

Name: J. Rasmus Nielsen
Date of birth: 2nd March 1965
Citizenship: Danish

University education, evaluations, and degrees held

Doctor of Science (Dr.sc.) / PhD, Wageningen University (WUR), NL.....2015
Professor qualification evaluation DTU, positive external/international evaluation.....2014 & 2021
Lecturer MSK Level 4 (Associate Professor, external evaluation) (MSK: With Special Qualifications), DTU....2010-11
Senior Scientist (external evaluation) DIFRES / DTU Aqua.....2001
Cand. scient. et mag. art. in Biology and Nordic Philology, University of Copenhagen (KU).....1992
Mag. art., Subsidiary Subject in Nordic Philology, KU, (Language, Literature, Communication).....1992
Cand. scient. in Biology, KU, specialised in Fisheries Biology and Population Dynamics1991
Graduate Certificate as Research Fellow in Renewable Resources, MacDonald College, McGill University.....1990
Bachelor in Biology, University of Copenhagen (KU)1989

Ph.D. and Post Graduate Courses: Dutch Doctor of Science Degree / PhD, Wageningen University (WUR, NL) Jan. 2015. Possess a long row of graduate and PhD courses from 1990-present at different universities and institutes: Education in University Teaching at DTU (UDTU Courses Modules 1-4) with Diploma (2012-13); Innovation Pedagogics Course DTU (2013); Individual Coaching Course in Research Leadership with Diploma as Head of Research Section (2006); ATLANTIS Ecosystem Model Course (ICES/EU-FP7-Vectors 2011); FLR Modelling and Assessment Courses (ICES, 2007, DTU 2011-2013); GIS Courses (DM 1995, DTU 2007); CTD Hydrographical Course with Diploma (DANA, 1998); Statistical Design Planning Course (DTU 1993); Presentation of Papers in English (DM, 1995); Courses in Assessment Methods (GF-CPH 1988; Nordic Council of Ministers-Greenland 1992); Fisheries Gear Technology Courses (DIFTA 1991, GF-Cph 1991); Fish and Fish Nutrition in Marine Systems (Nordic Council of Ministers Course, Iceland 1989); Graduate Courses in Renewable Resources (as Research Fellow) at MacDonald College, McGill University and Fisheries and Oceans (DFO), Montreal, Canada (1990-91).

Positions held

1. *Professor Full, Research Coordinator. & Head of Study, Fish. Man. & Fisheries Eng., DTU Aqua*..... 2022-
2. *Professor Full, Research Coordinator, Fisheries Management, DTU Aqua*.....2021-2022
3. *Professor MSO, Research Coordinator, Fisheries Management, DTU Aqua*.....2015-2021
4. *Research Coordinator and Senior Scientist MSK, Fisheries Management Division, DTU Aqua*.....2013-2014
5. *Head of Research Section and Senior Scientist MSK, Management Systems Section, DTU Aqua*2007-2013
6. *Research Coordinator and Senior Scientist, Fisheries Management Section, DTU Aqua/DIFRES*.....2001-2007
7. *Technical Advisor, Research Inst. Mar. Products, Vietnam; Danish Government (DANIDA) Project*.....1996-1997
8. *Research scientist, DIFRES, North Sea Centre, Hirtshals and Charlottenlund Castle*.....1992-2001
9. *Research scientist, Greenland Fisheries Research Institute (GF), Copenhagen*.....1992
10. *Graduate student employment, (BSc) fisheries biology, Greenland Fisheries Research Institute*.....1988-1991

Scientific focus and experience

Professor, Research Coordinator, and Head of Research Section, Fisheries Management and Management Systems, and Head of Study Diploma Engineer Fisheries Technology, DTU Aqua. He is author of 70 peer reviewed publications (and additionally 12 papers submitted, in review or in submission or in final prep) and totally of 249 publications. Citations: 1477 (Web of Science), 2301 (Research Gate). H-Index: 22 (Web of Science), 28 (Research Gate).

Research: He is specialized in fisheries science. His main research is in fish population and fisheries dynamics, stock assessment, and fisheries management and advice including bio-economic fisheries management evaluation tools, integrated ecosystem and fisheries models, fisheries hydro-acoustic methods, and research survey design / analysis methods. Important working areas are research in spatial population dynamics, fisheries dynamics and interactions with the environment and other marine activities, survey and fish detection methods, fisheries management methods and tools, stock assessment (incl. data limited stocks), and research based fisheries management advice. This includes research in main temperate, tropical and arctic marine and fisheries systems (North Sea, Baltic Sea, South China Sea (Vietnam), Arabian Gulf, North Atlantic (Greenland/Canada) Waters).

Projects: He has been main coordinator, contractor and initiative taker to many large international and national research projects, e.g. EU-FP6-EFIMAS (int. coordinator; www.efimas-project.org), EU-Tender-ISDBITS (int. coordinator), EU-FP5-EASE (int. co-coordinator), International Femern Belt Fish and Fisheries Science Provision Project (int. coordinator), two Nordic Council of Ministers Research Projects (int. coordinator), The Sound Bridge Fishery Evaluation Project (coordinator), EMFF Marine Spatial Planning Tools MSPTOOLS Project (coordinator), EMFF Management of Data Limited Stocks ManDaLis Project (coordinator), DFFE Herring Selection Project (coordinator),

and Quality Assessment on North Stream 2 EIA Contract (coordinator). He is national responsible, steering group member, and initiative taker of several other international and national research projects incl. work package, case study and/or task leader (e.g. EU-H2020-MEESO, EU-H2020-CERES, EU-FP7-BENTHIS, EU-FP7-SOCIOEC, Danish Strategic Research Council Project IMAGE/MAFIA, Saudi Arabian Fisheries Science Project I, EU-FP6-PKFM, EU-FP6-CEVIS, and several EU MARE/EMFF/EASME Tender Projects e.g. EU-Lot 1 Protecting bycaught species in mixed fisheries (PROBYFISH), EU-Lot 1 Scientific Support to the High Seas Fisheries in the Central Arctic Ocean (EFICA), EU-Lot2 Data Poor Stocks in Mixed Fisheries (DRUMFISH), EU-HELCOM ACTION, EU-HELCOM BalticBOOST, EU-Lot2-VMS-Logbook-Coupling, EU-Lot5-Review-BioEconomic-Models, EU-Lot1-EVARES-Survey-Evaluation, EMFF NORDFO, and EMFF RoMA and DFFE IMPSEL Project. He is responsible and initiative taker for research fund raising amounting >140 million DKK (>19 million EURO).

Advice: He has long international advisory experience; Since 1997 responsible for the ICES WGNSSK North Sea Norway pout stock assessment and benchmarking; co-chair of ICES WGECON (ICES Fisheries Economics Working Group, 2018-); co-chair of ICES WGIMM / SGIMM (Integrated Management Modelling, 2011-2018); alternate national ICES SCICOM Member (2010-); co-chair of ICES IBP Pout (2012); chair of ICES RGANW (2010); chair of ICES AGNOP (2007); and national member of the former ICES Resource Management Committee (RMC, 2006-2010). Member of several ICES Benchmark Assessment Working Groups. Appointed to several EU STECF Management Evaluation Working Groups (STECF SGMOS/EWG) and member of other advisory groups (ICES WGBIFS (1999-2004), ICES WGFS (2004-08), ICES WKFBI (2016), ICES WKBENTH (2017), ICES WKLIFE V (2015). For more than a year scientific advisor in Vietnam, joint Danish Government (DANIDA) & Vietnam Government Development Aid & Research Project. He is national responsible for an advisory research project assessing the data limited Saudi Arabian fisheries resources in the (tropical) Arabian Gulf (2014-16). He has produced a long row of advisory notes to national authorities, and has extensive collaboration with national commercial fisheries organizations and international fishery advisory bodies (ICES, NAFO, FAO, Regional ACs).

Key note: He has among other been invited speaker by EU DGMARE at the EU-China-Blue-Growth-Event Bruxelles June 2017 <https://webgate.ec.europa.eu/maritimeforum/en/node/4065>, invited co-chair and speaker of Session 7A “Ecological-Economic Modelling” at the World Fisheries Conference (WFC) Edinburgh Scotland 2012, invited Moderator of Session 507/21B “Economic-Ecological Models for EBFM” at IIFET Conference Dar-Es-Salaam Tanzania 2012, co-chair of the Session 502 “Making Integrated Ecological-Economic Models Useful” at IIFET Conference Brisbane Australia 2014, chair of Open Session on „Tools for data poor stocks in mixed, small scale and indigenous fisheries“ at the IIFET Conference Seattle USA 2018, invited key note speaker at the bi-annual Danish Sea Research Meeting Roskilde University January 2013, co-chair of and initiative taker to Theme Session M “Social, economic and ecological impact assessment across marine sectors“ at the ICES Annual Science Conference, Copenhagen, 2015, and invited speaker at the W.&A. de Nottbeck Foundation and KONEEN SÄÄTIÖ International Workshop on „Baltic Sea Ecosystem Models and their Application for Management“ Tvärminne, SF Sept. 2015.

Editorial duties and referee work: Appointed member of the IIFET Scientific Board (2019-). Reviewer of research projects for the Estonian and Faroese Research Councils. Editorial work for Elsevier Publishers (2 Books). Reviewer for 8 different highly recognized international scientific peer reviewed journals and publishers (books) incl. Fish & Fisheries. He has been reviewer of a very long row of scientific journal papers, book chapters, and several international research projects. He has been member of several senior scientist and scientist review and evaluation boards and PhD Evaluation Boards, among other as chair of 3 PhD evaluation boards.

Teaching: He is DTU Aqua senior representative in the PhD Committee for DTU Life Sciences and DTU Aqua (2015-2022). He has been supervisor for several PhD candidates (9) of which he has been main supervisor for 5, PostDocs (7) of which he has been main supervisor for 3, ERASMUS Candidates (3 as main supervisor) and Master thesis students (7) of which he has been main supervisor for 6. He is DTU Study Leader of the Diploma Engineer Education in Fisheries Technology (Fisheries Engineer, 2022-). He is university course leader, initiative taker, and responsible for the DTU 25312 Fisheries Systems – Management and Modelling Course, course leader and main responsible for the DTU 25318 Aquatic Ecosystem Management, co-responsible and co-course leader for the DTU 25107 General Engineering Bachelor Course in Fisheries and Aquaculture (2020-21), course leader for several Specialized Courses at DTU in Marine Spatial Planning, Fisheries Systems, Benthic Impact of Fisheries, Survey Monitoring, Fisheries Acoustics, and teacher and module responsible in several other university courses under DTU, KU, AAU, RIMP (e.g. the DTU 25307 Fisheries Ecology and Assessment Course, DTU 25309 Design of Surveys and Monitoring Systems Course, and the Aalborg University (AAU) Management of Nature & Nature Resources & Environment for Graduate Biology and Geography Students). Not least, he is a main initiative taker and co-responsible for developing the whole DTU Fisheries Diploma Engineer Education in Greenland, and hereunder course developer and main course responsible for more than 60 ECTS yearly courses incl. the courses 25202 Fisheries Engineer Composite Course I (20 ECTS), 25201 Introduction

to Fisheries Engineer (2,5 ECTS), 25203 Fisheries Engineer Composite Course II (15 ECTS), 25204 Fisheries Engineer Composite Course III (20 ECTS), and 25212 Fisheries Engineer Practice Project (2,5 ECTS). From 2022 he is Head of Study for this Education. He is member of the Advisory Board for Aquatic Science and Technology Master Education at DTU Aqua (2019-present). He is member of the Danish University Biology Censor Corps. He has been steering Group member of the FAME Research School (FISHNET), and has been Advisory Board Member for the IFM Institute and Centre at Aalborg University (2012-18). He is international and national Research Project leader, Scientific Expert and Key Consultant and Evaluator for Environmental Impact Assessment and Science Provision Projects to A/S Øresund and A/S Femern Belt under the Danish Ministry of Transport concerning establishment of the Fixed Links in the Sound between DK and S (2003-08) and in the Femern Belt between DK and D (2009-14), and in Quality Assessment of EIA for North Stream 2 (2019-20). He is main developer of and reporter to the www.efimas-project.org home page and the associated DocuWiki.

Linguistic skills: Danish and English: Fluently in speech and writing; German and French: Moderate in speech and writing; Norwegian and Swedish: Moderate in speech and writing.

Publications, Totally: 249; Scientific Peer Reviewed Publications: 70; Scientific Peer Reviewed papers submitted, in submission or in advanced prep: 12; Scientific Conference Proceedings, Popular Scientific Publications, and Reports: 167; Additionally a very long row of EU Research Project Deliverables and Interim Reports, ICES Assessment Working Group Reports, ICES Working Group and Study Group Reports, EU STECF SGMOS & EWG Advisory Reports, DANIDA Project Advisory Reports to the Vietnamese Government and Authorities, Project Advisory Reports to the Saudi Arabian Government and KFUPM University, and production of many Official Advisory Notes to the Danish Ministries of Environment, Food and Fisheries.

1. Nielsen, J.R., Vastenhoud, B.J.M., Bossier, S., Møhlenberg, F., Christensen, A., Diekman, R., Dinesen, G.E., Eigaard, O.R., Gogina, M., Zettler, M.L., Darr, A., & Bastardie, F. 2022/23. Impacts of habitat-specific benthic fishing compared to those of short-term induced variability by environmental drivers in a turbulent Baltic Sea environment. **Fisheries Research** 257. <https://doi.org/10.1016/j.fishres.2022.106514>
2. Bastardie F, Feary DA, Brunel T, Kell LT, Döring R, Metz S, Eigaard OR, Basurko OC, Bartolino V, Bentley J, Berges B, Bossier S, Brooks ME, Caballero A, Citores L, Daskalov G, Depestele J, Gabiña G, Aranda M, Hamon KG, Hidalgo M, Katsanevakis S, Kempf A, Kühn B, Nielsen JR, Püts M, Taylor M, Triantaphyllidis G, Tsagarakis K, Urtizberea A, van Hoof L and van Vlasselaer J. 2022. Ten lessons on the resilience of the EU common fisheries policy towards climate change and fuel efficiency – A call for adaptive, flexible and wellinformed fisheries management. **Front. Mar. Sci.** 9: 947150. <https://doi.org/10.3389/fmars.2022.947150>
3. Paoletti, S.*, Nielsen, J.R.*, Sparrevohn, C.R., Bastardie, F., and Vastenhoud, B. 2021. Potential for mesopelagic fishery compared to economy and fisheries dynamics in current large scale Danish pelagic fishery? **Front. Mar. Sci.** 08:720897: <https://doi.org/10.3389/fmars.2021.720897> (*Authorship equal). (**Main ERASMUS Candidate Supervisor & Main PhD Supervisor**).
4. Mildenerger, T.K., Berg, C.W., Kokkalis, A., Hordyk, A.R., Wetzel, C., Jacobsen, N.S., Punt, A.E., and Nielsen, J.R. 2021. Implementing the precautionary approach into fisheries management: Biomass reference points and uncertainty buffers. **Fish and Fisheries**, 00, 1–20. <https://doi.org/10.1111/faf.12599>. (**Main PhD Supervisor**).
5. Rufener, M.C., Kristensen, K., Nielsen J.R., and Bastardie, F. 2021. Bridging the gap between commercial fisheries and survey data to model the spatio-temporal dynamics of marine species. **Ecological Applications**: <http://doi.org/10.1002/eap.2453>; <https://esajournals.onlinelibrary.wiley.com/doi/10.1002/eap.2453>
6. Bossier, S., Nielsen, J.R., Almroth Rosell, E., Höglund, A., Bastardie, F., Neuenfeldt, S., Wählström, I., and Christensen, A. 2021. Integrated ecosystem impacts of climate change and eutrophication on main Baltic fishery resources. **ECOMOD** 453 [109609] <https://doi.org/10.1016/j.ecolmodel.2021.109609> <https://youtu.be/G4JE3W1K7vk> (**Main PhD Supervisor**).
7. Bossier, S, Nielsen, J.R. and Neuenfeldt, S. 2020. Exploring trophic interactions and cascades in the Baltic Sea using a complex end-to-end ecosystem model with extensive food web integration. **J. Ecol. Modelling** **ECOMOD** 436 [109281] <https://doi.org/10.1016/j.ecolmodel.2020.109281>. (**Main PhD Supervisor**).
8. Bastardie, F., Danto, J., Rufener, M.-C., van Denderen, D., Eigaard, O.R., Dinesen, G.E., and Nielsen, J.R. 2020. Reducing fisheries impacts on the seafloor: a bio-economic evaluation of policy strategies for improving sustainability in the Baltic Sea. **Fisheries Research** 230 [105681] <https://doi.org/10.1016/j.fishres.2020.105681>.
9. Rijnsdorp, A.D., Hiddink, J.G., van Denderen, P.D., Hintzen, N.T., Eigaard, O.R., Valanko, S., Bastardie, F., Bolam, S., Boulcot, P., Egekvist, J., Garcia, C., van Hoey, G., Jonsson, P., Laffargue, P., Nielsen, J.R., Piet, G.J., Sköld, M., and van Kooten, T. 2020. Different bottom trawl fisheries have a differential impact on the

- status of the North Sea seafloor habitats. *ICES J. Mar. Sci.* 77(5): 1772-1786 <http://dx.doi.org/10.1093/icesjms/fsaa050>
10. Mildenberger, T.K., Berg, C.W., Pedersen, M.W., Kokkalis, A., and Nielsen J.R. 2020 (2019). Time-variant productivity in biomass dynamics models. *ICES J. Mar. Sci.* 77(1): 174–187. <https://doi.org/10.1093/icesjms/fsz154>. (*Main PhD Supervisor*).
 11. Bigné, M.*, Nielsen, J.R.*¹, and Bastardie, F. 2019 (2018). Opening of the Norway pout box: will it change the ecological impacts of the North Sea Norway pout fishery? *ICES J. Mar. Sci.* 76 (1): 136-152, <http://dx.doi.org/10.1093/icesjms/fsv121> (**Authorship equal.* ¹*Corresponding author*). (*Main MSc Supervisor*).
 12. Malvarosa, L., Murillas, A., Lehuta, S., Nielsen, J.R., Macher, C., Goti-Aralucea, L., Motova, A., Doering, R., Haraldson, G., Accadia, P., Hamon, K.G., Bastardie, F., Maravelias, C.D., Mardle, S., Thøgersen, Th. 2019. Sustainability Impact Assessment (SIA) in fisheries. Implementation in EU fishing regions. *Marine Policy* 101: 63-79, *JMPO_2017_725_R2*, <https://doi.org/10.1016/j.marpol.2018.11.039>.
 13. Nielsen J.R., Thunberg E., Holland D. S., et al. 2018. Integrated ecological-economic fisheries models – Evaluation, review and challenges for implementation. *Fish and Fisheries* 19(1): 1-29, <https://doi.org/10.1111/faf.12232>.
 14. Ross, S.D., Nielsen, J.R.*, Gislason, H., and Andersen, N.G. 2018. Growth and food consumption of whiting *Merlangius merlangus*. *J. Fish Biol.* 93(2): 334-343 <https://doi.org/10.1111/jfb.13763> (**Corresponding author*). (*Main PhD Supervisor*).
 15. Bossier, S.*, Palacz, A.P.*, Nielsen, J.R.*, Christensen, A., Hoff, A., Maar, M., Gislason, H., Bastardie, F., Gorton, R., and Fulton, E.A. 2018. The Baltic Sea Atlantis: An integrated end-to-end modelling framework evaluating ecosystem-wide effects of human-induced pressures. *PLoS ONE* 13(7): e0199168. <https://doi.org/10.1371/journal.pone.0199168> (**Authorship equal*). (*Main PhD Supervisor*).
 16. Soma, K., Nielsen J.R., Papadopoulou N., Polet H., Zengin M., Smith, C.J., Eigaard, O., Sala, A., Bonanomi, S., vd Burg S., Piet G.J., Buisman E., and Gümus, A. 2018. Stakeholder perceptions in fisheries management – Sectors with benthic impacts. *Marine Policy* 92: 73-85, <https://doi.org/10.1016/j.marpol.2018.02.019>.
 17. Schreiber Plet-Hansen, K., Larsen, E., Mortensen, L.O., Nielsen, J.R., and Ulrich, C. 2018. Unravelling the scientific potential of high resolution fishery data. *Aquatic Living Resources* 31 (24): 14 pp, <https://doi.org/10.1051/alr/2018016>.
 18. Janßen H., Bastardie F., Eero M., Hamon K.G., Hinrichsen H.H., Marchal P., Nielsen J.R., Le Pape O., Schulze T., Simons S., Teal L.R., and Tidd A. 2018 (2017). Integration of fisheries into marine spatial planning: Quo vadis? *Estuarine, Coastal and Shelf Science* 201: 105-113 <http://dx.doi.org/10.1016/j.ecss.2017.01.003>
 19. Bastardie, F., Nielsen, J. R., Eero, M., Fuga, F., and Rindorf, A. 2017a. Effects of changes in stock productivity and mixing on sustainable fishing and economic viability. *ICES J. Mar. Sci.* 74(2): 535-551. <https://doi.org/10.1093/icesjms/fsw083>.
 20. Bastardie, F., Angelini, S., Bolognini, L., Manfredi, C., Martinelli, M., Santojanni, A., Scarcella, G., Nielsen, J.R., Grati, F., 2017b. Spatial planning for fisheries in the Northern Adriatic: working towards viable and sustainable fishing. *Ecosphere* 8(2), 26 pp. <https://doi.org/10.1002/ecs2.1696>.
 21. Eigaard O.R., Bastardie F., Hintzen N., Buhl-Mortensen L., Buhl-Mortensen P., Catarino R., Dinesen G.E., Egekvist, J., Fock H., Geitner K., Gerritsen H., Gonzalez M.M., Jonsson P., Kavadas S., Lafargue P., Lundy M., Mirelis G.G., Nielsen J.R., Papadopoulou N., Posen P., Pulcinella J., Russo T., Sala A., Silva C., Smith C., Vanelslander B., Rijnsdorp, A.D. 2017. The footprint of bottom trawling in European waters: distribution, intensity and seabed integrity. *ICES J. Mar. Sci.* 74(3): 847-865. <https://doi.org/10.1093/icesjms/fsw194>.
 22. Hornborg, S., Ulmestrand, M., Sköld, M., Jonsson, P., Valentinsson, D., Eigaard, O.R., Feekings, J.P., Nielsen, J.R., Bastardie, F., and Lövgren, J. 2017. New policies may call for new approaches: the case of the Swedish Norway lobster (*Nephrops norvegicus*) fisheries in the Kattegat and Skagerrak. *ICES J. Mar. Sci.* 74(1): 134-145. <https://doi.org/10.1093/icesjms/fsw153>.
 23. Marchal, P., Andersen, Aranda, M., Fitzpatrick, M., J.L., Goti, L., Guyader, O., Haraldsson, G., Hatcher, A., Hegland, T.J., Le Floch, P., Macher, C., Malvarosa, L., Maravelias, C., Mardle, S., Murillas, A., Nielsen, J.R., Sabatella, R., Thøgersen, T., and Ulrich, C. 2016. A comparative review of fisheries management experiences in the European Union and other countries worldwide: Iceland, Australia, New Zealand. *Fish and Fisheries* 17 (3): 803-824 <http://dx.doi.org/10.1111/faf.12147>.
 24. Gascuel, D., Coll, M., Fox, C., Guénette, S., Guittou, J., Kenny, A., Knittweis, L., Nielsen, J.R., Piet, G., Raid, T., Travers-Trolet, M., and Shephard, S. 2016. Fishing impact and environmental status in European seas: a diagnosis from stock assessments and ecosystem indicators. *Fish and Fisheries* 17(1): 31-55. <https://dx.doi.org/10.1111/faf.12090> (2014).

25. Ross, S.D., Gislason, H., Andersen, N.G., Lewy, P., and Nielsen, J.R. 2016. The diet of whiting (*Merlangius merlangus*) in the western Baltic Sea. **J. Fish. Biol.** 88(5): 1965-1988. <https://doi.org/10.1111/jfb.12959>. (**Main PhD Supervisor**).
26. Rijnsdorp, A. D., Bastardie, F., Bolam, S. G., Buhl-Mortensen, L., Eigaard, O. R., Hamon, K. G. Hiddink, J. G., Hintzen, N. T., Ivanovic, A., Kenny, A., Laffargue, P., Nielsen, J. R., O'Neill, F. G., Piet, G. J., Polet, H., Sala, A., Smith, C., van Denderen, P. D., van Kooten, T., and Zengin, M. 2016. Towards a framework for the quantitative assessment of trawling impact on the seabed and benthic ecosystem. **ICES J. Mar. Sci** 73 (Suppl. 1): 127–138. <https://doi.org/10.1093/icesjms/fsv207>.
27. Eigaard, O.R., Barstardie, F., Breen, M., Dinesen, G., Hintzen, N., Laffargue, P., Mortensen, L.O., Nielsen, J.R., Nilsson, H.C., O'Neill, F.G., Polet, H., Reid, D., Sala, A., Sköld, M., Smith, C., Sørensen, T.K., Tully, O., Zengin, M. and Rijnsdorp, A. 2016. Estimating seabed pressure from demersal trawls, seines and dredges based on gear design and dimensions. **ICES J. Mar. Sci.** 73 (Suppl. 1): 27-43. <https://doi.org/10.1093/icesjms/fsv099>.
28. Nielsen, J.R. 2015. Methods for integrated use of fisheries research survey information in understanding marine fish population ecology and better management advice. **Monograph. Dutch Dr. Sc. and PhD Thesis, Wageningen University, Wageningen, NL, ISBN 978-94-6257-255-3, 187 pp.** <https://orbit.dtu.dk/en/publications/methods-for-integrated-use-of-fisheries-research-survey-informati>; <https://core.ac.uk/download/pdf/29207336.pdf>
29. Pecuchet, L., Nielsen, J.R., and Christensen, A. 2015. Impacts of the local environment on recruitment – a comparative study of North and Baltic Seas fish stocks. **ICES J. Mar. Sci.** 72 (5): 1323-1335. <https://doi.org/10.1093/icesjms/fsv220>. (**Main MSc Supervisor**).
30. Bastardie, F., Nielsen, J.R., Eigaard O., Fock O.H., Jonsson, P., and Bartolino V. 2015. Competition for marine space: modelling the Baltic Sea fisheries and effort displacement under spatial restrictions. **ICES J. Mar. Sci.** 72 (3): 824-840 <https://doi.org/10.1093/icesjms/fsv215>.
31. Nielsen, J.R.*¹, Kristensen, K.*², Lewy, P., and Bastardie, F. 2014. A statistical model for estimation of fish density including correlation in size, space, time and between species from research survey data. **PLoS ONE** 9(6): e99151, p. 1-15. <https://doi.org/10.1371/journal.pone.0099151>. (PONE-D-13-36261R2. ***Authorship equal**; ¹**Corresponding author**).
32. Miethe, T., Bastardie, F., von Dorrien, C., and Nielsen, J.R. 2014. Supplementing impact assessment of closure to fisheries with high resolution spatial analysis of effort and landings in the Western Baltic Sea **Fish. Res.** 157: 170-179. <https://doi.org/10.1016/j.fishres.2014.04.004>.
33. Bastardie, F., Nielsen J.R, and Miethe, T. 2014. DISPLACE: a Dynamic, individual-based model for spatial fishing planning and effort displacement – integrating underlying fish population models. **Can. J. Fish. Aquat. Sci.** 71: 1-21. <https://doi.org/10.1139/cjfas-2013-0126>.
34. Nielsen, J.R.*¹, Lundgren, B., Kristensen, K, and F. Bastardie. 2013. Localization of nursery areas based on comparative analyses of horizontal and vertical distribution patterns of juvenile Baltic cod. **PLoS ONE** 8 (8): e70668, p. 1-20. <https://doi.org/10.1371/journal.pone.0070668>. (PONE-D-13-06442R. ***Corresponding author**).
35. Bastardie, F., Nielsen, J.R., Andersen, B.S., and Eigaard, O. 2013. Integrating individual trip planning in energy efficiency – Building decision tree models for Danish fisheries. **Fish. Res.** 143: 119-130. <https://doi.org/10.1016/j.fishres.2013.01.018>.
36. Nielsen, J.R.*¹, Lambert, G.*², Bastardie, F., Sparholt, H., and M. Vinther. 2012a. Do Norway pout (*Trisopterus esmarkii*) die from spawning stress? Mortality of Norway pout in relation to growth, maturity and density in the North Sea, Skagerrak and Kattegat. **ICES J. Mar. Sci.** 69(2): 197-207. <https://doi.org/10.1093/icesjms/fss001>. (***Authorship equal**; ¹**Corresponding author**).
37. Ulrich, C., Wilson, D.C., Nielsen, J.R., Bastardie, F., Reeves, S., Andersen, B.S., and Eigaard, O.R. 2012. Challenges and opportunities for fleet- and métier-based approaches for fisheries management under the European Common Fishery Policy. **Ocean & Coastal Management** 70: 38-47. <http://dx.doi.org/10.1016/j.ocecoaman.2012.06.002>
38. Eigaard, O., Hermann, B., and Nielsen, J.R. 2012. Influence of grid orientation and time of day in a small meshed trawl fishery for Norway pout (*Trisopterus esmarkii*). **Aquat. Liv. Res.** 25: 15-26. <https://doi.org/10.1051/alr/2011152>.
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