

Esther Savina – Short CV

ORCID

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Degrees

- 2017 PhD, Technical University of Denmark
- 2012 MSc, Institut Agro Rennes (France)

Positions

- 2025 Senior researcher, Technical University of Denmark
- 2017-2024 Post doctoral researcher and Researcher, Technical University of Denmark
- 2009-2014 Environmental engineer for fixed and floating offshore wind farms developers (France)

Research area

- Specialized in fisheries technology, including gear selectivity, catch quality, discard survival, and advanced observation tools (e.g., stereo imaging, real-time trawl monitoring).
- Current research focuses on biodegradable fishing gear and the design of fishing-friendly offshore wind farms, supporting sustainable innovation and industry collaboration.
- Proxies and model optimization in complex biological systems with application on catch quality and end-of-pipe processes for recirculating aquaculture systems.

Memberships of scientific committees (last 5 years)

- ICES expert working groups Fishing Technology and Fish Behavior (WGFTFB) and Offshore Wind Development and Fisheries (WGOWDF)

Publications

Type of publication:	Number
Web of Science publications:	18
Citations:	149
<i>h</i> -index:	9
Other peer review publications:	-
Books:	-
Book chapters:	-
Reports:	5

International conferences (last 5 years)

Type of participation:	Number
Contributions as first author:	2
Invited:	1
Organizing role:	-

Advisory tasks (last 5 years)

- Study of coactivity between offshore wind power and professional fishing for Brittany Region (France, 2025)
- Knowledge sharing and recommendations for conflict solving between offshore wind and fisheries as part of the strategic sector cooperation between Brazil and Denmark for the Danish Energy Agency (2024)
- Collection of existing technical knowledge on the structure of fishing gear for use in preparing a scheme for environmentally graduated contribution on fishing gear for the Danish Ministry of Environment (2023)
- Review on the effects of offshore wind farms on commercial fish species and fisheries for the Danish Energy Agency (2022)

Educational tasks at academical level (last 5 years)

- Lecturer in DTU MSc course Applied Methods in Fisheries Technologies (25354)
- Lecturer in DTU MSc course Aquaculture end-of-pipe treatment with focus on residual resources (25351)
- Lecturer in DTU MSc course Sustainability of fish capture methods (25335)

Supervision (ongoing or finished in the last 5 years)

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

Innovation activities (last 5 years)

	Number
Patents:	1

- DTU invention number 96484 Communication and power link for real-time trawl camera

Collaboration with other stakeholders (within last 5 years)

- Lifelong learning for wind developpers and fisheries controllers.
- All projects involve industry partners.

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

- Investigating transport, resuspension, penetration impacts of demersal gears (INTREPID) (EHFAF, 2023-2027).
- Digitalized solutions for End of Pipe (EOP4.0) (EHFAF, 2023-2027)
- Caught and released: An overview of fishes' sensitivity to being discarded as a tool to aid Pursuing Ecosystem-based management 2 (COPE2) (EMFF, 2020-2023).
- Biodegradable netting (BIOGARN) (EMFF, 2019-2023).

Selected publications

- O'Neill, F. G., Eighani, M., Savina, E. (2024). Sediment penetration by towed, seabed-contacting, fishing gear components. *Marine Pollution Bulletin*, 209, 117229.
- Savina, E., Gieysztor Bertelsen, I.M., Cerbule, K., Le Gué, L., Herrmann, B., Krag, L.A., 2024. Can operational tactics compensate for weaker tensile properties of biodegradable gillnets? *Canadian Journal of Fisheries and Aquatic Sciences*, 81(12), 1773-1786.
- Le Gué, L., Savina, E., Arhant, M., Davies, P., Dumergue, N., Vincent, B., 2024. Influence of knot strength on the mechanical performance of a biodegradable gillnet. *Scientific Reports* 14, 15450.
- Savina, E., Herrmann, B., Frandsen, R. P., & Krag, L. A., 2022. A new method for estimating length-dependent capture modes in gillnets: a case study in the Danish cod (*Gadus morhua*) fishery. *ICES Journal of Marine Science*, 79(2), 373-381.
- Savina, E., Veiga-Malta, T., Melli, V., Feekings, J., 2022. Fishers can optimize legal gear designs if the system allows for enough flexibility: testing a modified SELTRA codend to reduce fish catch in the Danish trawl fishery for Norway lobster. *Ocean and Coastal Management*, 227, 106286.