

Tobias Kuhlmann Andersen – Short CV

ORCID

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Degrees

- PhD, Aarhus University, Denmark, 2021
- MSc, Aarhus University, Denmark, 2018
- BSc, University of Copenhagen, Denmark, 2015

Positions

- January 2025 to present, Tenure-track researcher, DTU Aqua
- February 2023 to December 2024, Postdoc, DTU Aqua
- November 2021 to January 2023, Postdoc, Aarhus University

Research area

My research seeks to understand how aquatic ecosystems function and respond to natural and anthropogenic pressures. By applying and developing process-based hydrodynamic and aquatic ecosystem models combined with historic and high-frequency data on water quality and food webs, I seek to understand the emergent responses of aquatic ecosystems to its environment by disentangling and resolving interactions between physical, chemical, and biological processes. This understanding is crucial to develop accurate and robust decision-support tools so stakeholders and the public can most effectively preserve, manage, and restore ecosystem services, aquatic biodiversity and water resources under pressures from local and global changes.

Distinctions and awards

- Colin Reynolds Prize, 2021

Publications

Type of publication:	Number
Web of Science publications:	11
Citations:	235
<i>h</i> -index:	7
Other peer review publications:	0
Books:	0
Book chapters:	0
Reports/Memorandums:	1
Software	4

International conferences (last 5 years)

Type of participation:	Number
Contributions as first author:	10
Invited:	3
Organizing role:	0

Advisory tasks (last 5 years)

- Marine Virkemidler, 2022 to 2025
- Kystvandråd for centrale del af Limfjorden, 2022 to present

Educational tasks at academical level (last 5 years)

- Computational Marine Ecological Modelling 25314 (10 ECTS, Master level)
- Integrated catchment modelling (Master level, Sino-Danish Center)

Supervision (ongoing or finished in the last 5 years)

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

PhD:	0	0
Postdoc:	0	

Innovation activities (last 5 years)

	Number
Patents:	0

Collaboration with other stakeholders (within last 5 years)

- Limfjordsrådet
- Muslingeerhvervet

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

- Bæredygtig Udvidelse af Muslingeproduktionen (BUMUS), 2024-2027
- Kumulative Effekter af Muslingeopdræt (KUMO), 2022-2027

Selected publications

- Schnedler-Meyer, N.A., Andersen, T.K. 2024. Dining in danger: Resolving adaptive fish behavior increases realism of modeled ecosystem dynamics. Ecology and Evolution 14 (8).
- Andersen, T.K., Nielsen, A., Jeppesen, E., Bolding, K., Johansson, L.S., Søndergaard, M., Trolle, D., 2022. Simulating shifting ecological states in a restored, shallow lake with multiple single-model ensembles: Lake Arreskov, Denmark. Environ. Model. Softw. 156, 105501.
- Schnedler-Meyer, N.A., Andersen, T.K., Hu, F.R.S., Bolding, K., Nielsen, A., Trolle, D., 2022. Water Ecosystems Tool (WET) 1.0 – a new generation of flexible aquatic ecosystem model. Geosci. Model Dev. 15, 3861–3878.
- Andersen, T.K., Bolding, K., Nielsen, A., Bruggeman, J., Jeppesen, E., Trolle, D., 2021. How morphology shapes the parameter sensitivity of lake ecosystem models. Environ. Model. Softw. 136, 104945.
- Andersen, T.K., Nielsen, A., Jeppesen, E., Hu, F., Bolding, K., Liu, Z., Søndergaard, M., Johansson, L.S., Trolle, D., 2020. Predicting ecosystem state changes in shallow lakes using an aquatic ecosystem model: Lake Hinge, Denmark, an example. Ecol. Appl. 30.