Christoffer Moesgaard Albertsen

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🎓 12-25 1988
⚤ Married, two children
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Education

2018 | **PhD, National Institute Of Aquatic Resources, Technical University Of Denmark**
- Thesis: State-Space Modelling in Marine Science
- Advisors: Senior researcher Anders Nielsen and Associate professor Uffe Høgsbro Thygesen.

2014 | **Master of Science, Statistics, Department Of Mathematical Sciences, University Of Copenhagen**
- Thesis: Determining Depth Preferences of Turbot
- Thesis advisors: Professor (with special responsibilities) Helle Sørensen and Senior researcher Anders Nielsen.

2012 | **Bachelor of Science, Mathematics, Department Of Mathematical Sciences, University Of Copenhagen**
- Thesis: A Statistical Analysis of the Housing Market
- Thesis advisors: Professor Susanne Ditlevsen and Associate Professor Søren Tolver Jensen.

Positions

2022/02 - | **Senior researcher, DTU Aqua, Danmarks Tekniske Universitet, Kgs. Lyngby, Denmark**

2018/06 - 2022/01 | **Researcher, DTU Aqua, Danmarks Tekniske Universitet, Kgs. Lyngby, Denmark**

2018/04 - 2018/05 | **Postdoc, DTU Aqua, Danmarks Tekniske Universitet, Kgs. Lyngby, Denmark**

2017/12 - 2018/03 | **Research assistant, DTU Aqua, Danmarks Tekniske Universitet, Kgs. Lyngby, Denmark**

2014/12 - 2017/11 | **Phd student, DTU Aqua, Danmarks Tekniske Universitet, Charlottenlund, Denmark**

2014/02 - 2014/11 | **Research assistant, DTU Aqua, Danmarks Tekniske Universitet, Charlottenlund, Denmark**

2010/11 - 2014/01 | **Student assistant, Boligsiden A/S, Copenhagen, Denmark**

Leaves

2025/01 - 2025/05	**Parental leave** 16 weeks from 13/01 2025 to 04/05 2025
2019/05 - 2019/05	**Paternity leave** 2 weeks from 06/05 2019 to 17/05 2019
2020/04 - 2020/07	**Parental leave** 13 weeks from 02/04 2020 to 01/07 2020
2019/08 - 2019/08	**Paternity leave** 2 weeks from 14/08 2019 to 27/08 2019

Research stays and visits

2016/01 - 2016/06	**Inter American Tropical Tuna Commission, La Jolla, San Diego, California, U.S.A.** - External research stay during PhD - Visiting: Head of Assessment Program, Dr. Mark Maunder
2016/03 - 2016/03	**Department of Mathematics and Statistics, Dalhousie University, Halifax, Nova Scotia, Canada** - One week collaborative research visit - Visiting: Professor, Dr. Joanna Mills Flemming

Publications (peer-reviewed)

20xx	Yang, F., Benini, E., Sørensen, S. R., **Albertsen, C. M.**, Kottmann, J., Butts, I. A. E., Tomkiewicz, J., and Politis, S. N. (In Press) European eel larvae are sensitive to vibration and light. *Aquaculture*. doi: 10.1016/j.aquaculture.2025.742569
2025	**Albertsen, C. M.**, Perälä, T., Cardinale, M., Winker, H., and Trijoulet, V. (2025) Rebuilding and Reference Points Under Compensatory and Depensatory Recruitment: A Meta-Analysis of Northeast Atlantc Fish Stocks. *Fish and Fisheries*, 26(1), 171-192. doi: 10.1111/faf.12872
2024	Cadigan, N., **Albertsen, C. M.**, Zheng, N., and Nielsen, A. (2024) Are state-space stock assessment model confidence intervals accurate? Case studies with SAM and Barents Sea stocks. *Fisheries Research*, 272, 106950. doi: 10.1016/j.fishres.2024.106950
2023	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., and 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*, 80, 173-184. doi: 10.1093/icesjms/fsac223
2023	Trijoulet, V., **Albertsen, C. M.**, Kristensen, K., Legault, C. M., Miller, T. J., and Nielsen, A. (2023) Model validation for compositional data in stock assessment models: calculating residuals with correct properties. *Fisheries Research*, 257, 106487. doi: 10.1016/j.fishres.2022.106487

2022   Chambault, P., Kovacs, K. M., Lydersen, C., Shpak, O., Teilmann, J., **Albertsen, C. M.**, and Heide-Jørgensen, M. P. (2022) Future seasonal changes in habitat for Arctic whales during predicted ocean warming. *Science Advances*, 8(29), eabn2422. doi: 10.1126/sciadv.abn2422

2022   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*, 79(4), 1232-1244. doi: 10.1093/icesjms/fsac047

2022   Hüssy, K., **Albertsen, C. M.**, Hemmer-Hansen, J., Eero, M., Vinther, M., Serre, S. H., and Thomsen, T. B. (2022) Where do you come from, where do you go: Early life stage drift and migrations of cod inferred from otolith microchemistry and genetic population assignment. *Canadian Journal of Fisheries and Aquatic Sciences*, 79(2), 300-313. doi: 10.1139/cjfas-2020-0409

2021   **Albertsen, C. M.**, Hüssy, K., Serre, S. H., Hemmer-Hansen, J., and Thomsen, T. B. (2021) Estimating migration patterns of fish from otolith chemical composition time-series. *Canadian Journal of Fisheries and Aquatic Sciences*, 78(10), 1512–1523. doi: 10.1139/cjfas-2020-0356

2020   Chambault, P., Tervo, O. M., Garde, E., Hansen, R. G., Blackwell, S. B., Williams, T. M., Dietz, R., **Albertsen, C. M.**, Laidre, K. L., Nielsen, N. H., Richard, P., Sinding, M. H. S., Schmidt, H. C., and Heide-Jørgensen, M. P. (2020) The impact of rising sea temperatures on an Arctic top predator, the narwhal. *Scientific Reports*, 10, 18678. doi: 10.1038/s41598-020-75658-6

2020   Chladek, J. C., Culik, B. M., Kindt-Larsen, L., **Albertsen, C. M.**, and von Dorrien, C. (2020) Synthetic harbour porpoise (Phocoena phocoena) communication signals emitted by acoustic alerting device (PAL, 'Porpoise ALert') significantly reduce their bycatch in Western Baltic set net fisheries . *Fisheries Research*, 232, 105732. doi: 10.1016/j.fishres.2020.105732

2020   **Albertsen, C. M.** and Trijoulet, V. (2020) Model-based estimates of reference points in an age-based state-space stock assessment model. *Fisheries Research*, 230, 105618. doi: 10.1016/j.fishres.2020.105618

2020   Maunder, M. N., Thorson, J. T., Xu, H., Oliveros-Ramos, R., Hoyle, S. D., Tremblay-Boyer, L., Lee, H. H., Kai, M., Chang, S., Kitakado, T., **Albertsen, C. M.**, Minte-Vera, C. V., Lennert-Cody, C. E., Aires-da-Silva, A., and Piner, K. R. (2020) The need for spatio-temporal modeling to determine catch-per-unit effort based indices of abundance and associated composition data for inclusion in stock assessment models. *Fisheries Research*, 229, 105594. doi: 10.1016/j.fishres.2020.105594

2019   **Albertsen, C. M.** (2019) Generalizing the first-difference correlated random walk for animal movement data. *Scientific Reports*, 9, 4017. doi: 10.1038/s41598-019-40405-z

2018   Chambault, P., **Albertsen, C. M.**, Patterson, T. A., Hansen, R. G., Tervo, O., Laidre, K. L., and Heide-Jørgensen, M. P. (2018) Sea surface temperature predicts the movements of an Arctic cetacean: the bowhead whale. *Scientific Reports*, 8, 9658. doi: 10.1038/s41598-018-27966-1

2018   **Albertsen, C. M.**, Nielsen, A., and Thygesen, U. H. (2018) Connecting single-stock assessment models through correlated survival. *ICES Journal of Marine Science*, 75(1), 235-244. doi: 10.1093/icesjms/fsx114

2017 Thygesen, U. H., **Albertsen, C. M.**, Berg, C. W., Kristensen, K., and Nielsen, A. (2017) Validation of ecological state space models using the Laplace approximation. *Environmental and Ecological Statistics*, 24(2), 317-339. doi: 10.1007/s10651-017-0372-4

2017 Whoriskey, K., Auger-Méthé, M., **Albertsen, C. M.**, Whoriskey, F. G., Binder, T. R., Krueger, C. C., and Flemming, J. M. (2017) A Hidden Markov Movement Model for rapidly identifying behavioral states from animal tracks. *Ecology and Evolution*, 7(7), 2112-2121. doi: 10.1002/ece3.2795

2017 **Albertsen, C. M.**, Nielsen, A., and Thygesen, U. H. (2017) Choosing the observational likelihood in state-space stock assessment models. *Canadian Journal of Fisheries and Aquatic Sciences*, 74(5), 779-789. doi: 10.1139/cjfas-2015-0532

2017 Auger-Méthé, M., **Albertsen, C. M.**, Jonsen, I. D., Derocher, A. E., Lidgard, D. C., Studholme, K. R., Bowen, W. D., Crossin, G. T., and Flemming, J. M. (2017) Spatiotemporal modelling of marine movement data using Template Model Builder. *Marine Ecology Progress Series*, 565, 237-249. doi: 10.3354/meps12019

2016 Auger-Méthé, M., Field, C., **Albertsen, C. M.**, Derocher, A. E., Lewis, M. A., Jonsen, I. D., and Flemming, J. M. (2016) State-space models' dirty little secrets: even simple linear Gaussian models can have parameter and state estimation problems. *Scientific Reports*, 6, 26677. doi: 10.1038/srep26677

2016 Hüssy, K., Mosegaard, H., **Albertsen, C. M.**, Hemmer-Hansen, J., Nielsen, E. E., and Eero, M. (2016) Evaluation of otolith shape as a tool for stock discrimination in marine fishes using Baltic Sea cod as a case study. *Fisheries Research*, 174, 210-218. doi: 10.1016/j.fishres.2015.10.010

2015 Karlsen, J. D., Krag, L. A., **Albertsen, C. M.**, and Frandsen, R. P. (2015) From Fishing to Fish Processing: Separation of Fish from Crustaceans in the Norway Lobster-Directed Multispecies Trawl Fishery Improves Seafood Quality. *PLoS ONE*, 10(11), e0140864. doi: 10.1371/journal.pone.0140864

2015 **Albertsen, C. M.**, Whoriskey, K., Yurkowski, D., Nielsen, A., and Flemming, J. M. (2015) Fast fitting of non-Gaussian state-space models to animal movement data via Template Model Builder. *Ecology*, 96(10), 2598-2604. doi: 10.1890/14-2101.1

2015 Christensen, H. T., Dolmer, P, Hansen, B. W., Holmer, M., Kristensen, L. D., Poulsen, L. K., Stenberg, C., **Albertsen, C. M.**, and Støttrup, J. G. (2015) Aggregation and attachment responses of blue mussels, *Mytilus edulis* - impact of substrate composition, time scale and source of mussel seed. *Aquaculture*, 435, 245-251. doi: 10.1016/j.aquaculture.2014.09.043

2014 **Albertsen, C. M.**, Støttrup, J. G., Nielsen, A., and Christoffersen, M. O. (2014) Depth preference in released juvenile turbot *Psetta maxima*. *Journal of Experimental Marine Biology and Ecology*, 461, 179-184. doi: 10.1016/j.jembe.2014.07.013

2014 **Albertsen, C.** and Daetz, B. (2014) Are the house prices moving up or down?. *Finans/Invest*, 324(4), 24-31. *In Danish*.

Publications (other), reports, and manuscripts

2024 | Nielsen, A., Stage, B., Berg, C. W., **Albertsen, C. M.**, Bekkevold, D., Pedersen, E. M., Mosegaard, H., Davies, J. O., Rudolph, R. A., Bertelsen, S. K., Norin, T., and Trijoulet, V. (2024) *Rebuilding Western Baltic Spring Spawning (WBSS) herring (GENBYGSILD)* (DTU Aqua Report No. 471-2024). Kgs. Lyngby, Denmark: Institut for Akvatiske Ressourcer. doi: 10.11581/455daa2d-2fd4-4c60-96b3-8877a2d33000

2024 | Nielsen, A., Christensen, A., Stage, B., Berg, C. W., **Albertsen, C. M.**, Davies, J. O., Kristensen, K., van Deurs, M., Henriksen, O., and Mildenberger, T. K. (2024) *Emergency action for calculating stock size and reference points in case of massive data deficiency (BREFdata)* (DTU Aqua Report No. 459-2024). Kgs. Lyngby, Denmark: Institut for Akvatiske Ressourcer. doi: 10.11581/dtu.00000333

2024 | Hüssy, K., Hemmer-Hansen, J., **Albertsen, C. M.**, Jimenez-Mena, B., Vinter, M., Krüger-Johnsen, E. M., and Eero, M. (2024) *Management of mixed cod stocks in the transition zone between the North Sea and the Baltic Sea: How can this be achieved efficiently? (FABBIO)* (DTU Aqua Report No. 458-2024). Kgs. Lyngby, Denmark: Institut for Akvatiske Ressourcer. doi: 10.11581/dtu.00000332

2024 | Berg, F., Trijoulet, V., **Albertsen, C. M.**, Bekkevold, D., Bartolino, V., Kvamme, C., and Rohlf, N. (2024) *Stock splitting of North Sea autumn spawners (NSAS) and western Baltic spring spawners (WBSS) for their 2024 assessments* (WD in: ICES. 2024. Herring Assessment Working Group for the Area South of 62° N (HAWG). ICES Scientific Reports. 6:24. 969 pp. https://doi.org/10.17895/ices.pub.25305532). Copenhagen, Denmark: International Council for the Exploration of the Sea.

2023 | Berg, F., Trijoulet, V., **Albertsen, C. M.**, Håkansson, K. B., Bekkevold, D., Mosegaard, H., Bartolino, V., Kvamme, C., Rohlf, N., and Bergès, B. (2023) *Stock splitting of North Sea autumn spawners (NSAS) and western Baltic spring spawners (WBSS) for their 2023 assessments* (WD01 in: ICES. 2023. Herring Assessment Working Group for the Area South of 62° N (HAWG). ICES Scientific Reports. 5:23. 837 pp. https://doi.org/10.17895/ices.pub.22182034). Copenhagen, Denmark: International Council for the Exploration of the Sea.

2022 | Berg, C. W., Sparrevohn, C. R., Nielsen, A., Stage, B., **Albertsen, C. M.**, Bekkevold, D., Pedersen, E. M. F., Davies, J. O., Kristensen, K., and Håkansson, K. B. (2022) *Forbedring af sildebestandsvurdering og -fremskrivning, der udnytter forbedret fiskeridata og biologisk information* (DTU Aqua Report No. 406-2022). Kgs. Lyngby, Denmark: Institut for Akvatiske Ressourcer. *In Danish.*

2022 | Berg, F., Trijoulet, V., **Albertsen, C. M.**, Håkansson, K. B., Bekkevold, D., Mosegaard, H., Gröhsler, T., Bartolino, V., Kvamme, C., Rohlf, N., Pastoors, M., and Bergès, B. (2022) *Stock splitting of North Sea autumn spawners (NSAS) and western Baltic spring spawners (WBSS) for their 2022 assessments* (WD for the Herring Assessment Working Group, ICES). Copenhagen, Denmark: International Council for the Exploration of the Sea.

2022 | van Deurs, M., Bekkevold, D., Huwer, B., Henriksen, O., **Albertsen, C. M.**, Munk, P, Storr-Paulsen, M., Makri, M., Davies, J. O., Mildenberger, T., and Jensen, G. H. (2022) *Pelagic species - A contribution to the preservation of sustainable pelagic fisheries in the North Sea (PELA)* (DTU Aqua Report No. 403-2022). Kgs. Lyngby, Denmark: Institut for Akvatiske Ressourcer. *In Danish.*

2021 Eero, M., **Albertsen, C. M.**, Baktoft, H., Berg, C. W., Bucholtz, R. H., Hemmer-Hansen, J., Huwer, B., Hüssy, K., Kristensen, K., Krüger-Johnsen, M., Köster, F., Maureaud, A., Nielsen, J. J., Ryberg, M. P., Storr-Paulsen, M., Tomkiewicz, J., and Vinther, M. (2021) *Improving knowledge base for management of cod stocks in the Baltic Sea and in the Kattegat* (DTU Aqua Report No. 393-2021). Kgs. Lyngby, Denmark: Institut for Akvatiske Ressourcer. *In Danish.*

2021 van Deurs, M., Huwer, B., Munk, P., Lindegren, M., Brooks, M. E., **Albertsen, C. M.**, Hamer, A. L., Christensen, A., Henriksen, O., and Rindorf, A. (2021) *Bevarelse af et bæredygtigt industri-fiskeri − Brisling i Nordsøen og IIIa (BEBRIS)* (DTU Aqua Report No. 382-2021). Kgs. Lyngby, Denmark: Institut for Akvatiske Ressourcer. *In Danish.*

2020 Hemmer-Hansen, J., Hüssy, K., Vinter, M., **Albertsen, C. M.**, Storr-Paulsen, M., and Eero, M. (2020) *Sustainable management of Kattegat cod; better knowledge of stock components and migration* (DTU Aqua Report No. 357-2020). Kgs. Lyngby, Denmark: Institut for Akvatiske Ressourcer. *In Danish.*

2019 **Albertsen, C. M.**, Mosegaard, H., and Nielsen, A. (2019) *Bestandsvurdering og forvaltning af forbundne bestande* (DTU Aqua Report No. 347-2019). Kgs. Lyngby, Denmark: Institut for Akvatiske Ressourcer. *In Danish.**

2018 **Albertsen, C. M.** (2018) *Note on a method for estimating stock mixing proportions by otolith shape* (WD 11 in: ICES. 2019. Benchmark Workshop on Baltic Cod Stocks (WKBALTCOD2). ICES Scientific Reports. 1:9. 310 pp.). Copenhagen, Denmark: International Council for the Exploration of the Sea. doi: 10.17895/ices.pub.4984

2017 Maunder, M. N., Thorson, J. T., Lee, H. H., Kai, M., Chang, S. K., Kitakado, T., **Albertsen, C. M.**, Lennert-Cody, C. E., Aires-da-Silva, A. M., and Piner, K. R. (2017) *The need for spatial-temporal modeling of catch-per-unit-effort data when used to derived indices of relative abundance to include in stock assessment models.* (Working Paper No. SAC-08-05d). La Jolla, California, U.S.A: Inter-American Tropical Tuna Commission.

2017 Maunder, M. N., Thorson, J. T., Lee, H. H., Kai, M., Chang, S. K., Kitakado, T., **Albertsen, C. M.**, and Piner, K. R. (2017) *The need for spatial-temporal modeling of catch-per-unit-effort data when used to derived indices of relative abundance to include in stock assessment models.* (Working Paper No. ISC/17/PBFWG-1/05). Shizuoka, Japan: The Pacific Bluefin Tuna Working Group, International Scientific Council for Tuna and Tuna-like species.

2014 Karlsen, J. D., Krag, L. A., Lund, H. S., Lewy, P., **Albertsen, C. M.**, Kajgaard, L., Clausen, B., Thomsen, F., Jensen, L. P., Kajgaard, J., Kusk, M., Pedersen, C., Madsen, N., and Frandsen, R. (2014) *Værdioptimering af fiskefangsten i dansk blandet fiskeri (VærdiFisk) - forbedret kvalitet og selektion som følge af redskabsudvikling* (Government Report). Copenhagen, Denmark: Ministeriet for Fødevarer, Landbrug og Fiskeri. *In Danish.*

* *Authors are listed alphabetically.*

Public sector consultancy

2024 Co-editor on ICES Report 'ICES. 2024. Workshop on Stock Identification and Allocation of Catches of Herring to Stocks (WKSIDAC3). 6:101. 126 pp. https://doi.org/10.17895/ices.pub.27902457'

2024 Co-author on ICES Report 'ICES. 2024. Herring Assessment Working Group (HAWG). ICES Scientific Reports. 06:24. 969 pp. https://doi.org/10.17895/ices.pub.25305532'

2024 Co-author on ICES Report 'ICES. 2024. Workshop on the calculation and evaluation of new reference points for category 1–2 stocks (WKNEWREF). ICES Scientific Reports. 6:100. 241 pp. https://doi.org/10.17895/ices.pub.27905664'

2024 Participated with presentation at the Methods Working Group 2024 (MGWG)

2024 Co-chair at the Workshop on Stock Identification and Allocation of Catches of Herring to Stocks (WKSIDAC3)

2024 Method developed for estimating stock mixing proportions was used as input for the assessments of North Sea Autumn Spawning and Western Baltic Spring Spawning herring.

2024 Method developed for estimating stock mixing proportions was used as input for the assessments of Eastern and Western Baltic cod.

2024 Participated at the Herring Assessment Working Group for the Area South of 62° N (HAWG)

2024 Participated at the Workshop on the calculation and evaluation of new reference points for category 1–2 stocks (WKNEWREF)

2024 Co-author on ICES Report 'ICES. 2024. Second Workshop on Stock Identification and Allocation of Catches of Herring to Stocks (WKSIDAC2; outputs from 2023 meeting). ICES Scientific Reports. 6:5. 67 pp. https://doi.org/10.17895/ices.pub.24998747'

2023 Co-author on ICES Report 'ICES. 2023. Workshop on guidelines and methods for the design and evaluation of rebuilding plans for category 1-2 stocks (WKREBUILD2). ICES Scientific Reports. 5:112. 79 pp. https://doi.org/10.17895/ices.pub.24763293'

2023 Participated with presentation at the Methods Working Group 2023 (MGWG)

2023 Participated with presentation at the Workshop on guidelines and methods for the design and evaluation of rebuilding plans for category 1-2 stocks (WKREBUILD2)

2023 Model and software developed for multi-stock assessments was used for the advice on fishing opportunities for Northern shelf cod

2023 Participated with invited presentation at the Second workshop on stock identification and allocation of catches of herring to stocks (WKSIDAC2)

2023 Method developed for estimating stock mixing proportions was used as input for the assessments of North Sea Autumn Spawning and Western Baltic Spring Spawning herring.

2023	Method developed for estimating stock mixing proportions was used as input for the assessments of Eastern and Western Baltic cod.
2023	Participated at the Herring Assessment Working Group for the Area South of 62° N (HAWG)
2023	Co-author on ICES Report 'ICES. 2023. Benchmark workshop on Northern Shelf cod stocks (WKBCOD). ICES Scientific Reports. 5:37. 425 pp. https://doi.org/10.17895/ices.pub.22591423'
2023	Participated at the Benchmark Workshop for Northern Shelf cod stocks (WKBCOD)
2022	Provided stock composition estimates for the benchmark of Greenland cod stocks
2022	Participated at the Benchmark Workshop for Northern Shelf cod stocks (WKBCOD) data compilation workshop
2022	Participated at the Methods Working Group (MGWG) 2022 meeting
2022	Co-author on ICES Report 'ICES. 2022. Stock Identification Methods Working Group (SIMWG). ICES Scientific Reports. 4:72. 66 pp. http://doi.org/10.17895/ices.pub.20937001'
2022	Co-author on ICES Report 'ICES.2022. Workshop on ICES reference points(WKREF2).ICES Scientific Reports. 4:68. 96pp.http://doi.org/10.17895/ices.pub.20557008'
2022	Participated at the Stock Identification Methods Working Group (SIMWG) annual meeting
2022	Participated at the Herring Assessment Working Group for the Area South of 62° N (HAWG)
2022	Method developed for estimating stock mixing proportions was used as input for the assessments of North Sea Autumn Spawning and Western Baltic Spring Spawning herring.
2022	Method developed for estimating stock mixing proportions was used as input for the assessments of Eastern and Western Baltic cod.
2022	Co-author on ICES Report 'ICES. 2022. Workshop on Stock Identification of West of Scotland Sea Cod (WK6aCodID; outputs from 2021 meeting). ICES Scientific Reports. 4:5. 24 pp. https://doi.org/10.17895/ices.pub.10031'
2022	Participated at the Workshop on guidelines for reference points (WKREF2)
2022	Co-author on ICES Report 'ICES. 2022. Workshop on ICES Reference Points (WKREF1). ICES Scientific Reports. 4:2. 70 pp. https://doi.org/10.17895/ices.pub.9749'
2021	Participated in Workshop on Stock Identification of West of Scotland Sea Cod (WK6aCodID)
2021	Participated with invited presentation at the Workshop on ICES reference points (WKREF1)
2021	Participated in Workshop on Northern Shelf cod stocks (WKCOD) preparatory meetings

2021	Co-author on ICES Report 'ICES. 2021. Stock Identification Methods Working Group (SIMWG). ICES Scientific Reports. 3:90. 37 pp. https://doi.org/10.17895/ices.pub.8290'
2021	Participated at the Stock Identification Methods Working Group (SIMWG) annual meeting
2021	Method developed for estimating stock mixing proportions was used as input for the assessments of Eastern and Western Baltic cod.
2020	Method developed for estimating stock mixing proportions was used as input for the assessments of Eastern and Western Baltic cod.
2020	Co-author on ICES Report 'ICES. 2020. Workshop on the Review and Future of State Space Stock Assessment Models in ICES (WKRFSAM). ICES Scientific Reports. 2:32. 23 pp. https://doi.org/10.17895/ices.pub.6004'
2020	Participated at the Workshop on the Review and Future of State Space Stock Assessment Models in ICES (WKRFSAM)
2019	Co-author on ICES Report 'ICES. 2019. Baltic Fisheries Assessment Working Group (WGBFAS). ICES Scientific Reports. 1:20. 653 pp. https://doi.org/10.17895/ices.pub.5949'
2019	Co-author on ICES Report 'ICES. 2019. Benchmark Workshop on Baltic Cod Stocks (WKBALTCOD2). ICES Scientific Reports. 1:9. 310 pp. http://doi.org/10.17895/ices.pub.4984'
2019	Presentation at the ICES Benchmark Workshop on Baltic Cod Stocks (WKBALTCOD2) benchmark meeting
2018	Authored working document for the ICES Benchmark Workshop on Baltic Cod Stocks (Albertsen 2018 WD 11 in ICES 2019).
2018	Presentation at the ICES Benchmark Workshop on Baltic Cod Stocks (WKBALTCOD2) data meeting
2017	Co-authored working paper for the Pacific Bluefin Tuna Working Group Workshop 2017 (Maunder et. al. 2017 Working Paper ISC/17/PBFWG-1/05)
2017	Co-authored working paper for the IATTC 8th Meeting of the Scientific Advisory Committee (Maunder et. al. 2017 Working Paper SAC-08-05d)
2016	Presentation at the ICES Benchmark Workshop on Baltic Stocks (WKBALT) data meeting
2016	Attended the IATTC 7th Meeting of the Scientific Advisory Committee
2014	Co-authored report to the Danish Ministry of Food, Agriculture and Fishery (Karlsen et. al. 2014)

Talks and lectures

2024 "Calculating confidence intervals for Mohn's rho using a multi-stock model Part III", ICES Methods Working Group (MGWG). Copenhagen, Denmark.

2024 "Sample size considerations for herring - Based on simulations", ICES workshop on stock identification and allocation of catches of herring to stocks (WKSIDAC3). Bergen, Norway (online).

2024 "Northern Shelf Cod", SAMSKAG conference on management of Skagerrak. Strömstad, Sweden (online) (*Invited*).

2023 "Confidence intervals for Mohn's rho through a multi-stock model", ICES Methods Working Group (MGWG). East Lansing, Michigan, USA (online).

2023 "Consequences of ignoring the possibility of depensatory recruitment for rebuilding times", Workshop on guidelines and methods for the design and evaluation of rebuilding plans for category 1-2 stocks (WKREBUILD2). Copenhagen, Denmark (online).

2023 "Implementation of stock identification for assessments - Statistical challenges", Second workshop on stock identification and allocation of catches of herring to stocks. Copenhagen, Denmark (*Invited*).

2022 "Multi-stock extension of SAM - and reference points", ICES Methods Working Group. Lowestoft, England, United Kingdom.

2021 "Estimation of reference points in state space models, SAM", Workshop on ICES reference points. Online (*Invited*).

2020 "Investigating distributional assumptions in single-stock state-space assessment models", Workshop on ICES reference points. Copenhagen, Denmark.

2017 "Introduction to Template Model Builder - 135 minute lecture", Banff International Research Station / Casa Matemática Oaxaca, New perspectives on State Space Models Workshop. Oaxaca, Oaxaca, Mexico (*Invited*).

2015 "Choosing the Observational Likelihood in State-Space Stock Assessment Models", Center for the Advancement of Population Assessment Methodology, Data Weighting Workshop. La Jolla, California, USA.

2015 "Choosing the Observational Likelihood in State-Space Stock Assessment Models", ICES Annual Science Conference. Copenhagen, Denmark.

2015 "Maximum Likelihood Estimation Using TMB", Statistical Society of Canada Annual Meeting. Halifax, Nova Scotia, Canada (*Invited*).

2015 "Introduction to Template Model Builder & TMB in Practice", Ocean Tracking Network, Visualizing and Analyzing Telemetry Data in R. Halifax, Nova Scotia, Canada (*Invited*).

2014 "Introduction to Template Model Builder - Two hour lecture, one day with exercises, and one day with questions", Ocean Tracking Network, State-Space Modelling Workshop. Halifax, Nova Scotia, Canada (*Invited*).

Grants

2024 European Maritime, Fisheries and Aquaculture Fund, *Stickleback (Gasterosteus aculeatus) fishery development: From biology to management (STICKMAN, project no GROFISK-24-0026)*
PI: Karin Hüssy (DTU Aqua). Total DTU Aqua budget: DKK 9,713,853
Role: Named key project participant in proposal.

2024 European Maritime, Fisheries and Aquaculture Fund, *REVIew, VALidate and update data and model for western Baltic spring-spawner herring (REVIVAL, project no EFMVB-23-0007)*
PI: Vanessa Trijoulet (DTU Aqua). Total DTU Aqua budget: DKK 2,398,661
Role: Work package leader

2024 European Maritime, Fisheries and Aquaculture Fund, *Can Genetic Close-Kin Mark-Recapture rescue the Mackerel assessment? (CANMAC, project no EFMVB-23-0028)*
PI: Anders Nielsen (DTU Aqua). Total DTU Aqua budget: DKK 500,259
Role: Work package leader (shared)

2024 European Maritime, Fisheries and Aquaculture Fund, *Stock distributions in Atlantic Herring-tracking populations with DNA (HERMIX, project no EFMVB-23-0033)*
PI: Dorte Bekkevold (DTU Aqua).
Role: Named key project participant in proposal.

2024 European Maritime, Fisheries and Aquaculture Fund, *Length-based state-space assessment model to assess stocks with lack of accurate age estimation (LenSAM, project no EFMVB-23-0027)*
PI: Anders Nielsen (DTU Aqua).
Role: Named key project participant in proposal.

2024 European Maritime, Fisheries and Aquaculture Fund, *Improving stock assessment and sustainable management of marine fisheries through integrated genetic data collection (GenDC)*
PI: Marie Storr-Paulsen (DTU Aqua).
Role: Named key project participant in proposal.

2020 European Maritime Fisheries Fund, *Hasteindsats til beregning af bestandsstørrelser og referencepunkter ved massive dataudfald (BREFdata, project no 33113-B-20-168)*
PI: Anders Nielsen (DTU Aqua). Total DTU Aqua budget: DKK 2,747,141
Role: Work package leader (shared with Vanessa Trijoulet)

2019 European Maritime Fisheries Fund, *Pelagiske arter (PELA, project no 33113-B-19-154)*
PI: Gitte Høj Jensen (DTU Aqua). Total DTU Aqua budget: DKK 3,099,985
Role: Named key project participant in proposal.

2019 European Maritime Fisheries Fund, *Forvaltning af blandende torskebestande i overgangzonen mellem Nordsø og Østersø: Hvordan kan det gøres mest effektivt? (FABBIO, project no 33113-B-19-140)*
PI: Karin Hüssy (DTU Aqua). Total DTU Aqua budget: DKK 2,747,141
Role: Named key project participant in proposal.

2017 European Maritime Fisheries Fund, *Forbedring af sildebestandsvurdering og -fremskrivning der udnytter forbedret fiskeridata og biologisk information*

PI: Casper W. Berg (DTU Aqua).
Role: Named key project participant in proposal.

2016 Personal travel grant for research stay, Knud Højgaards Fond, DKK 15,000

2015 Personal travel grant for research stay, Oticon Fonden, DKK 15,500

2015 Personal travel grant for research stay, Christian og Ottilia Brorsons Rejselegat, DKK 15,000

2015 Personal travel grant for research stay, Augustinus Fonden, DKK 17,500

External Examining

2021 External PhD thesis examiner, Department of Statistics, The University of Auckland, New Zealand.

Editorial service

2023/08 - Associate Editor, Canadian Journal of Fisheries and Aquatic Sciences

2022/08 -
2023/07 Assistant Editor, Canadian Journal of Fisheries and Aquatic Sciences

Reviews

2024	Reviewer for: Animal Biotelemetry (1), Canadian Journal of Fisheries and Aquatic Sciences (2), Fisheries Research (1), Marine Pollution Bulletin (2), Zoological Research (1)
2023	Reviewer for: Fisheries Management and Ecology (1), Fisheries Research (3), Science of the Total Environment (1)
2022	Grant reviewer for: "Swiss Data Science Center, Collaborative Data Science Projects, 6th Call for Projects" Reviewer for: Annals of Applied Statistics (1), Canadian Journal of Fisheries and Aquatic Sciences (1), Fisheries Research (1), Freshwater Science (1), ICES Journal of Marine Science (2), Methods in Ecology and Evolution (1), Science of the Total Environment (1)
2021	Grant reviewer for: "Swiss Data Science Center, Collaborative Data Science Projects, Fifth Call for Projects" Reviewer for: Canadian Journal of Fisheries and Aquatic Sciences (1), Fish and Fisheries (2), ICES Journal of Marine Science (1), Journal of Theoretical Biology (2), Methods in Ecology and Evolution (1), Regional Studies in Marine Science (1), Scientific Reports (1)
2020	Reviewer for: Fish and Fisheries (1), Fisheries Research (1), ICES Journal of Marine Science (1), Statistical Modelling (1)
2019	Reviewer for: Canadian Journal of Fisheries and Aquatic Sciences (1), Fish and Fisheries (1), Methods in Ecology and Evolution (1)
2016	Reviewer for: Annals of Applied Statistics (1)

Open source software

argosTrack	Fit Movement Models to Argos Data for Marine Animals, R package. https://github.com/calbertsen/argosTrack
covafillr	Local Polynomial Regression of State Dependent Covariates in State-Space Models, R package. https://cran.r-project.org/package=covafillr
GrAD	Graph Based Reverse-Mode Automatic Differentiation, C++ library. https://github.com/calbertsen/simple_AD
multiStock…	(multiStockassessment) Fitting Multiple State-Space Assessment Models, R package. https://github.com/calbertsen/multi_SAM
otoclass	Otolith Classification and Proportion Estimation, R package. https://github.com/calbertsen/otoclass

Professional Development Courses

2021	RDTU - Competence development in research-based advice, Technical University of Denmark.
2021	University Teacher Training Programme at DTU, Module 1, Teaching Lab, Technical University of Denmark.
2021	Project Management for Researchers at DTU, Technical University of Denmark.
2018	Introduction to the Danish funding landscape and Horizon 2020, Technical University of Denmark.

Certifications

2013	SAS Certified Advanced Programmer for SAS 9, SAS Institute
2013	SAS Certified Base Programmer for SAS 9, SAS Institute

Professional memberships

DSTS	Member of The Danish Society for Theoretical Statistics
ADMB	Member of The ADMB Foundation