

## Daniel Taylor – Short CV

### ORCID

0000-0001-8023-0348

### Degrees

PhD Aquaculture and Marine Ecology, Technical University of Denmark, 2021

MS Physical Geography and Ecosystem Science, Lund University, 2011

BA Interdisciplinary (Biology), Old Dominion University, 2008

### Positions

2022-Present: Researcher, DTU Aqua, Section for Coastal Ecology

2024-2025: Senior Biologist, US Army Corps of Engineers, Seattle District

2020-2022: Postdoctoral Researcher, DTU Aqua, Section for Coastal Ecology

2017-2020: PhD Fellow, DTU Aqua, Section for Coastal Ecology

2014-2017: Aquaculture Research Associate, Virginia Tech, College of Agriculture and Life Sciences

2010-2014: Senior Research Specialist and Facility Manager, Virginia Tech, Southwest Virginia Aquaculture Research Center

2010: Assistant Engineer, DHI Group

### Research area

Environmental interactions related to shellfish production and biology, ecohydraulics, aquaculture production innovation, marine ecological engineering, biogeochemistry and benthic-pelagic coupling, water quality and chemistry dynamics, spatial statistics

### Publications

Type of publication:	Number
Web of Science publications:	19
Citations:	415
<i>h</i> -index:	10
Other peer review publications:	2
Books:	0
Book chapters:	1
Reports:	8

### International conferences (last 5 years)

Type of participation:	Number
Contributions as first author:	4
Invited:	7
Organizing role:	2

### Evaluation tasks and reviews (last 5 years)

- Associate Editor: Journal of the World Aquaculture Society
- Journal Reviews: Aquacultural Engineering; Aquaculture; Aquaculture Environmental Interactions; Aquaculture Research; Ecology and Evolution; Estuarine, Coastal and Shelf Science; Hydrobiologia; Journal of Biological Diversity; Marine Environmental Research; Marine Pollution Bulletin; New Zealand Journal of Marine and Freshwater Research; Spatial Statistics
- Columbia River System Operations Supplemental EIS

### Advisory tasks (last 5 years)

- Ministry of Food, Agriculture and Fisheries of Denmark: Værktøj til miljøvurdering af muslingeopdræt
- US Army Corps of Engineers Ecosystem Management and Restoration Research Program (EMRRP)
- Columbia River System Operations
- US Congressional Transportation and Infrastructure Committee – ESA Programmatic Feasibility Study

### Educational tasks at academical level (last 5 years)

- UDTU (University Teacher Training Programme at DTU): Supervision of student theses projects; Teaching Lab; Teaching Methods and Didactical Design
- DTU: Low Trophic Aquaculture (MSc course – 5 ECTS)
- MOOC: Sustainable Aquaculture for Low Trophic Species (2 modules)  
<https://open.uit.no/courses/coursev1:UiT+SALTS101+AquaVitae/>

### Supervision (ongoing or finished in the last 5 years)

	Principal/main supervisor	Co-supervisor
Other (MSc etc.)	0	1
PhD:	0	3
Postdoc:	0	0

### Grants (competitive) (ongoing or finished within last 5 years)

- KUMO – Cumulative Impacts of Mussel Farming. EHFAF. January 2024-December 2026. Grant amount €560,000
- BUMUS – Carrying Capacity and Sustainable Planning of Mussel Farming in the Limfjord. EHFAF. January 2024-December 2026. Grant amount €420,000
- FØGU – Development of Growout Technology for European Flat Oysters. January 2024-December 2026. Grant amount €400,000
- ULTFARMS - Circular Low Trophic Offshore Aquaculture in Wind Farms and Restoration of Marine Space – EU Horizon Europe. January 2023 – December 2025. Grant amount €9,590,773
- Wind energy and nature-based solutions integrated at sea (Win@Sea). Velux Foundation. Grant amount €1,340,000
- Best practices for the collection and processing of ship based underway flow-through optical data, University of Maine – NSF grant
- Marine Mitigation Measures – LTA environmental interactions – Macroalgae, eelgrass, mussel bed particle dynamics
- Feasibility of Offshore Wind Farm Areas as Multi-Use Platforms for Lower-Trophic Aquaculture. Atlantic States Marine Fishery Commission. Grant amount \$153,502
- Mussel Mitigation Feeds and Supply Systems Development (MuMiFaST). ERA-Net Blue Bio. October 1, 2021 – September 30, 2024. Grant amount €1,900,000
- Study on state of the art scientific information on the impacts of aquaculture activities in Europe. EASME/EMFF. January 11, 2021 – August 30, 2021.
- Environmental impact assessment of Danish off-coast fish farms in or nearby Natura-2000 areas. November 1, 2021 – October 30, 2022.
- Development of new sustainable methods in the mussel fishery (KulturMus). GUDP. January 1, 2020 – December 31, 2023. Grant amount €1,100,000
- New species, processes and products contributing to increased production and improved sustainability in emerging low trophic, and existing low and high trophic aquaculture value chains in the Atlantic (AquaVitae). EU Horizon2020. June 1, 2019 – May 31, 2023. Grant amount €8,000,000

### Selected publications

- Calhoun, W.R., Scheld, A.M., Taylor, D.P., Walton, W.C. (2025) Economic Feasibility of Low-Trophic Aquaculture within U.S. Offshore Wind Energy Areas. *Aquaculture Economics & Management*, 1–31. <https://doi.org/10.1080/13657305.2025.2471280>
- Taylor, D.P., Jakobsen, H., Lyngsgaard, M.M., Darecki, M., Werther, M., Maar, M., Saurel, C. (2024) Quantifying bivalve phytoplankton depletion in a eutrophic system: an integrated approach. *Limnology and Oceanography*, 69: 2436-2452. <https://doi.org/10.1002/lno.12680>
- Maar, M. Larsen, J., Butenschön, M., Kristiansen, T., Thodsen, H., Taylor, D., Schourup-Kristensen, V. (2024) Impacts of climate change on water quality, benthic mussels, and suspended mussel culture in a shallow, eutrophic estuary. *Heliyon*. 10.1016/j.heliyon.2024.e25218
- Taylor D., Larsen, J., Buer A.L., Friedland, R., Holbach, A., Petersen, J.K., Nielsen, P. Ritzenhofen L., Saurel, C., Maar, M. (2021) Mechanisms influencing particle depletion in and around mussel farms in different environments. *Ecological Indicators* 122, 107304. DOI: 10.1016/j.ecolind.2020.107304
- Taylor DP, Saurel C, Nielsen P and Petersen JK (2019) Production Characteristics and Optimization of Mitigation Mussel Culture. *Frontiers in Marine Science* 6:698. doi: 10.3389/fmars.2019.00698