

Vanessa Trijoulet – Short CV

ORCID

0000-0002-3831-1416

Degrees

- MSc, Centre of Oceanography of Marseille, France (2010).
- PhD, Department of Mathematics and Statistics, University of Strathclyde, Glasgow (2016).

Positions

- Postdoc, National Oceanic and Atmospheric Administration (NOAA, Northeast Fisheries Science Center)/School for Marine Science and Technology (SMAST, University of Massachusetts) (2016-2018).
- Postdoc, DTU Aqua, Technical University of Denmark (2018-2020).
- Researcher, Section for Marine Living Resources, DTU Aqua, Technical University of Denmark (2020-2023).
- Senior researcher, Section for Marine Living Resources, DTU Aqua, Technical University of Denmark (2023-present).
- ICES Advisory Committee (ACOM) member for Denmark (2024-present).

Research area

Population and marine ecosystem modelling. Development of management strategies for fish stocks. Stock assessment, fisheries management, rebuilding plans, and scientific advice.

Distinctions and awards

- Award of the best student presentation, 29th Annual Conference of the European Cetacean Society (2015).
- Award of the best student presentation, International Conference on Natural Resource Modelling (2015).
- Awarded grant from the American Mathematical Society, support to attend the 2016 Joint Mathematics Meetings (2016).
- Awarded grant from the Woods Hole Oceanographic Institution, National Science Foundation project, support to attend the 2017 ICES Annual Science Conference (2017).

Memberships of scientific committees (last 5 years)

- Co-chair of the Data Evaluation Workshop (DEWK) ICES Benchmark Workshop on Baltic Pelagic stocks WKBBALTPEL.
- Member of various ICES expert groups with annual participation: Working Group on Multispecies Assessment (WGSAM), Working Group on Mixed Fisheries Methods and Advice (WGMIXFISH), Herring Assessment Working Group for the Area South of 62°N (HAWG).
- Member of various ICES workshops and experts groups with punctual participation: Working Group on Stock Assessment Methods (MGWG), Workshop on guidelines and methods for the design and evaluation of rebuilding plans for category 1-2 stocks (WKREBUILD2), Workshop on ICES reference points (WKREF1), Inter-Benchmark Process to evaluate a change in operating model for mixed fishery considerations in the Celtic Sea and North Sea (IBPMIXFISH), The Inter-Benchmark Protocol of North Sea Herring (IBPNSHerring 2021), Workshop for the review of the assessment of a new rebuilding plan for Western Horse Mackerel (WKWHMRP), Workshop of Fisheries Management Reference Points in a Changing Environment (WKRPFChange), Workshop on guidelines and methods for the evaluation of rebuilding plans (WKREBUILD), Workshop on the Review and Future of State Space Stock Assessment Models in ICES (WKRFSAM).
- Co-chair of ICES Workshop on Rebuilding plans (WKREBUILD).

Publications

Type of publication:	Number
Web of Science publications:	13
Citations:	217
<i>h</i> -index:	8
Reports:	38

Evaluation tasks and reviews (last 5 years)

- Referee for a number of international journals including Fishery Research, Fish and Fisheries, ICES Journal of Marine Science, Canadian Journal of Fisheries and Aquatic Sciences, Journal of Applied Ecology.
- Reviewer for NOAA Georges Bank keyruns, WGSAM 2022
- Reviewer at the ICES benchmark Workshop on Baltic Pelagic stocks (WKBBALTPEL), 2022 – 2023
- Reviewer at the ICES benchmark Workshop on North Sea and Celtic Sea stocks (WKNSCS), 2021 – 2022
- Punctual reviews for ICES, e.g., three reviews of reference points in 2025.

Advisory tasks (last 5 years)

- Stock assessor for western Baltic spring-spawner herring (HAWG) since 2019.
- Danish member of ICES Advisory Committee (ACOM) since 2024 and member of various ICES expert groups.
- Co-chair of ICES WKREBUILD and WKBBALTPEL DEWK.

Educational tasks at academical level (last 5 years)

- DTU Aqua, Specialized Course in Evaluating Mixed Fishery and Choke Species Issues in the North Sea and Skagerrak, co-supervisor.

Supervision (ongoing or finished in the last 5 years)

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

Collaboration with other stakeholders (within last 5 years)

- Collaboration with organisations and private companies including Danish Pelagic Producers Organization, Pelagic Freezer-trawler Association, and the Pelagic Advisory Council.

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

- Research grant from the European Maritime, Fisheries and Aquaculture Fund (EMFAF): Trijoulet, V., Albertsen, C. A., Bekkevold, D., Berg, C. W., Christensen, B., Davies, J. O., Håkansson, K. B., Kristensen, K., Mosegaard, H., Mærsk Lusseau, S., Nielsen, A., Sparrevojn, C. R., & Vinther, M. REVLew, VALidate and update data and model for western Baltic spring-spawner herring (REVIVAL) (EFMVB-23-0007). 30/10/2023 – 19/01/2027. **Applicant, coordinator, and project leader.**
- Research grant from the European Maritime, Fisheries and Aquaculture Fund (EMFAF): Bekkevold, D., Mosegaard, H., Albertsen, C. M., Trijoulet, V. & Håkansson, K. B. HERMIX: Stock distributions in Atlantic herring: tracking populations with DNA (HERMIX) (EFMVB-23-0033). 28/10/2023 – 15/01/2027. **Project participant.**
- Research grant from the European Maritime, Fisheries and Aquaculture Fund (EMFAF): Dinesen, G. E., Edelvang, K., et al. JAMBAY: Mapping of seabed habitats and impacts of beam trawling and other demersal fisheries for spatial ecosystem-based management of the Jammer Bay (JAMBAY) (33113-B-23-189). 03/03/2023 – 31/12/2023. **Project participant.**
- Research grant from Ministry of Higher Education and Science and Danish Agency for Higher Education and Science EUopSTART: Trijoulet, V., Bastardie, F., Rindorf, A. CLYMENE socioecological models into the Digital Twin Ocean (HEU-MISS-2023-OCEAN-01-08) (3173-00145B EUOP). 17/08/20203 – 20/09/2023. **Project coordinator.**
- Research grant from the European Climate, Infrastructure and Environment Executive Agency (CINEA): Trijoulet, V. Study to assess the robustness of mixed fisheries scenario assumptions. Lot 1: In the Baltic Sea and North Sea EU waters. (CINEA/EMFAF/2021/3.1.4/04/SC13). 01/12/2022 – 01/09/2023. **Project participant.**
- Research grant from the European Union Horizon 2020's research and innovation programme: Rindorf, A., Brown, E. J., Neuenfeldt, S., van Deurs, M., Eero, M., Bastardie, F., Nielsen, J. R., Kokkalis, A., Brooks, M. E., Berg, C. W., Nielsen, A., Trijoulet, V., Storr-Paulsen, M., Larsen, F., Kindt-Larsen, L., Glemarec, G., Eigaard, O. R., Dinesen, G. E. & Haslund, O. H. Shaping ecosystem based fisheries management (SEAwise) (101000318). 01/10/2021 – 01/10/2025. **Project participant.**
- Research grant from the European Maritime and Fisheries Fund (EMFF): Bekkevold, D., Mosegaard, H., Berg, C. W., Norin, T., Trijoulet, V., Christensen, A., van Deurs, M., Nielsen, A., Støttrup, J. G. & Håkansson,

- K. B. Rebuilding Western Baltic Spring spawning (WBSS) herring (GENBYGSILD) (33113-B-20-174). 10/06/2020 – 21/02/2022. **Work-package leader.**
- Research grant from the European Maritime and Fisheries Fund (EMFF): Nielsen, A. M., Albertsen, C. M., Trijoulet, V., Berg, C. W., Kristensen, K., Payne, M., van Deurs, M. & Mosegaard, H. Emergency action for calculating stock size and reference points in case of massive data deficiency (BREFdata) (33113-B-17-106). 10/06/2020 – 04/08/2022. **Work-package co-leader.**
 - Research grant from the European Maritime and Fisheries Fund (EMFF): Brooks, M. E., van Deurs, M., Nielsen, A., Vinther, M., Berg, C. W., Rindorf, A., Kokkalis, A., Mildnerberger, T., Trijoulet, V., Neuenfeldt, S. & Jacobsen, N. S. North Sea in change: fishing in a changing ecosystem (ECONORTH) (33113-B-20-180). 11/06/2020 – 05/08/2022. **Work-package leader.**

Selected publications

- Albertsen, C.M., Perälä, T., Cardinale, M., Winker, H. and **Trijoulet, V.** (2024), Rebuilding and Reference Points Under Compensatory and Depensatory Recruitment: A Meta-Analysis of Northeast Atlantic Fish Stocks. *Fish and Fisheries*, DOI: 10.1111/faf.12872
- Karp, M.A., Link, J.S., Grezlik, M., Cadrin, S., Fay, G., Lynch, P., Townsend, H., Methot, R.D., Adams, G.D., Blackhart, K., Barceló, C., Buchheister, A., Cieri, M., Chagaris, D., Christensen, V., Craig, J.K., Cummings, J., Damiano, M.D., Dickey-Collas, M., Elvarsson, B.P., Gaichas, S., Haltuch, M.A., Haugen, J.B., Howell, D., Kaplan, I.C., Klajbor, W., Large, S.I., Masi, M., McNamee, J., Muffley, B., Murray, S., Plagányi, É., Reid, D., Rindorf, A., Sagarese, S.R., Schueller, A.M., Thorpe, R., Thorson, J.T., Tomczak, M.T., **Trijoulet, V.**, Voss, R. (2023) "Increasing the uptake of multispecies models in fisheries management". *ICES Journal of Marine Science*, DOI: 10.1093/icesjms/fsad001
- Bekkevold, D., Berg, F., Polte, P., Bartolino, V., Ojaveer, H., Mosegaard, H., Farrell, E.D., Fedotova, J., Hemmer-Hansen, J., Huwer, B., **Trijoulet, V.**, Albertsen, C.M., Fuentes-Pardo, A.P., Gröhsler, T., Pettersson, M., Jansen, T., Folkvord, A., Andersson, L. (2023). "Mixed-stock analysis of Atlantic herring (*Clupea harengus*): a tool for identifying management units and complex migration dynamics". *ICES Journal of Marine Science*. DOI: 10.1093/icesjms/fsac223
- **Trijoulet, V.**, Albertsen, C.M., Kristensen, K., Legault C.M., Miller, T.J., Nielsen, A. (2023). "Model validation for compositional data in stock assessment models: Calculating residuals with correct properties" *Fisheries Research*, Volume 257: 106487 DOI: 10.1016/j.fishres.2022.106487
- **Trijoulet, V.**, Berg, C.W., Miller, D.C.M., Nielsen, A., Rindorf, A. and Albertsen, C.M. (2022) "Turning reference points inside out: comparing MSY reference points estimated inside and outside the assessment model". *ICES Journal of Marine Science*, Volume 79, Issue 4, May 2022, Pages 1232–1244, DOI: 10.1093/icesjms/fsac047