

## Curriculum vitae with track record: ILKER FER

**Last name, First name** : FER, Ilker  
**Researcher unique identifier** : <http://orcid.org/0000-0002-2427-2532>  
**Nationality** : Norwegian (Turkish origin)  
**Date of birth, gender** : 24.09.1973, male  
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### Current Position

Professor, physical oceanography, Geophysical Institute, University of Bergen  
Also affiliated with the Bjerknes Centre for Climate Research  
Professor (adjunct 10%), Univ. Centre in Svalbard (UNIS), Longyearbyen, Norway

### Education

2001 Ph.D. Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland  
1997 M.Sc. Institute of Science and Technology, Technical Univ. of Istanbul, Turkey  
1995 Civil engineer. Technical University of Istanbul, Turkey

### Appointments and mobility

2008 – on Professor, Geophysical Inst. (GFI), Univ. of Bergen (UoB)  
2020 – on Professor (adjunct 10%), Univ. Centre in Svalbard (UNIS), Longyearbyen  
2013 – 14 Sabbatical at Scripps Institution of Oceanography, La Jolla, USA  
2012 – 18 Scientific advisor (10%) at CMR / Offshore Sensing AS, Bergen  
2007 – 08 Associate professor, GFI, UoB  
2004 – 07 Scientist, Bjerknes Centre for Climate Research (BCCR)  
2002 – 04 Post-doctoral researcher, GFI, UoB

### Institutional Responsibilities, Leaderships

2018 – on Leader, *Norwegian National Facility for Ocean Gliders* (NorGliders)  
2015 – 20 Leader, *Physical Oceanography* Research Group, GFI, UoB  
2011 – on Scientific cruise coordinator for UoB  
2009 – 11 Leader of the program-board, GFI, UoB,  
2009 – 11 Member of the study-board of the Mat-Nat faculty, UoB  
2007 – 15 Co-leader, *Physical Oceanography* Research Group, GFI, UoB  
2006 – 13 Co-leader, *Ocean-Ice-Atmosphere Processes* Research Group, BCCR

### Awards and fellowships

2017 Georg Wüst Prize 2017  
2017 – on Honorary lifetime member of the German Society for Marine Research  
2017 – on Member of the Norwegian Scientific Academy for Polar research  
2002 – 04 Postdoctoral Scholarship (FRINAT, Research Council of Norway)

## Commissions of Trust and other relevant professional experiences

2020 – on	Chair (one of 3), SCOR Working Group 160, ATOMIX
2019 – on	Member, Steering Team for Ocean Gliders at JCOMMOPS
2018 – on	Member, Research Infrastructure Coordination Committee in SIOS
2018 – on	Member, Review Panel for German Research Vessels
2019 – on	Editor, <i>Ocean Science</i> (open access journal, Copernicus)
2016 – on	Editor, <i>Journal of Physical Oceanography</i> (journal, American Met Soc.)
2017 – 2019	Editor, <i>Ocean Dynamics</i> (journal, Springer)
2012 & 2019	Slocum Webb glider piloting training

External reviewer and committee member for the PhD theses of B. Scheifele (Univ. of British Columbia, Canada), E. van der Lee (Leibniz-Inst. for Baltic Sea Research, Germany), T. Beitzel (LOCEAN-UPMC, France), F. Jardon (LOCEAN-UPMC, France).

Evaluator for professor-level promotions for several institutions in Norway, Sweden, USA and Germany.

Active reviewer for scientific journals including JPO, JGR, GRL, CSR, DSR, L&O, JTECH, Ocean Sci., Ocean Dyn., Aquatic Sci. Reviewer for national research agencies for USA, UK, Sweden, Germany, France and New Zealand.

## Research Expeditions Led

Led more than 25 expeditions at sea or sea ice since 2000, including the North Pole drift stations Borneo (2007 and 2008). Last 5 years:

R/V G.O. SARS	(# 2020 113), the Nansen LEGACY process cruise, Barents Sea
R/V Kristine Bonnevie	(# 2019 616), technology test cruise, the Nansen LEGACY
R/V Kronprins Haakon	(# 2018 709), the Nansen LEGACY cruise, North of Svalbard
R/V Kristine Bonnevie	(# 2018 616), the Nansen LEGACY cruise, North of Svalbard
R/V Kristine Bonnevie	(# 2017 618), Mixing in the Lofoten Basin
R/V Kristine Bonnevie	(# 2017 606), Mixing in the Lofoten Basin
R/V Håkon Mosby	(# 2016 611), Vortex dynamics and mixing in Lofoten Basin

## Scientific Projects (last 10 years)

2020 – 25	NorEMSO, The Norwegian node for the European Multidisciplinary Seafloor and water column Observatory, Project leader, RCN (INFRASTRUKTUR)
2021 – 23	GROOM-II, Gliders for Research, Ocean Observation and Management. Participant, EU HORIZON 2020
2019 – 23	Arctic Ocean mixing processes and vertical fluxes of energy and matter, Project leader, RCN (KLIMAFORSK)
2016 – 20	Watermass transformation processes and vortex dynamics in the Lofoten Basin of the Norwegian Sea, Project leader, RCN (FRINAT)
2014 – 17	On Thin Ice: Role of Ocean Heat Flux in Sea Ice Melt, Project leader, RCN (NORKLIMA)
2011 – 15	Faroe Bank Channel Overflow: Dynamics and Mixing, Project leader RCN (FRINAT)

## Teaching

(on sabbatical at Scripps Institution of Oceanography, Jan.- Aug. 2013)

2007- on Physical oceanography of fjords (GEOF337); Turbulence in the ocean (GEOF310)

Introduction to dynamics of ocean and atmosphere (GEOF110);

Introduction to Master's thesis work (GEOF301)

## Advisee

Ph.D: Current: E. Kolås, , F. M. Carvajalino, K. Kallagen (co), T. Mo-Bjørkelund (co) J. S. Dugstad (2020), K. L. Daae (2018), A. K. Peterson (2017), A. Randelhoff (co-adv., 2017) , M. B. Paskyabi (2014), K. S. Sponheim (2011), F Geyer (2010, co-adv.), A. Sirevaag (2009, co-adv.), A Sundfjord (2007, co-adv.), K. Widell (2006, co-adv.)

M.Sc.: Current: n/a  
Aleksander Libæk (2020), H. Løvseth (2018), K. Hiorth (2018), E. Kolås (2017), T. Fjellsbø (2013), A. K. Peterson (2013), M. Jensen (2012), A. Meyer (2011), I. R.-Baroni (2008), K. L. Daae (2008), K. Richter (2005)

Postdoc: Z. Koenig, A. Bosse, J. Ullgren, E. Darelius, C. Guo, A. Sirevaag

## Invited talks

Gordon Science Conference on Ocean Mixing, Andover, USA (2018),

EGU, Vienna, Austria (2017),

4th pan-Arctic integration symposium, Motovun, Croatia (2017)

The Royal Society of Edinburgh, Scotland (2015).

## Tack record and list of publications

Ilker Fer

Web of Science ResearcherID<sup>®</sup>  
C-7820-2012

Faculty - Geophysical Institute, University of Bergen

PUBLICATIONS	TOTAL TIMES CITED	H-INDEX	VERIFIED REVIEWS	VERIFIED EDITOR RECORDS
113	2 193	26 <sup>®</sup>	30	139

- 112 peer-reviewed articles (first-author on 28) since 1999.
- Scholar.google.com (accessed 20 Jan 2021): total citations = 3664; h-index = 34
- Publons.com (Web of Science, accessed 31 Jan 2021): total citations = 2193; h-index = 26
- Author of 26 datasets (NMDC and PANGAEA) with DOI, all open access, since 2015

## Publication list, last 5 years, peer-reviewed articles only

(see <https://www.uib.no/en/persons/Ilker.Fer#uib-tabs-publications> for a complete list)

112. Dugstad, J., P.E. Isachsen, and **I. Fer** (2021), The mesoscale eddy field in the Lofoten Basin from high-resolution Lagrangian simulations, *Ocean Sci*, <https://doi.org/10.5194/os-2020-103>.
111. Koenig, Z, E. Kolås, and **I. Fer** (2021). Structure and drivers of ocean mixing north of Svalbard in summer and fall 2018, *Ocean Sci.*, <https://doi.org/10.5194/os-2020-77>.
110. Smith, J. A., Cessi, P., **Fer, I.**, Foltz, G., Fox-Kemper, B., Heywood, K., Jones, N., Klymak, J., and LaCasce, J. (2020). Data Availability Principles and Practice. *J. Phys. Oceanogr.* 50, 12, 3377-3378, <https://doi.org/10.1175/JPO-D-20-0266.1>
109. Kolås, E. H., Koenig, Z., **Fer, I.**, Nilsen, F., & Marnela, M. (2020). Structure and transport of Atlantic Water north of Svalbard from observations in summer and fall 2018. *J. Geophys. Res.*, 125, e2020JC016174. <https://doi.org/10.1029/2020JC016174>.
108. Kolås, E. H., Koenig, Z., **Fer, I.**, Nilsen, F., & Marnela, M. (2020). Structure and transport of Atlantic Water north of Svalbard from observations in summer and fall 2018. *J. Geophys. Res.*, 125, e2020JC016174. <https://doi.org/10.1029/2020JC016174>.
107. **Fer, I.**, Z. Koenig, I. E. Kozlov, M. Ostrowski, T. P. Rippeth, L. Padman, A. Bosse, and E. Kolås (2020), Tidally-forced lee waves drive turbulent mixing along the Arctic Ocean margins, *Geophys. Res. Lett.*, 47, <https://doi.org/10.1029/2020GL088083>.
106. Polyakov, I. V., T. P. Rippeth, **I. Fer**, T. M. Baumann, E. C. Carmack, V. V. Ivanov, M. Janout, L. Padman, A. V. Pnyushkov, and R. Rember (2020), Intensification of Near-Surface Currents and Shear in the Eastern Arctic Ocean, *Geophys. Res. Lett.*, e2020GL089469, <https://doi.org/10.1029/2020gl089469>.
105. Polyakov, I. V., T. P. Rippeth, **I. Fer**, M. B. Alkire, T. M. Baumann, E. C. Carmack, R. Ingvaldsen, V. V. Ivanov, M. Janout, S. Lind, L. Padman, A. V. Pnyushkov, and R. Rember (2020), Weakening of cold halocline layer exposes sea ice to oceanic heat in the eastern Arctic Ocean, *J. Climate*, <https://doi.org/10.1175/jcli-d-19-0976.1>.
104. **Fer, I.**, A. Bosse, and J. Dugstad (2020), Norwegian Atlantic Slope Current along the Lofoten Escarpment, *Ocean Sci.*, 16, 685-701, <https://doi.org/10.5194/os-16-685-2020>.
103. Bruvik, E. M., **I. Fer**, K. Våge, and P. M. Haugan (2020), A revised ocean glider concept to realize Stommel's vision and supplement Argo floats, *Ocean Sci.*, 16, 291-305, <https://doi.org/10.5194/os-16-291-2020>.
102. Carvajalino-Fernández, M. A., N. B. Keeley, **I. Fer**, B. A. Law, and R. J. Bannister (2020), Effect of substrate type and pellet age on the resuspension of Atlantic salmon faecal material, *Aquaculture Environment Interactions*, 12, 117-129, <https://doi.org/10.3354/aei00350>.
101. Koenig, Z., I. Fer, E. Kolås, T. O. Fossum, P. Norgren, and Martin Ludvigsen (2020). Observations of turbulence at a near-surface temperature front in the Arctic Ocean, *J. Geophys. Res.*, 125, e2019JC015526, <https://doi.org/10.1029/2019jc015526>.
100. Dugstad, J., I.M. Koszalka, P.E. Isachsen, K.-F. Dagestad and **I. Fer** (2019), Vertical structure and seasonal variability of the inflow to the Lofoten Basin inferred from high resolution Lagrangian simulations, *J. Geophys. Res.*, <https://doi.org/10.1029/2019JC015474>.
99. Bosse, A. and **I. Fer** (2019), Mean structure and seasonality of the Norwegian Atlantic Front Current along the Mohn Ridge from repeated glider transects, *Geophys. Res. Lett.*, 46. <https://doi.org/10.1029/2019GL084723>.
98. Carr M. and 10 co-authors incl. **I. Fer** (2019), Laboratory Experiments on Internal Solitary Waves in Ice-Covered Waters, *Geophys. Res. Lett.*, <https://doi.org/10.1029/2019GL084710>.
97. Bosse, A., **I. Fer**, J. M. Lilly, and H. Søyland (2019), Dynamical controls on the longevity of a non-linear vortex: ..., *Scientific Reports*, 9, 13448, <https://doi.org/10.1038/s41598-019-49599-8>.

96. Graham, R. M. and 28 co-authors incl. **I. Fer**, (2019), Winter storms accelerate the demise of sea ice in the Atlantic ., *Scientific Reports*, 9, 9222, <https://doi.org/10.1038/s41598-019-45574-5>.
95. Roemmich, D. and 79 co-authors incl. **I. Fer**, (2019), On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array, *Frontiers in Marine Science*, 6, <https://doi.org/10.3389/fmars.2019.00439>.
94. Testor, P. and 101 co-authors incl. **I. Fer** (2019), OceanGliders: A Component of the Integrated GOOS, *Frontiers in Marine Science*, 6, 10.3389/fmars.2019.00422.
93. Renfrew, I. A. and 65 co-authors incl. **I. Fer** (2019), The Iceland Greenland Seas Project, *B. Am. Meteorol. Soc.*, 100, 1795–1817, 10.1175/bams-d-18-0217.1.
92. Dugstad, J., **I. Fer**, J. LaCasce, M. Sanchez de La Lama, and M. Trodahl (2019), Lateral Heat Transport in the Lofoten Basin: ..., *J. Geophys. Res.*, 124, 10.1029/2018jc014774.
91. Menze, S., R. B. Ingvaldsen, P. Haugan, **I. Fer**, A. Sundfjord, A. Beszczynska-Moeller, and S. Falk-Petersen (2019), Atlantic Water Pathways ....., *J. Geophys. Res.*, 124, 10.1029/2018jc014299.
90. Daae, K., **I. Fer**, and, E. Darelius (2019), Variability and Mixing of the Filchner Overflow Plume on the Continental Slope, Weddell Sea, *J. Phys. Oceanogr.*, 49, 3-20, 10.1175/jpo-d-18-0093.1.
89. Kolås, E. and **I. Fer** (2018), Hydrography, transport and mixing of the West Spitsbergen Current: the Svalbard Branch in summer 2015, *Ocean Sci.*, 14, 1603-1618, 10.5194/os-14-1603-2018
88. Bosse, A., **I. Fer**, H. Søliland, T. Rossby (2018), Atlantic Water transformation along its poleward pathway across the Nordic Seas, *J. Geophys. Res.*, 10.1029/2018JC014147.
87. **Fer, I.**, A. Bosse, B. Ferron, and P. Bouruet-Aubertot (2018), The dissipation of kinetic energy in the Lofoten Basin Eddy, *J. Phys. Oceanogr.*, 10.1175/JPO-D-17-0244.1.
86. Granskog, M. A., **I. Fer**, A. Rinke, and H. Steen (2018), Atmosphere-Ice-Ocean-Ecosystem Processes in a Thinner Arctic Sea Ice Regime: ....., *J. Geophys. Res.*, 123, 10.1002/2017JC013328.
85. Daae, K., E. Darelius, and **I. Fer**, S. Østerhus, and S. Ryan (2017), Wind stress mediated variability of the Filchner Trough overflow, Weddell Sea, *J. Geophys. Res.*, 123, 10.1002/2017JC013579.
84. Guthrie, J., **I. Fer**, and J. Morison (2017). Thermohaline Staircases in the Amundsen Basin: possible disruption by shear and mixing. *J. Geophys. Res.*, 10.1002/2017JC012993.
83. **Fer, I.**, A. K. Peterson, A. Randelhoff, and A. Meyer (2017), One-dimensional evolution of the upper water column in the Atlantic sector of the Arctic ....., *J. Geophys. Res.*, 10.1002/2016JC012431.
82. Lu-Sha Yu, A. Bosse, **I. Fer**, K. A. Orvik, E. M. Bruvik, I. Hessevik, and K. Kvalsund (2017), The Lofoten Basin Eddy: .... as observed by Seagliders, *J. Geophys. Res.*, 10.1002/2017JC012982
81. Meyer, A., **Fer, I.**, Sundfjord, A. and Peterson, A. K. (2017), Mixing rates and vertical heat fluxes north of Svalbard from Arctic winter to spring. *J. Geophys. Res.*, 10.1002/2016JC012441
80. Bakhoday-Paskyabi, M., **I. Fer**, and J. Reuder (2017), Current and turbulence measurements at the FINO1 offshore wind energy site: ..., *Ocean Dyn.* 10.1007/s10236-017-1109-5.
79. Daae, K., T. Hattermann, E. Darelius, and **I. Fer** (2017), On the effect of topography and wind on warm water inflow—An idealized study of ..., *J. Geophys. Res.*, 10.1002/2016JC012541.
78. Peterson, A. K., **I. Fer**, M. G. McPhee, and A. Randelhoff (2017), Turbulent heat and momentum fluxes in the upper ocean under Arctic Sea Ice, *J. Geophys. Res.*, 10.1002/2016JC012283.
77. Randelhoff, A., **I. Fer**, and A. Sundfjord (2017), Turbulent upper-ocean mixing affected by meltwater layers during ..., *J. Phys. Oceanogr.* 835-853, 10.1175/jpo-d-16-0200.1.
76. Meyer, A., A. Sundfjord, **I. Fer**, et al. (2017), Winter to summer oceanographic observations in the Arctic Ocean north of Svalbard, *J. Geophys. Res.*, 10.1002/2016JC012391.