

Short CV – Junita D. Karlsen

Degrees

- PhD, Bioscience, Aarhus University, Denmark (2011).
- MSc, Norwegian College of Fisheries Science, University of Tromsø, Norway (2001).

Positions

- Researcher, DTU Aqua, Technical University of Denmark (2014-present, maternity leave: 9 months).
- Postdoc, DTU Aqua (2012-2014).
- Lecturer, Education Studies, University College of Northern Denmark (2011).
- PhD Student, DTU Aqua (2007-2011, maternity leave: 10 months).
- Research Assistant, Danish Institute for Fisheries Research (DIFRES) (2006-2007, maternity leave: 10 months).
- Quality Manager, Mack Brewery AS, Tromsø, Norway (2002-2005).

Research area

The cross field between fisheries technology, animal behavior and seafood quality. Particular how fish behavior and gear design can interplay to optimize biological and economical sustainable fisheries through gear selectivity and efficiency.

Distinctions and awards

Best student poster presentation, 14th Annual European Cetacean Society Conference, Cork, Ireland (2000).

Memberships of scientific committees, 2011-present

Member of the ICES Working Group on Fishing Gear and Fish Behavior (2012-present).

Peer reviewed publications: 9. Reports: 8. International conferences: 10.

Advisory tasks, 2011-present

Notes to the Ministry of Environment and Food of Denmark: 4.

Educational tasks, 2011-present

One semester as lecturer teaching biology and science/technology for teacher-students. Lectures at the PhD course Fishing Capture Technology (25608) on fish behavior in relation to the capture process.

Supervision, 2011-present

PhD students: 1 (Co-supervisor).

Grants, 2011-present

- European Fisheries Fund (EFF): Optimizing catch value in the Danish mixed fishery (2013-2014, Coordinator).
- Green Development and Demonstration Program (GUDP): Selective and low impact gear for fishing live *Nephrops* (2013-2015, PI, WP Leader).
- European Maritime and Fisheries Fund (EMFF): Develop an optimized and flexible selectivity system for trawl with the use of new technology and underexploited fish behavior in the *Nephrops* fisheries (2016-2018, Coordinator).

Research collaboration with stakeholders, 2011-present

Various research projects with national and international stakeholder participation, meetings and presentations for national and international stakeholders.

Five selected publications

Karlsen JD, Krag LA, Albertsen CM, Frandsen RP. (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.

Krag LA, Herrmann B, Karlsen JD, Mieske B. (2015). Species selectivity in different sized topless trawl designs: does size matter? Fisheries Research 172,243-249.

Herrmann B, Wienbeck H, Karlsen JD, Stepputtis D, Dahm E, Moderhak W. (2015). Understanding the release efficiency of Atlantic cod (*Gadus morhua*) from trawls with a square mesh panel: effects of panel area, panel position, and stimulation of escape response. ICES Journal of Marine Science, 72, 86-696, doi:10.1093/icesjms/fsu124.

Krag LA, Herrmann B, Karlsen JD. (2014). Inferring fish escape behavior in trawls based on catch comparison data: model development and evaluation based on data from Skagerrak, Denmark. PLoS One 9(2) e88819. doi: 10.1371/journal.pone.0088819.

Karlsen JD, Andersen NG. (2012). Does the cylinder model of gastric evacuation predict actual evacuation of mixed meals of prey of contrasting geometries in a piscivorous fish? Journal of Fish Biology 80, 166-180.