Tobias K. Mildenberger

Year of birth: 1989

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 - present)

Research area
The development and application of state-space models in marine ecology with specific focus on the assessment and management of marine resources, 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).

Membership of scientific committees, 2016-present
ICES expert groups WKLife VII-X (2017-present), WKDLSSLS I-II (2019-present), and WKABSENS (2021);

Web of Science publications: 11. **Citations**: 369**.** ***h*-index**: 8. **Other peer review publications**: 6. **Books**: 0. **Book chapters**: 1. **Reports**: 12.

International conferences, 2016-present: Contributions as first author: 4. **Invited:** 0**. Organizing role:** 0.

Evaluation tasks, 2016-present
Regular reviews for 5 high ranking international scientific journals.

Advisory tasks, 2016-present
ICES WGBFAS 2017; ICES WKMSYSPiCT 2021.

Educational tasks at academical level, 2016-present
DTU courses **MSc**: Fisheries Systems (contributor);
Other courses: Population dynamics and fish stock (University of Bremen, Germany; contributor), Introduction to the assessment of tropical artisanal fisheries (University of Magdalena, Colombia; contributor).

Innovation, Patents: 0. **Other innovation activities, 2016-present**
Software packages: TropFishR, iamse, spictapp, TropFishShiny

Collaboration with other stakeholders, 2016-present
Consultant for data-limited fish stock assessment methods for Food and Agriculture Organization of the United Nations (FAO).

Selected publications

Mildenberger, T. K., Berg, C. W., Kokkalis, A., Hordyk, A. R., Wetzel, C., Jacobsen, N. S., Punt, A. E., & Nielsen, J. R. (2021). 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

Mildenberger, 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., Mildenberger, 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

Schwamborn, R., Mildenberger, T. K., Taylor, M. H. (2019). Assessing sources of uncertainty in length-based estimates of body growth in populations of fishes and macroinvertebrates with bootstrapped ELEFAN. Ecological Modelling, 393, 37-51. https://doi.org/10.1016/j.ecolmodel.2018.12.001

Taylor, M. H., Mildenberger, T. K. (2017). Extending electronic length frequency analysis in R. Fisheries Management and Ecology, 24(4), 330-338. https://doi.org/10.1111/fme.12232

Mildenberger, 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