

## CV – J. Rasmus Nielsen

Year of birth: 1965

### Degrees

- Doctor of Science (dr. scient.) / PhD, Wageningen University (WUR), Netherlands (2015).
- Individual Leader Coaching Diploma in Research Leadership as Head of Section, DTU, Denmark (2006-07).
- Senior scientist external evaluation (2001) & Professor qualification evaluation DTU, Denmark (2014).
- MSc, Biology (1991) & Cand. scient. et mag. art. in Biology and Nordic Philology (1992), Univ. Copenhagen.
- Graduate Studies Certificate, Renewable Resources, MacDonald College, McGill University, Canada (1990).
- BSc, Biology, University of Copenhagen, Denmark (1989).

### Positions

- Professor & Research Coordinator in Fisheries Management, DTU Aqua, Denmark (2015-present).
- Head of Research Section and Senior Scientist, Section for Management Systems, DTU Aqua (2007-2013).
- Research Coordinator and Senior Scientist, Fisheries Management Section, DIFRES/ DTU Aqua (2001-07; 2013-14).
- Technical Advisor, Research Inst. Marine Products, Vietnam, Danish Government (DANIDA) Aid Project (1996-97).
- Research Scientist, Danish Institute for Fisheries Research (DIFRES) (1992-2001).
- Research Scientist, Greenland Fisheries Research Institute (GF), Copenhagen, Denmark (1992; Grad.Stud. fr. 1988).

### Research area

Fisheries biology, fish population and fisheries dynamics, stock assessment and fisheries management and advice incl. bio-economic fisheries management evaluation tools, ecosystem models and marine spatial planning tools, data limited stock assessment methods, fisheries hydro-acoustic methods, and research survey design/detection/ analysis methods.

### Distinctions and awards

International Research Fellow and Scholarship University of Copenhagen for external graduate research enrollment at MacDonald College, McGill University, and Fisheries and Oceans (DFO Canada), Montreal, Canada (1990-1991).

### Memberships of scientific committees, 2011-present

Alt. National Member ICES SCICOM (2010-); Advisory Board IFM Aalborg Univ. (2012-); Co-Chair ICES WGECON (2018-) & ICES WGIMM (2011-) & ICES IBP Pout 2012 & HELCOM BalticBOOST 2016; Co-chair Session 7 World Fish. Conf. 2012; Session Moderator IIFET 2012; Session Key Note IIFET 2014 & Danish Sea Scient. Conf. 2013; Session Chair ICES ASC 2015; Session Chair IIFET 2018; Appointed expert to many EU STECF Advisory Working Groups.

### Review, 2011-present

Reviewer for Faroese and Estonian Research Councils. Editorial work for Elsevier Publishers (2 Books). Reviewer for 8 high ranking international scientific journals and publishers (books). Reviewed many scientific journal papers, book chapters, and intern. research projects. Member and chair of many Sen. Scientist, Scientist, and PhD Assessment Boards.

**ISI journal publications:** 54. **Other peer reviewed publications:** 3. **Books:** 0. **Book chapters:** 3. **Citations:** 1205. **H-index:** 22. **Reports:** 58. **International conferences - Contributions as first author:** 23. **Invited:** 10. **Organizing role:** 10.

### Advisory tasks, 2011-present

Extensive international and national fisheries advisory experience. Responsible f. ICES WGNSSK Norway pout stock assessment (1997-) & Chair/Co-Chair of many ICES Advisory & Scientific Working Groups (e.g. WGECON, WGIMM, AGNOP, RGNW) and Member of others (e.g. WGBIFS, WKLIFE); Appointed special expert to many EU STECF Man. Advice WGs (2009-); Project leader, scient. expert and key consultant Environmental Impact Assessment & Science Provision for large marine constructions: e.g. Fixed Femern Belt Link betw. DK-D (2009-13), Fixed Sound Link betw. DK-S (1993-2001) & North Stream 2 Pipeline D-DK-S-RUS. Advisory expert in tropical fisheries management & stock assessment: Vietnam (DANIDA 1996-98) & Saudi Arabian Data Limited Stock Assessment (2015-17); Produced a long row of International and National Advisory Reports and Notes.

### Educational tasks, 2011-present

DTU Aqua Senior member DTU Life Sciences PhD Committee (2015-). University MSc and PhD course leader and responsible: Aquatic Ecosystem Management DTU 25318; Fisheries Systems DTU 25312; Fisheries & Aquaculture DTU 25107; 5 Specialized Courses DTU; Teacher in several other university courses at DTU, AAU, and KU; Full Professional University Teaching Education DTU (UDTU Modules 1-4) with Diploma.

### Supervision, 2011-present

**PhD students:** 3 (main supervisor); 4 (co-supervisor). **Master students:** 6 (main supervisor); 3 (co-supervisor). **Postdocs:** 5 (main supervisor).

### Grants, 2011-present

Responsible and initiative taker for research fund raising: >150 mill DKK (>20 mill EURO). International Project Coordinator: EU-FP6-EFIMAS, EU-FP5-EASE (co-coord.), EU-ISDBITS, Femern Belt Fish and Fisheries Science Provision Project., 2 Nordic Council of Ministers Proj's., Sound Bridge Fishery Evaluation Project; National Coordinator

and/or Responsible, Steering Group Member and/or Work Package/Case Study Leader: EU-H2020-MEESO; EU-H2020-CERES, EU-FP7-BENTHIS, EU-FP7-SOCIOEC, EU-FP6-CEVIS, EU-FP6-PKFM, Danish Strategic Research Council Project IMAGE, Saudi Arabian Fish. Science Project, EU-HELCOM BaltBOOST, EU-HELCOM ACTION, EU Tenders Lot2-VMS-Logbook-Coupling, Lot5-Review-BioEcon-Models, Lot1-EVARES-Survey-Evaluation, Lot2-Data-Poor-Stocks-Mixed-Fisheries, EU-EFICA-High Arctic Fish. Res.; EU-PROBYFISH Protecting by-catch species, and DFFE-IMPSEL, DFFE-Herring Selection, EMFF-ManDaLIS Man. of Data Poor Stocks, EMFF-MSPTOOLS Mar.Spatial Planning.

#### **Research collaboration with stakeholders, 2011-present**

Extensive collaboration with National Fisheries Organizations and International Advisory Bodies: ICES, NAFO, FAO, DANIDA, Baltic and North Sea AC's.

#### **Publications**

**Totally: 219; Scientific Peer Reviewed Publications: 60; Scientific Peer Reviewed papers submitted, in submission or in advanced prep: 9; Scientific Conference Proceedings, Popular Scientific Publications, and Reports: 151;**

Additionally a very long row of EU Research Project Deliverables and Interim Reports, ICES Assessment Working Group Reports, ICES Study Group Reports, EU STECF SGMOS & EWG Advisory Reports, DANIDA Project Advisory Reports to the Vietnamese Government an Authorities, Project Advisory Reports to the Saudia Arabian Government and KFUPM University, and production of a long row of Official Advisory Notes to the Danish Ministry for Food and Environment.

#### **Selected Recent Peer Reviewed Publications**

1. *Nielsen J.R., Thunberg E., Holland D. S., et al. 2017/2018. 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>.*
2. *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.***
3. *Nielsen, J.R., Kristensen, K., 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. (PONE-D-13-36261R2). <https://doi.org/10.1371/journal.pone.0099151>*
4. *Nielsen, J.R., 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).*
5. *Nielsen, J.R., Lambert, G., Bastardie, F., Sparholt, H., and M. Vinther. 2012. 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>.*