting strategies that balance minimizing energy costs and minimizing impacts to fisheries.

**Methods:**  
- They used a 2.8 km x 2.8 km grid to map both Levelized Cost of Energy (LCOE) and Fishing Revenue across the ocean. Then for optimization, they aggregated it into ~300 km² blocks (about the size of a real wind farm).

- They analyzed which fishery species (dungeness crab, hake, sablefish) are most exposed to potential turbine development under different future energy goals (2030, 2045).