

Curriculum vitae

NAME: Roger B. Larsen
TITLE: MSc. Fisheries Science
POSITION: Associate Professor
ADDRESS: Job: the Arctic University of Norway UiT (Tromsø),
Faculty of BioSciences, Fishery and Economics;
Institute of Norwegian College of Fishery Science
(NCFS), Breivika, N-9037 Tromsø, Norway.
TELEPHONES/FAX: Private: +47 97 66 93 66, Job: +47 77 64 60 00,
Fax: Job: +47 77 64 60 20
E-mail: Job: roger.larsen@uit.no
Web: [UiT Roger B. Larsen](#)
Research & profile: [ResearchGate](#) - [CRISTin profile](#) - [Munin](#) - [CRISTin publications](#) - [ORCID](#)



KEY QUALIFICATIONS:

My work at the Norwegian College of Fishery Science consists of research, administration and teaching. I am lecturing students on fishing methods and gears of marine fisheries, including subjects as material choices, constructions, hydrodynamics, efficiency, selectivity, fish behaviour, etc, and on special subjects on the use of acoustic instrumentation with special reference to hydro-acoustics and the echo integration method and the selectivity of fishing gears. Lecturing, preparations, supervising students (MSc and PhD), etc. will normally occupy half of my time. I have supervised a number of candidates from my college; 36 MSc, 5 PhD and 2 post.docs. Currently, I am supervising two MSc and four PhD students, and will add another two PhD students on the list later this year.

The latter 50% of my time is mainly used on research activities dedicated to the development on conservation oriented fishing methods, studies on fish behaviour, leading different research project related to fishing and sampling gears (fish, shrimps, crabs, mesopelagic resources), modelling of fishing gears (flume tank testing) and full scale trials. Some of this work is done in close co-operation with staffs from different parts of the world. Since 1990 I was leading the development of the Norwegian size selective sorting grid system for bottom trawls named Sort-X, I was part of the Norwegian team developing the bycatch reducing device Nordmøre grid for shrimp and prawn trawls and I've been participating in the development of new, safer and more efficient hauling methods in longlining. During my career I've developed good relations to the legislative authorities through several experiments for the industry, among them development of new types of by-catch excluder devices (BRDs) for shrimp trawls.

I've had two periods as member of the College-board and over a period of almost 20 years I was heading the research vessel committee at our University. In the periods 2010-2013 and 2016-2019 I led research group [BRIDGE](#) and since May 2019 I've been leading research group [HARVEST](#).

Currently I am the director of SFI [Dsolve](#), I participate in SFI [Harvest](#), I participate in six other national and international research projects and I am contributing to Centre of research-based innovation; CRISP at the IMR, Bergen. I have during later years worked together with dedicated scientists and private companies who are doing significant attempts to fight the plastic pollution of our oceans.

WORK EXPERIENCE:

2001-present: Associate Professor at the Norwegian College of Fishery Science, BFE – UiT.
2007-2008: Sabbatical from UiT, attached to AZTI tecnalia, Pasaia, Basque Country, Spain.
1999-2000: Managing director of R&D company Selfi a.s., Tromsø.

- 1985-1999: Associate Professor at the Norwegian College of Fishery Science, UiT.
 1997-1998: Sabbatical from UiT, attached to NSW Fisheries Research, Sydney, Australia
 1985-1985: Scientific assistant, working on selective shrimp trawl designs.
 1983-1984: Research assistant, employed on a two-year project on Danish seines selectivity.
 1980-1984: Several part time jobs at the University of Tromsø, including a 2½ month period as crew on a research vessel.
 1978-1979: Part time employee as fisherman on whitefish trawlers.
 1973-1975: Employed as fisherman (and trawl boss during 74/75) on a whitefish trawler.
 1987-present: Granted more than 150 research permits with fish quota allocations on behalf of UiT and organizing/leading a similar number of research cruises (2000 days at sea)

MOBILITY:

- 1996-1997: NSW Fisheries Research Institute, Cronulla, Sydney/Australia (12 months)
 2007-2008: AZTI technalia, Pasaia, San Sebastian/Spain (12 months)

LECTURING:

- Norwegian FSK-2020 Bærekraftig fiskeri/Sustainable fisheries (30 ects) since 2019, replacing FSK-2008 Fishing methods of marine fisheries (10 ects), 100% since 1985.
- International BIO-3556: Fisheries biology and harvest methods (10 ects), 50% since 1998.
- Responsible and cruise leader for 10 days student courses on the use of hydro acoustics, echo integration and fishing gear selectivity, since 1987.
- Annual lectures for the Norwegian Coast Guard (Håkonsvern, Bergen), since 2010.
- (Norwegian F-160 Fishing methods and technology within aquaculture/Sea ranching, replaced by MTE-2001).
- Norwegian MTE-3001 Fishing vessel technology, since 1990 and currently on hold).
- (Lectures at various training courses for fishermen in the flume-tank for fishing gears, Denmark, since 1987).

CURRENT PROJECTS:

1. SFI [Dsolve](#): Biodegradable plastics for marine application – innovations for fisheries and aquaculture (2020-2028). The Research Council of Norway. NFR 310008.
2. SFI [Harvest*](#) – Technologies for sustainable biomarine value chain (2020-2028). The Research Council of Norway. NFR 309661.
3. Improvement of fish quality in the Barents Sea bottom trawl fishery, part of the SFI [CRISP**](#) at the Institute of Marine Research, Bergen (2015-2022). The Research Council of Norway.
4. AFO-JIGG: Service design thinking to improve welfare and product quality in the Norwegian small-scale fishing fleet. The Research Council of Norway. NFR 302635.
5. Development of selection system for fish trawls (2020-2023)***, The Norwegian seafood research fund. FHF 901633.
6. Development of effective selection systems in pelagic and industry-fish trawls (2021-2023)*, The Norwegian seafood research fund. FHF 901634.
7. Alternative materials to plastics used in demersal seine ropes and codend dolly ropes (2021-2022)*. The Norwegian seafood research fund. FHF 901669.

FORMER PROJECTS I (2020-2016: National co-operation):

8. Bio-Gillnets: Use of biodegradable materials in fishing gears: A proposal for solution to reduce ghost fishing and microplastic pollution. (2018-2020)*. Prosjekt 282512 – Regionalt forskningsfond (Fondsregion Nord-Norge).
9. Optimizing the Norwegian trawl fishery for Deepwater shrimp (2016-2020). The Norwegian seafood research fund (FHF 901303) and the Directorate of Fisheries.

10. Use of biodegradable gillnets to reduce the risk of ghostfishing in the Norwegian deepwater fishery. The Norwegian seafood research fund (FHF 901200)
11. HYDROGRID - Catch control II: Managing trawl catches by improving the hydrodynamic performance of sorting grid sections and codends (2015-2017)*. The Research Council of Norway. NFR 243627/ELI.
12. CRABTECH - Technology development for effective harvest of snow crab. Innovation project in the business sector – BIA. (2014-2017)*. The Research Council of Norway. NFR 245273.
13. ECO-Shrimp Trawling (2014-2016)*. The Research Council of Norway. NFR 2353024/O30.
14. Danish Seine: Computer based Development and Operation (2013-2016)*. The Research Council of Norway. NFR 225193/O70).

Leading institution: *[SINTEF Ocean AS](#), **[IMR](#)

FORMER PROJECTS II (2011-1988: Led by UiT):

15. Development of new hauling technique in longlining (2010-2011). The Norwegian seafood research fund (FHF 900411).
16. Research and development of the longline fisheries (2010-2010). The Norwegian seafood research fund (FHF 900442).
17. Various types of bait for pelagic longlining (2009-2009). The Norwegian seafood research fund. (FHF 900298).
18. Selectivity and by-catches in the northern trawl fisheries (2005-2007). The Research Council of Norway. NFR 159820.
19. Alternative selective techniques in shrimp trawls and fish trawls (2004-2006). The Research Council of Norway. NFR 153002/I10.
20. Testing and documentation of the Automatic Longline Hauler system (2003-2004). The Research Council of Norway. NFR 161738/I20.
21. Installation of scientific echo sounders EK60 on RV “Jan Mayen” and RV “Johan Ruud” (2003-2003). The Research Council of Norway. NFR 155545/420.
22. Automatic Longline Hauler system for the traditional coastal vessels (2002-2003). The Research Council of Norway. NFR 149522/I20.
23. Improved performance of sampling trawls (1990-1992). The Research Council of Norway. NFR 001.500.052.
24. New, selective fish trawl (1987-1988). The Research Council of Norway. NFR II 403.127.

CURRENT ASSIGNMENTS:

Member of research group HARVEST (Gear technology and processing in marine fisheries).
Leader of research group HARVEST (2019-present).
Member of ICES-FAO working group on Fisheries Technology and Fisheries Behaviour (FTFB).
Vice-leader of UArctic thematic network on Arctic plastic pollution.
Member of UiT steering committee for vessel operations.
Member of UiT planning/building of new inshore/coastal vessel.

FUNDING (the last 5 years):

Since 1987 I have had the responsibility at UiT to apply for funding of fishing gear trials in the form of fishing permits and research quotas from the Directorate of Fisheries. Until 2014 UiT also applied for fish quotas used as payment for the chartering of commercial vessels. The quantities of fish (i.e. cod, haddock, saithe, Greenland halibut, redfish, Deepwater shrimps and snowcrab) has varied from 200 tons to 600 tons annually. A rough estimate of the commercial value is NOK 5-15 million a year. The projects listed below has allocated/will allocate fish quotas.

Project	Period	Project name	Budget (1000 NOK)
1	2020-2028	SFI Dsolve – Centre for Research-based Innovation – Biodegradable plastics for marine applications	247.000
2	2020-2028	SFI Harvest - Technologies for sustainable biomarine values creation (UiT participate in WP2 and WP4).	253.000
3	2011-2019	SFI CRISP - Centre for Research-based Innovation in Sustainable fish capture and Pre-processing technology (UiT participate in WP 5, still running)	266.388
4	2020-2023	AFO-JIGG - Service design thinking to improve welfare and product quality in the small-scale fleet. NFR MARINFORSK – 302635.	12.000
5	2021-2024	FHF 901633 - Development of selection system for fish trawls	27.750
6	2021-2023	FHF 901634 - Development of effective selection systems in pelagic and industry-fish trawls.	4.812
7	2021-2022	FHF 901669 - Alternative materials to plastics used in demersal seine ropes and codend dolly ropes	9.218
8	2016-2018	Regionalt forskningsfond (nr 282512). Bio-gillnet II - Use of biodegradable materials in fishing gears: A proposal for solution to reduce ghost fishing and microplastic pollution	5.181
9	2016-2020	FHF 901303 - Optimizing the Norwegian trawl fishery for Deepwater shrimp.	22.715
10	2016-2019	FHF 901200 – Use of biodegradable gillnets to reduce the risk of ghostfishing in the Norwegian deepwater fishery	11.332
11	2015-2017	RCN 243627/ELI . Hydrogrid- Catch control II. Managing trawl catches by improving the hydrodynamic performance of sorting grid sections and codends.	5.500
12	2015-2017	RCN 243627 . CRABTECH - Technology development for effective harvest of snow crab. Innovation project in the business sector – BIA.	11.500
13	2014-2016	RCN 235324 - ECO-shrimp trawling. Ledet av SINTEF Ocean.	4.100
14	2013-2016	Danish Seine. NFR 225193/O70. Computer based Development and Operation. Ledet av SINTEF Ocean.	n.a.

PUBLICATIONS (peer review):

Applied journals:

- Fisheries Research: 9, 10, 13, 14, 22, 23, 25, 26, 31, 35, 39, 41, 42, 44, 45, 51, 52, 53, 54, 55, 56, 57, 58, 59, 61, 62, 63, 65, 69
- Canadian Journal of Fisheries and Aquatic Sciences: 12, 15, 16, 21, 32, 49
- PLOS ONE: 1, 12, 18, 19, 28
- ICES Journal of Marine Science: 17, 24, 29, 36
- Marine and Coastal Fisheries: 20, 23, 33
- ICES Marine Science Symposia 1993: 6, 68
- Marine Pollution Bulletin: 4, 5
- Journal of Northwest Atlantic Fishery Science: 34, 48
- Fishery Bulletin: 64, 66
- Frontiers in Marine Science: 27
- Regional Studies in Marine Science: 6
- Marine Policy: 7
- Journal of nature conservation: 3
- Shaker verlag: 43
- Aquatic living resources: 45
- FAO proceedings 2006: 60
- Food control: 8
- Asian Fisheries Science: 50
- Journal of applied Ichthyology: 47
- Journal of Ocean Technology: 37
- INTECH: 38
- Aquatic mammals: 30
- PeerJ: 11

- 1) *Larsen, Roger B.; Herrmann, Bent; Brcic, Jure; Sistiaga, Manu; Cerbule, Kristine; Nielsen, Kåre Nólde; Jacques, Nadine; Lomeli, Mark Joseph Max; Tokac, Adnan; Cuende, Elsa.* Can vertical separation of species in trawls be utilized to reduce bycatch in shrimp fisheries?. *PLOS ONE* 2021; Volum 16 (3). ISSN 1932-6203.s 1 - 17.s doi: 10.1371/journal.pone.0249172.
- 2) *Jacques, Nadine & Pettersen, Hermann & Cerbule, Kristine & Herrmann, Bent & Ingólfsson, Ólafur & Sistiaga, Manu & Larsen, Roger & Brinkhof, Jesse & Grimaldo, Eduardo & Brčić, Jure & Lilleng, Dagfinn.* (2021). Bycatch reduction in the deep-water shrimp (*Pandalus borealis*) trawl fishery by increasing codend mesh openness. *Canadian Journal of Fisheries and Aquatic Sciences*. 10.1139/cjfas-2021-0045.
- 3) *Cerbule, Kristine; Jacques, Nadine; Pettersen, Hermann; Ingólfsson, Ólafur Arnar; Herrmann, Bent; Grimaldo, Eduardo; Larsen, Roger B.; Brinkhof, Jesse; Sistiaga, Manu; Lilleng, Dagfinn; Brčić, Jure.* Bycatch reduction in the deep-water shrimp (*Pandalus borealis*) trawl fishery with a large mesh top panel. *Journal for Nature Conservation* 2021; Volum 61. ISSN 1617-1381.s 1 - 8.s doi: 10.1016/j.jnc.2021.126001.
- 4) *Sistiaga, Manu; Herrmann, Bent; Brinkhof, Jesse; Larsen, Roger B.; Jacques, Nadine; Santos, Juan; Gjøsund, Svein Helge.* Quantification of gear inflicted damages on trawl-caught haddock in the Northeast Atlantic fishery. *Marine Pollution Bulletin* 2020; Volum 157. ISSN 0025-326X.s doi: 10.1016/j.marpolbul.2020.111366.
- 5) *Grimaldo, Eduardo; Herrmann, Bent; Jacques, Nadine; Kubowicz, Stephan; Cerbule, Kristine; Su, Biao; Larsen, Roger B.; Vollstad, Jørgen.* The effect of long-term use on the Catch efficiency of Biodegradable gillnets. *Marine Pollution Bulletin* 2020; Volum 161 (B). ISSN 0025-326X.s 1 - 11.s doi: 10.1016/j.marpolbul.2020.111823.

- 6) Herrmann, Bent; Sistiaga, Manu; Larsen, Roger B.; Brinkhof, Jesse; Gjøsund, Svein Helge; Jacques, Nadine; Santos, Juan. Catch pattern and size selectivity for a gear designed to prevent fish injuries during the capture process in a North-East Atlantic demersal trawl fishery. *Regional Studies in Marine Science* 2020; Volum 40. ISSN 2352-4855.s doi: 10.1016/j.rsma.2020.101525.
- 7) Standal, Dag; Grimaldo, Eduardo; Larsen, Roger B.. Governance implications for the implementation of biodegradable gillnets in Norway. *Marine Policy* 2020; Volum 122. ISSN 0308-597X.s doi: 10.1016/j.marpol.2020.104238.
- 8) Brinkhof, Jesse; Herrmann, Bent; Sistiaga, Manu; Larsen, Roger B.; Jacques, Nadine; Gjøsund, Svein Helge. Effect of gear design on catch damage on cod (*Gadus morhua*) in the Barents Sea demersal trawl fishery. *Food Control* 2020; Volum 120. ISSN 0956-7135.s doi: 10.1016/j.foodcont.2020.107562.
- 9) Brinkhof, Jesse; Larsen, Roger B.; Herrmann, Bent; Sistiaga, Manu. Size selectivity and catch efficiency of bottom trawl with a double sorting grid and diamond mesh codend in the North-east Atlantic gadoid fishery. *Fisheries Research* 2020; Volum 231. ISSN 0165-7836.s doi: 10.1016/j.fishres.2020.105647.
- 10) Grimaldo, Eduardo; Herrmann, Bent; Su, Biao; Føre, Heidi Moe; Vollstad, Jørgen; Olsen, Leonore; Larsen, Roger B.; Tatone, Ivan. Comparison of fishing efficiency between biodegradable gillnets and conventional nylon gillnets. *Fisheries Research* 2019; Volum 213. ISSN 0165-7836.s 67 - 74.s doi: 10.1016/j.fishres.2019.01.003.
- 11) Araya-Schmidt, Tomas; Olsen, Leonore; Rindahl, Lasse; Larsen, Roger B.; Winger, Paul D.. Alternative bait trials in the Barents Sea snow crab fishery. *PeerJ* 2019; Volum 7 (5). ISSN 2167-8359.s doi: 10.7717/peerj.6874.
- 12) Sistiaga, Manu Berrondo; Herrmann, Bent; Larsen, Roger B.; Brinkhof, Jesse. Quantification of bell-shaped size selectivity in shrimp trawl fisheries using square mesh panels and a sorting cone after a Nordmøre grid. *PLOS ONE* 2019; Volum 14 (9). ISSN 1932-6203.s doi: 10.1371/journal.pone.0222391.
- 13) Herrmann, Bent; Sistiaga, Manu Berrondo; Larsen, Roger B.; Brinkhof, Jesse. Effect of three different codend designs on the size selectivity of juvenile cod in the Barents Sea shrimp trawl fishery. *Fisheries Research* 2019; Volum 219. ISSN 0165-7836.s doi: 10.1016/j.fishres.2019.105337.
- 14) Jacques, Nadine; Herrmann, Bent; Larsen, Roger B.; Sistiaga, Manu Berrondo; Brčić, Jure; Gökçe, Gökhan; Brinkhof, Jesse. Can a large-mesh sieve panel replace or supplement the Nordmøre grid for bycatch mitigation in the northeast Atlantic deep-water shrimp fishery?. *Fisheries Research* 2019; Volum 219. ISSN 0165-7836.s doi: 10.1016/j.fishres.2019.105324.
- 15) Brinkhof, Jesse; Herrmann, Bent; Larsen, Roger B.; Veiga-Malta, Tiago. Effect of a quality-improving codend on size selectivity and catch patterns of cod in bottom trawl fishery. *Canadian Journal of Fisheries and Aquatic Sciences* 2019; Volum 76 (11). ISSN 0706-652X.s 2110 - 2120.s doi: 10.1139/cjfas-2018-0402.
- 16) Larsen, Roger B.; Sistiaga, Manu Berrondo; Herrmann, Bent; Brinkhof, Jesse; Tatone, Ivan; Santos, Juan. The effect of Nordmøre grid length and angle on codend entry of bycatch fish species and shrimp catches. *Canadian Journal of Fisheries and Aquatic Sciences* 2019; Volum 76 (2). ISSN 0706-652X.s 308 - 319.s doi: 10.1139/cjfas-2018-0069.
- 17) Sistiaga, Manu Berrondo; Herrmann, Bent; Grimaldo, Eduardo; Larsen, Roger B.; Olsen, Leonore; Brinkhof, Jesse; Tatone, Ivan. Combination of a sorting grid and a square mesh panel to optimize size selection in the North-East Arctic cod (*Gadus morhua*) and redfish (*Sebastes* spp.) trawl fisheries. (Sammendrag: <https://academic.oup.com/icesjms/advance-article-abstract/doi/10.1093/icesjms/fsx231/4780188?redirectedFrom=fulltext>) *ICES Journal of Marine Science* 2018; Volum 75 (3). ISSN 1054-3139.s 1105 - 1116.s doi: 10.1093/icesjms/fsx231.
- 18) Larsen, Roger B.; Herrmann, Bent; Sistiaga, Manu Berrondo; Brinkhof, Jesse; Santos, Juan. Catch and release patterns for target and bycatch species in the Northeast Atlantic deep-water shrimp fishery: Effect of using a sieve panel and a Nordmøre grid. *PLOS ONE* 2018; Volum 13 (12). ISSN 1932-6203.s doi: 10.1371/journal.pone.0209621.
- 19) Brinkhof, Jesse; Olsen, Stein Harris; Ingólfsson, Ólafur Arnar; Herrmann, Bent; Larsen, Roger B.. Sequential codend improves quality of trawlcaught cod. *PLOS ONE* 2018; Volum 13:e0204328 (10). ISSN 1932-6203.s 1 - 14.s doi: 10.1371/journal.pone.0204328.

- 20) Larsen, Roger B.; Herrmann, Bent; Brinkhof, Jesse; Grimaldo, Eduardo; Sistiaga, Manu Berrondo; Tatone, Ivan. Catch Efficiency of Groundgears in a Bottom Trawl Fishery: A Case Study of the Barents Sea Haddock. *Marine and Coastal Fisheries* 2018; Volum 10 (5). ISSN 1942-5120.s 493 - 507.s doi: 10.1002/mcf2.10048.
- 21) Herrmann, Bent; Sistiaga, Manu Berrondo; Grimaldo, Eduardo; Larsen, Roger B.; Olsen, Leonore; Brinkhof, Jesse; Tatone, Ivan. Size selectivity and length-dependent escape behaviour of haddock in a sorting device combining a grid and a square mesh panel. *Canadian Journal of Fisheries and Aquatic Sciences* 2018; Volum 76 (8). ISSN 0706-652X.s 1350 - 1361.s doi: 10.1139/cjfas-2017-0461.
- 22) Larsen, Roger B.; Herrmann, Bent; Sistiaga, Manu Berrondo; Grimaldo, Eduardo; Tatone, Ivan; Brinkhof, Jesse. Size selection of cod (*Gadus morhua*) and haddock (*Melanogrammus aeglefinus*) in the Northeast Atlantic bottom trawl fishery with a newly developed double steel grid system. *Fisheries Research* 2018; Volum 201. ISSN 0165-7836.s 120 - 130.s doi: 10.1016/j.fishres.2018.01.021.
- 23) Larsen, Roger B.; Herrmann, Bent; Sistiaga, Manu Berrondo; Brinkhof, Jesse; Grimaldo, Eduardo. Bycatch reduction in the Norwegian deep-water shrimp (*Pandalus borealis*) fishery with a double grid selection system. *Fisheries Research* 2018; Volum 208. ISSN 0165-7836.s 267 - 273.s doi: 10.1016/j.fishres.2018.08.007.
- 24) Grimaldo, Eduardo; Herrmann, Bent; Vollstad, Jørgen; Su, Biao; Føre, Heidi Moe; Larsen, Roger B.; Tatone, Ivan. Fishing efficiency of biodegradable PBSAT gillnets and conventional nylon gillnets used in Norwegian cod (*Gadus morhua*) and saithe (*Pollachius virens*) fishery. *ICES Journal of Marine Science* 2018. ISSN 1054-3139.s doi: 10.1093/icesjms/fsy108.
- 25) Brinkhof, Jesse; Larsen, Roger B.; Herrmann, Bent; Olsen, Stein Harris. 2018. Assessing the impact of buffer towing on the quality of Northeast Atlantic cod (*Gadus morhua*) caught with a bottom trawl. *Fisheries Research* 2018; Volum 206. s. 209-219.
- 26) Grimaldo, Eduardo; Herrmann, Bent; Su, Biao; Føre, Heidi Moe; Vollstad, Jørgen; Olsen, Leonore; Larsen, Roger B.; Tatone, Ivan, 2018. Comparison of fishing efficiency between biodegradable PBSAT gillnets and conventional nylon (PA) gillnets. *Fisheries Research* 2018.
- 27) Knutsen, Tor; Hosia, Aino; Falkenhaus, Tone; Skern-Mauritzen, Rasmus; Wiebe, Peter H.; Larsen, Roger B.; Aglen, Asgeir; Berg, Erik. 2018. Coincident mass occurrence of gelatinous zooplankton in Northern Norway. *Frontiers in Marine Science* 2018; Volum 5.
- 28) Brinkhof, Jesse; Olsen, Stein Harris; Ingólfsson, Ólafur Arnar; Herrmann, Bent; Larsen, Roger B.. 2018. Sequential codend improves quality of trawlcaught cod. *PLoS ONE* 2018 ;Volum 13:e0204328.(10) s. 1-14
- 29) Sistiaga, Manu Berrondo; Herrmann, Bent; Grimaldo, Eduardo; Larsen, Roger B.; Olsen, Leonore; Brinkhof, Jesse; Tatone, Ivan. 2018. Combination of a sorting grid and a square mesh panel to optimize size selection in the North-East Arctic cod (*Gadus morhua*) and redfish (*Sebastes* spp.) trawl fisheries. *ICES Journal of Marine Science* 2018; Volum 75. (3) s. 1105-1116.
- 30) Blanchet, Marie-Anne; Acquarone, Mario; Biuw, Martin; Larsen, Roger B.; Nordøy, Erling Sverre; Folkow, Lars. A life after research? First release of harp seals (*Phoca groenlandica*) after temporary captivity for scientific purposes. *Aquatic Mammals* 2018; Volum 44 (4). ISSN 0167-5427.s 343 - 356.s doi: 10.1578/AM.44.4.2018.343.
- 31) Brinkhof, Jesse; Larsen, Roger B.; Herrmann, Bent; Grimaldo, Eduardo. 2017. Improving catch efficiency by changing ground gear design: Case study of Northeast Atlantic cod (*Gadus morhua*) in the Barents Sea bottom trawl fishery. *Fisheries Research* 2017; Volum 186. s. 269-282. <https://doi.org/10.1016/j.fishres.2016.10.008>
- 32) Grimaldo, Eduardo; Sistiaga, Manu Berrondo; Herrmann, Bent; Larsen, Roger B.; Brinkhof, Jesse; Tatone, Ivan. 2017. Improving release efficiency of cod (*Gadus morhua*) and haddock (*Melanogrammus aeglefinus*) in the Barents Sea demersal trawl fishery by stimulating escape behaviour. *Canadian Journal of Fisheries and Aquatic Sciences* 2017; doi.org/10.1139/cjfas-2017-0002. s. 1-15
- 33) Larsen, Roger B.; Herrmann, Bent; Sistiaga, Manu Berrondo; Brinkhof, Jesse; Tatone, Ivan; Langård, Lise. 2017. Performance of the Nordmøre grid in shrimp trawling and potential effects of guiding funnel length and light stimulation. *Marine and Coastal Fisheries* 2017; Volum 9.(1) s. 479-492.

- 34) Larsen, Roger B.; Herrmann, Bent; Sistiaga, Manu Berrondo; Grimaldo, Eduardo; Brinkhof, Jesse; Tatone, Ivan. 2017. Size selection of Greenland halibut (*Reinhardtius hippoglossoides*) in the Norwegian bottom trawl fishery with a newly developed double grid system. *Journal of Northwest Atlantic Fishery Science* 2017; Volum 49. s. 39-48.
- 35) Larsen, Roger B.; Herrmann, Bent; Sistiaga, Manu Berrondo; Brcic, Jure; Brinkhof, Jesse; Tatone, Ivan. 2018. Could green artificial light reduce bycatch during Barents Sea Deep-water shrimp trawling? *Fisheries Research* 2018; Volum 204. s. 441-447.
- 36) Larsen, Roger B.; Herrmann, Bent; Sistiaga, Manu Berrondo; Brinkhof, Jesse; Tatone, Ivan; Langård, Lise. 2018. New approach for modelling size selectivity in shrimp trawl fisheries. *ICES Journal of Marine Science* 2018; Volum 75. (1) s. 351-360.
- 37) Sistiaga, Manu Berrondo; Grimaldo, Eduardo; Herrmann, Bent; Larsen, Roger B.. 2017. The effect of semi-pelagic trawling on american plaice (*Hippoglossoides platessoides*) by-catch reduction in the northeast arctic shrimp fishery. *Journal of Ocean Technology* 2017. Volum 12.(2) s. 60-75.
- 38) Grimaldo, Eduardo; Sistiaga, Manu Berrondo; Herrmann, Bent; Larsen, Roger B., 2016. Trawl Selectivity in the Barents Sea Demersal Fishery. *INTECH 2016* ISBN 978-953-51-2686-7.s 69 - 94.s doi: [10.5772/63019](https://doi.org/10.5772/63019).
- 39) Sistiaga, Manu Berrondo; Herrmann, Bent; Grimaldo, Eduardo; Larsen, Roger B.; Tatone, Ivan, 2016. The effect of sweep bottom contact on the catch efficiency of haddock (*Melanogrammus aeglefinus*). *Fisheries Research* 2016; Volum 179. ISSN 0165-7836.s 302 - 307.s doi: [10.1016/j.fishres.2016.03.016](https://doi.org/10.1016/j.fishres.2016.03.016).
- 40) Larsen, Roger B.; Herrmann, Bent; Sistiaga, Manu Berrondo; Grimaldo, Eduardo; Tatone, Ivan; Onandia, Inigo, 2016. Size selection of redfish (*Sebastes* spp.) in a double grid system: Estimating escapement through individual grids and comparison to former grid trials. *Fisheries Research* 2016; Volum 183. ISSN 0165-7836.s 385 - 395.s doi: [10.1016/j.fishres.2016.07.013](https://doi.org/10.1016/j.fishres.2016.07.013).
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- 65) Gray, Charles A.; Larsen, Roger B.; Kennelly, Steven J.. 2000. Use of transparent netting to improve size selectivity and reduce bycatch in fish seine nets. *Fisheries Research* 2000; Volum 45 (3). ISSN 0165-7836.s 155 - 166. Doi: 10.1016/S0165-7836(99)00111-3
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- 68) Larsen, Roger B.; Kristjansson, Joel; Marteinsson, Jon Einar. 1993. Vertical size distribution of shrimps (*Pandalus borealis*) in the water column 0 to 8 m off the seabed. *ICES Marine Science Symposia* 1993; Volum 196. ISSN 0906-060X.s 207 - 210.
- 69) Isaksen, Bjørnar; Valdemarsen, John W.; Larsen, Roger B.; Karlsen, Ludvig. 1992. Reduction of fish by-catch in shrimp trawl using a rigid separator grid in the aft belly. *Fisheries Research* 1992; Volum 13. ISSN 0165-7836.s 335 - 352. Doi: 10.1016/0165-7836(92)90086.

EXAMPLES OF OUTREACH (In Norwegian mainly, last four years):

- Larsen, Roger B., 2021. Forskeren er spent på hvordan ny regjering vil takle skiftet fra oljen til en grønn, global omstilling. Tekfisk
- Larsen, Roger B., 2021. Utdanningen må opp fra skolebenken og ut på havet. 2021. [Podcast \(03.09.21\)](#), Tekfisk.
- Larsen, Roger B., 2021. Bunntrål - En feilslått velsignelse?.Kronikk, Fiskeribladet.
- Larsen, Roger B., 2021. Veien mot full ressursutnyttelse i sjømatnæringen: Optimalisering av fiske med reketrål – minske bifangst og øke overlevelse av utsortert undermålsreke. Webinar.
- Larsen, Roger B., 2021. Oslofjorden nesten tom for fisk. Reketrålerne føler seg uthengt som bøller. Aftenposten.
- Larsen, Roger B., 2021. Alternativer til slitematter i trål. Webinar.
- Larsen, Roger B., 2021. Fiske med reketrål - Utfordringer og løsninger. Webinar 20
- Larsen, Roger B., 2021. Nedbrytbar plast kan stoppe plastforsøpling fra fiskeri. UiT Nyheter.
- Larsen, Roger B., 2021. Intervju på [NRK Troms morgensending \(28.04.21\)](#).
- Larsen, Roger B., 2021. A new Centre for Research-based Innovation – Dsolve (development of biodegradable plastics in marine applications – Innovations for fisheries and aquaculture). Havforskningsmøte Norge-Brasil.
- Larsen, Roger B., 2021. Fangst og produksjon av fisk uten skadelig plast. Peter Hjort Seminar.
- Larsen, Roger B., 2020. Oppsummering av prosjektet Optimalisering av fiske med reketrål- nasjonal satsing 2016-2020. Webinar..
- Larsen, Roger B., 2020. Optimalisering av rekefisket med trål. Etter nesten 4 år med forsøk er det testet og dokumentert mange teknikker som kan forbedre det selektive rekefisket. FHF.
- Larsen, Roger B., 2020. Vi skal bekjempe marin plastforsøpling. Kronikk, Forskning.no.
- Larsen, Roger B., 2020. Det er plast overalt. Sågat.
- Larsen, Roger B., 2020. Optimalisering av reketrålfiske: Utfordringer bifangst. Nor-Fishing digitalt.
- Borit, Melania; Santos, Jorge; Larsen, Roger B., 2020. Vil heise opp juksa som redskap. Fiskeribladet.
- Larsen, Roger B.; Grimaldo, Eduardo, 2020. «Tidsinnstilt» plast skal ta spøkelsesfisket og mikroplasten ved roten. Fiskeribladet.
- Larsen, Roger B., 2020. Nye materialer skal redusere skader fra fiskeriene. Kronikk, UiT Backstage
- Larsen, Roger B., 2020. Vi er bare i startfasen. Sågat.
- Larsen, Roger B., 2020. Plast i fiskeredskap, fra nytte til fortvilelse. Kronikk, Fiskeribladet.
- Larsen, Roger B., 2019. I nesten tre år har de testet ut nye måter å tråle på. Nå går prosjektet mot slutten. Fiskeribladet.

- Johnsen, Jahn Petter; Larsen, Roger B.; Ellingsen, Kari; Aadland, Camilla, 2019. Forskere vil intervju skippere med erfaring fra fiske i Barentshavet. Tekfisk.
- Larsen, Roger B., 2018. Vil gjera rekefiske meir miljøvennleg. UiT Nyheter.
- Larsen, Roger B., 2018. Bedre fangstmetoder kan gi reke-eventyr: Norge kan tjene milliarder. [NRK Nordland TV \(21.08.18\)](#).
- Larsen, Roger B., 2018. Får 20 millioner for å forske på mer miljøvennlig rekefiske. Ny metode skal sikre færre yngel i rekestrålen, og dermed berge sårbare fiskearter. Fiskeribladet.
- Larsen, Roger B., 2017. Ikke til å tro at fiskere får seg til å dumpe søppelsekker som denne. Fiskeribladet.
- Larsen, Roger B., 2017. Tenker store tanker i tanken. Tekfisk.

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS:

Master's students	Ph.D./post.doc. Students	University/institution - Country
	7	Faculty of Biosciences, Fisheries and Economics/The Norwegian College of Fisheries/UiT The Arctic University of Norway/Norway
36		Faculty of Biosciences, Fisheries and Economics/The Norwegian College of Fisheries/UiT The Arctic University of Norway/Norway
September 2021: Four PhD students and two MSc students are currently under supervision.		

PhD & Post.doc. STUDENTS:

- Jesse V. Brinkhof, 2019. RCN project CRISP. Catch quality and size selectivity in the Barents Sea bottom trawl fishery: effect of codend design and trawling practice. PhD thesis, UiT.
- Post.doc. Nina Madsen (2013-2015). RCN project 225193/O70 Danish Seine; Computer based Development and Operation.
- Post.doc. Manu Sistiaga (2012-2014). RCN project 216423/O70 Development of multirig semi-pelagic trawling.
- Hai Phong Nguyen, 2013. Improving the size selectivity of the inshore trawl fishery of Nha Trang city, Khanh Hoa province, Vietnam. PhD thesis, UiT.
- Manu Sistiaga, 2010. Selectivity studies in the Barents Sea bottom trawl gadoid fishery: Gear and methods. PhD thesis, UiT.
- Eduardo Grimaldo, 2008. Selectivity studies in the Northeast Arctic bottom trawl fisheries for shrimp (*Pandalus borealis*), cod (*Gadus morhua*), and haddock (*Melanogrammus aeglefinus*). PhD thesis, UiT.
- Sünne L. Basedow, 2006: An eco-technological framework for locating large-scale surface patches of lipid-rich zooplankton. PhD thesis, UiT.

MSc STUDENTS:

- Anette Walle, 2020: Atferdsreaksjoner hos Atlantisk torsk (*Gadus morhua*) som følge av seismikkskyting. MSc thesis, UiT.
- Hermann Pettersen, 2020. A catch comparison study on different codend designs to evaluate bycatch reduction in the North-East Atlantic deep-water shrimp (*Pandalus borealis*) fishery. MSc thesis, UiT.

- 3) Viktoriia Kuz, 2019: Labour in fisheries: Task analyses of fishing operations on a Norwegian trawler. MSc thesis, Uit
- 4) Nadine L. Jacques, 2018: Modelling the bycatch reduction of a shrimp trawl with a combined Nordmøre grid and sieve panel configuration in the north east Atlantic deep-water shrimp (*Pandalus borealis*) fishery. MSc thesis, UIT.
- 5) Venil Eilertsen, 2018: Residual blood in cod loins as a result of buffer towing and delayed bleeding. MSc thesis, UIT. (Med-veileder).
- 6) Md Moniruzzam Khan, 2018. Suggested ways for improving the management of the Bay of Bengal shrimp trawl fisheries: A literature study on challenges and bycatch mitigation in shrimp trawl fisheries around the world and examples on how it is implemented in the management regimes in various nations. MSc thesis, UIT.
- 7) Helene M. Gjesteland, 2017. Beskrivelse av skadeomfanget på snøkrabbe (*Chionoecetes opilio*) ved interaksjon med bunntål i Barentshavet. MSc thesis, UIT.
- 8) Tomas Araya Schmidt, 2017. Developing a profitable, sustainable, and effecient snow crab (*Chionoecetes opilio*) fishery in the Barents Sea. MSc thesis, Memorial University of Newfoundland, St. John's. (Med-veileder).
- 9) Peter Starbatty, 2016. Gear selectivity and bycatch reduction in the Norwegian Red King Crab (*Paralithodes camtschaticus*) fishery. A study on seize-selective performances of different escape openings. MSc thesis, UIT.
- 10) Allison Leuttel, 2015. Snow crab (*Chionoecetes opilio*) interactions with bottom trawls and possible conflicts between trawl fleets and pot fisheries in the Northeast Barents Sea. MSc thesis, UIT.
- 11) Jesse M. Brinkhof, 2015. A study on the escape rate of Northeast Atlantic cod (*Gadus morhua*) and haddock (*Melanogrammus aeglefinus*) under the fishing line with two different ground ropes in the Barents Sea bottom trawl fishery - and the influence of some biotic and abiotic factors on the efficiency during bottom trawling. MSc thesis, UIT.
- 12) Torgeir Norheim, 2015. Roundhauler – The potential for efficient new fishing gear for the Norwegian coastal fleet. MSc thesis, UIT.
- 13) Leonore Olsen, 2014. Fishing trials with Norwegian and Canadian designs of fish pots compared to gillnets. MSc thesis, UIT.
- 14) Ixai Salvo Borda, 2014. Selectivity trials and comparisons between a rigid sorting grid and a square mesh window in shrimp trawl fisheries. MSc thesis, UIT.
- 15) Fredrik Olsen, 2014. The effect of hauling speed and modified hook designs in the commercial mechanized longline fishery. MSc thesis, UIT.
- 16) Ermis Angelogiannos, 2013. Description of the demersal trawl fishery in Greece, with a focus on codend selectivity and current regulations. MSc thesis, UIT.
- 17) Iñigo Onandia Calvo, 2012. Juvenile hake (*Merluccius merluccius*) discard minimization in otter board trawling by square mesh escaping window selective device. MSc thesis, UIT.
- 18) Shuai Zhu, 2009. Estimation Methodology used to quantify selection characteristics and examples of implementing technical measures for improving fisheries management on trawl fishery. MSc thesis, UIT.
- 19) Trond Larsen, 2009. Slepemotstand, effektivitet og fangstsammensetning i fiske med trål tilpasset dyreplankton. Forsøk i små skala. MSc thesis, UIT.
- 20) Ivan Tatone, 2008. Norwegian hook designs improve catch efficiency in the Adriatic bottom longline fishery. MSc thesis, UIT.
- 21) Henrik Jeuthe, 2008. Use of bubble floatation to improve copepod fisheries: Laboratory studies on the physical and behavioural interactions of *Calanus finmarchicus* and air bubbles. MSc thesis, UIT.
- 22) Clarence O.G. Colindres, 2006. Description and analysis of the white shrimp (*Litopenaeus schmitti*) fisheries in Pearl Lagoon, Atlantic coast of Nicaragua, with focus on the gear selectivity in the artisanal fleets. MSc thesis, UIT.

- 23) Lasse Rindahl, 2006. Kvalitetsfremmende kystlineteknologi – viktig bidrag til økt verdiskapning og leveringsstabilitet I fiskeriavhengige kystsamfunn? Fiskerikandidatoppgave, UiT.
- 24) Joakim Martinsen, 2006. Torsk og sild på samme kjøll – en studie av den store kystflåten driftstilpasning. Fiskerikandidatoppgave, UiT.
- 25) Manu Sistiaga Berrondo, 2004. Efficiency and selectivity of pair trawlers and stern trawlers; a case study of the Barents Sea cod. MSc thesis, UiT.
- 26) Robert Jeremiah Kayanda, 2004. Gillnet selectivity: A case study of Nile perch (*Lates niloticus*) fishery in Lake Victoria, Tanzania. MSc thesis, UiT.
- 27) Stein E. Eilertsen, 2004. Fiske med havteiner – et alternativ til garn. Fiskerikandidatoppgave, UiT.
- 28) Jørgen Vollstad, 2003. Artsselektivt fiske med snurrevad. Fiskerikandidatoppgave, UiT.
- 29) Eduardo Grimaldo, 2002. Experiments with by-catch sorting devices in deep water shrimp trawls. MSc thesis, UiT.
- 30) Tomas Sagen, 2001. Selektivt reketråliske med skillerist av plast. Fiskerikandidatoppgave, UiT.
- 31) Erlend Maurstad, 1997. Selektivt fiske etter dypvannsreker (*Pandalus borealis*). Etablert teknologi vurdert opp mot ny type skillerist. Fiskerikandidatoppgave, UiT.
- 32) Sverre Hansen, 1996. Miljøtilpasset ledegarn for kilenot etter laks. Fiskerikandidatoppgave, UiT.
- 33) Bernt Bertelsen, 1994. Bestandsutvikling og bestandsstruktur hos rognkjeks og rognkall (*Cyclopterus lumpus* L.) i Sifjorden i Troms, og maskeseleksjon og fangsteffektivitet ved garn- og rusefiske etter arten. Fiskerikandidatoppgave, UiT.
- 34) Joel Kristjansson, 1993. Tilgjengelighet og vertikalfordeling av reke (*Pandalus borealis*) 0-8 m over bunn. Fiskerikandidatoppgave, UiT.
- 35) Jon Einar Marteinson, 1991. Skader på fisk som sorteres ut i fiske med bunntrål. Fiskerikandidatoppgave, UiT.
- 36) Halvard Godøy, 1988. Garnfiske med agn. Studie på en begrenset fjordlokalitet. Fiskerikandidatoppgave, UiT.

LECTURES:

- Larsen, Roger B. 2021: Materials for fishing gears. Lecture for Dsolve partners. Presentation, 41 pp. (In Norwegian).
- Larsen, Roger B. 2021: Principles for capture in marine fisheries. Lecture for Dsolve partners. Presentation, 20 pp. (In Norwegian)
- Larsen, Roger B. 2018: Kunnskapsstatus om fiske med bunntrål i norske farvann. Med fokus på trålfisket nord av 62°N. Lectures for the Coast Guard, Haakonvern, Bergen, 38 pp. (In Norwegian).
- Larsen, Roger B. 2018: Seleksjon i mobile fiskeredskaper og artikkelsamling. Kompendium 134 sider.
- Larsen, Roger B. 2014: Basic facts about trawl fisheries and equipment used. Lectures for the Coast Guard, Haakonvern, Bergen. 24 pp. (In Norwegian).
- Larsen, Roger B. 2014: The Danish seine fisheries and live capture of fish. Lectures for the Coast Guard, Haakonvern, Bergen, 23 pp. (In Norwegian).
- Larsen, Roger B. 2013: Selectivity in modern Norwegian trawl fisheries, techniques used and calculations. Lectures for the Coast Guard, Haakonvern, Bergen, 31 pp. (In Norwegian).
- Larsen, Roger B. 2013: Sorting grids used in the northern fisheries, results from fish trawls and challenges. Lectures for the Coast Guard, Haakonvern, Bergen, 20 pp. (In Norwegian).
- Larsen, Roger B. 2013: Lectures on world fisheries, fishing methods, selectivity, hydro acoustics for the UiT course BIO-3556 Fishery biology and harvest technology. The College of Fishery Science, University of Tromsø. 150 pp.
- Larsen, Roger B. 2013: Lectures on Norwegian fisheries, basic principles of common fishing methods, selectivity, hydro acoustics and the echo integration method for the UiT course MTE-2001 Technology of the Norwegian Marine fisheries. The College of Fishery Science, University of Tromsø. 250 pp. (In Norwegian).

- Larsen, Roger B. 2012. Norwegian fisheries, how we harvest the marine stocks and examples of research areas. Student exchange Murmansk-Tromsø.
- Larsen, Roger B. 2011. Harvest technology in the Norwegian Marine fisheries and recent research areas. Student exchange Murmansk-Tromsø.
- Larsen, Roger B. 2007: No pain – no gain? Expectations to results in a selective fishery. Presentation for the Dantrawl Seattle Flume tank course, Hirtshals. October 2007. 18 pp.
- Larsen, Roger B. 2007: Selectivity experiments in the Barents Sea trawl fishery using codends with conventional diamond mesh, sorting grids and escape panels and the importance of fish behaviour knowledge. Presentation for the Dantrawl Seattle Flume tank course, Hirtshals. October 2007. 20 pp.
- Larsen, Roger B. 2007: An overview of my College, my students and projects involving harvest technology. Presentation for the Dantrawl Seattle Flume tank course, Hirtshals. October 2007. 20 pp.
- Larsen, Roger B. 2007: Selectivity experiments and minimum requirements. Presentation for the Dantrawl Seattle Flume tank course, Hirtshals. October 2007. 20 pp.
- Larsen, Roger B. 2003: Trawl fisheries of Norway. Lectures and course-instructions. The College of Fishery Science, University of Tromsø. 80 pp (In Norwegian).
- Larsen, Roger B. 2003: Fishing methods, behavior of fish and selective gears. Lectures. The College of Fishery Science, University of Tromsø. 183 pp (In Norwegian).
- Larsen, R.B. 1994. Lecture notes I-IV on sustainable and responsible fisheries (fishing methods, fish behaviour, selectivity & regulations). NFH. 250 pp. (in Norwegian)
- Larsen, Roger B. 1989: Construction and working principles of fishing gears. Lecture notes (High School Level). NFH. 112 pp. (in Norwegian).
- Larsen, Roger B. 1987: Selectivity of fishing gears. Institute of Fisheries, University of Tromsø. Serie E: 2/87. ISSN 0332-9569, 108 pp. (in Norwegian).
- Larsen, Roger B. 1987: Trawls used in Norway - how they work, fish behaviour and gear selectivity. Institute of Fisheries, University of Tromsø. Serie E: 1/87. 161 pp. (in Norwegian).
- Larsen, Roger B. 1986: Short note on fish behaviour and the selectivity of fishing gears. Lecture notes, University of Trondheim. Institute of Fisheries, University of Tromsø. 21 pp.
- Larsen, Roger B. 1985: Technology within aquaculture/searanching in Norway. Lecture notes. Institute of Fisheries, University of Tromsø. 35 pp. (in Norwegian).

CONFERENCE CONTRIBUTIONS/PROCEEDINGS/BOOK-CHAPTERS:

- Larsen, Roger B., Bent Herrmann, Jure Brčić, Manu Sistiaga, Kristine Cerbule, Kåre Nolde Nielsen, Nadine Jacques, Mark J.M. Lomeli, Adnan Tokaç, Elsa Cuende. Vertical separation of species can reduce bycatch in shrimp trawl fisheries, 2021. *ICES-FAO WG FTFB meeting, Bergen, Norway (online)*.
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