



Tobias Karl Mildenberger – Short CV

ORCID

0000-0002-6631-7524

Degrees

- BSc, Environmental Sciences, University of Bayreuth (2013)
- MSc, Quantitative Marine Ecology, University of Bremen (2015)
- PhD, Sustainable Fisheries Management, Technical University of Denmark (2021)

Positions

- Research Assistant, Leibniz Center for Marine Tropical Research, Bremen, Germany (2013 – 2016)
- Research Scientist, DTU Aqua, Denmark (2016 – 2017)
- PhD Student, Technical University of Denmark (2017 – 2020)
- Postdoctoral Researcher, DTU Aqua, Denmark (2020 – 2023)
- Researcher, DTU Aqua, Denmark (2023 – present)

Research area

The development and application of spatiotemporal state-space models in marine ecology with specific focus on the assessment and management of marine resources, the estimation of spatiotemporal distribution and movement patterns, and the evaluation of the performance and effectiveness of management procedures for sustainable fisheries.

Distinctions and awards

Aquaeis (2013), Erasmus (2013), Promos (2014), Erasmus+ (2016), Otto Mønsted Foundation (2018, 2019), Idella Foundation (2019).

Memberships of scientific committees (last 5 years)

- Co-chair of ICES expert workshop on the development of quantitative assessment methodologies based on life-history traits, exploitation characteristics, and other relevant parameters for data-limited stocks (WKLIFE) (2022–present)
- Member of ICES expert working group on elasmobranch fishes (WGEF) (2023–present)
- Member of ICES expert methods working group (MGWG) (2024–present)

Publications

Type of publication:	Number
Web of Science publications:	21
Citations:	672
<i>h</i> -index:	10
Other peer review publications:	7
Book chapters:	1
Reports:	22

International conferences (last 5 years)

Type of participation:	Number
Contributions as first author:	4
Organizing role:	1

Evaluation tasks and reviews (last 5 years)

Regular reviews for 11 high ranking international scientific journals.

Advisory tasks (last 5 years)

Reviewer for ICES benchmark workshops on development for MSY advice using SPiCT (WKBMSYSPICT) (2022–present)

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

- Co-responsible for DTU MSc course: "*Fisheries Systems - management and modelling*" (25312) (2023–present)
- Teacher at DTU MSc course: "*Introduction to Aquatic Ecosystems and their organisms*" (25350) (2023–present)

Supervision (ongoing or finished in the last 5 years)

	Principal/main supervisor	Co-supervisor
Other (MSc etc.)	1	1
PhD:	0	2

Innovation activities (last 5 years)

Development of software packages

Collaboration with other stakeholders (within last 5 years)

Consultant for data-limited fish stock assessment methods for the Food and Agriculture Organization (FAO) of the United Nations.

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

European Maritime, Fisheries and Aquaculture Fund (EMFAF)

Selected publications

- Kokkalis, A., Berg, C.W., Kapur, M.S., Winker, H., Jacobsen, N.S., Taylor, M.H., Ichinokawa, M., Miyagawa, M., Medeiros-Leal, W., Nielsen, J.R. and Mildenerberger, T.K., 2024. Good practices for surplus production models. *Fisheries Research*, 275, p.107010. <https://doi.org/10.1016/j.fishres.2024.107010>
- Mildenerberger, T. K., Berg, C. W., Kokkalis, A., Hordyk, A. R., Wetzel, C., Jacobsen, N. S., Punt, A. E., & Nielsen, J. R. 2022. Implementing the precautionary approach into fisheries management: Biomass reference points and uncertainty buffers. *Fish and Fisheries*, 23(1), 73– 92. <https://doi.org/10.1111/faf.12599>
- Mildenerberger, T. K., Berg, C. W., Pedersen, M. W., Kokkalis, A., Nielsen, J. R. 2020. Time-variant productivity in biomass dynamic models on seasonal and long-term scales. *ICES Journal of Marine Science*, 77(1), 174-187. <https://doi.org/10.1093/icesjms/fsz154>
- Chong, L., Mildenerberger, T. K., Rudd, M. B., Taylor, M. H., Cope, J. M., Branch, T. A., Wolff, M., Stäbler, M. 2020. Performance evaluation of data-limited, length-based stock assessment methods. *ICES Journal of Marine Science*, 77(1), 97-108. Editor's choice. <https://doi.org/10.1093/icesjms/fsz212>
- Mildenerberger, T. K., Taylor, M. H., Wolff, M. 2017. TropFishR: an R package for fisheries analysis with length-frequency data. *Methods in Ecology and Evolution*, 8(11), 1520-1527. <https://doi.org/10.1111/2041-210X.12791>