

## Short CV – Ken Haste Andersen

### Degrees

- PhD, Niels Bohr Institute, Copenhagen University, Denmark (1999).
- MSc, Roskilde University, Denmark (1995).

### Positions

- Visiting Researcher at Ecology and Evolutionary Biology, Princeton University, USA (2016).
- Head of Section (2014-present), Deputy Centre Leader, Centre for Ocean Life (2012-present).
- Professor in Theoretical Marine Ecology, DTU Aqua, Technical University of Denmark (since 2011) and
- Associate Professor, DTU Aqua (2009-2011).
- Senior Scientist, DTU Aqua, (2005-2009).
- Researcher, Danish Institute for Fisheries Research (DIFRES) (2003-2005).
- External Lecturer in physics, Roskilde University, Denmark (2003-2005).
- Developer of 3D laser scanners and 3D modelling software, 3Shape.com (2002-2003).
- Assistant Professor, Institute of Hydraulic Research, Technical University of Denmark (1999-2002).
- PostDoc, "La Sapienza", Institute of Physics, Rome, Italy (1999-2000).

### Research area

Understanding the response of marine ecosystems to perturbations, in particular fishing, on both ecological and evolutionary time-scales. Plankton ecology. Fundamental problems in theoretical evolutionary ecology.

### Memberships of scientific committees, 2011-present

Leader of the national Marine Ecological Modelling Centre (2010-2014).

### Review, 2011-present

- On PhD committees at Wageningen University, Lund University, Oslo University, and York University.
- Subject editor for ICES Journal of Marine Science.
- Reviewer for numerous journals in ecology and fisheries science: PNAS, Ecology Letters, American Naturalist, Canadian Journal of Fisheries and Aquatic Science, Proc. of the Royal Soc. London B, J. Theor. Biology, Oikos, Evolutionary Ecology, and others.
- On evaluation committees for professor and senior researcher evaluations nationally and internationally.

**Peer reviewed publications:** >78. **Books and book chapters:** 2. **International conferences:** >20.

### Advisory tasks, 2011-present

- MSC certification of Danish reduction fisheries and Swedish herring fishery (2015-2016)
- Consultant to the European Commission in defining research priorities for the marine environment (2011-2013).
- ICES working groups on physical-biological interactions (WGPBI), fish ecology (WGFE), and evolutionary effects of fishing (WGEVO), and ICES advice drafting groups on the impact of fisheries (ADGFIMP).

### Educational tasks, 2011-present

Developed and responsible for DTU courses in 25303 Mathematical Biology, 25314 Computational Ecological Modelling, 25323 Topics in Aquatic Science and Technology. Co-responsible for 25328 Mathematical Models in Ecology.

### Supervision, 2011-present

**PhD students:** 5 (Main Supervisor); 5 (Co-supervisor). **Master students:** 5 (Main Supervisor).  
**Postdocs:** 5 (Main Supervisor).

### Grants, 2011-present

PI in Marmead Initial Training Network (starting October 2015); Centre for Ocean life, VKR Center of excellence (2012-2017 (Deputy Centre Leader). See [www.oceanlifecentre.dk](http://www.oceanlifecentre.dk); PI in Nordic of Excellence: 'Climate Change Effects on Marine Ecosystems and Resource Economics' (2011-2015); Two H.C. Ørsted grants for postdocs.

### Five selected publications

Andersen KH, Berge T, Gonçalves RJ, Hartvig M, Heuschele J, Hylander S, Jacobsen NS, Lindemann C, Martens EA, Neuheimer AB, Olsson K, Palacz A, Prowe F, Sainmont J, Traving SJ, Visser AW, Wadhwa N, Kjørboe T. (2016). Characteristic Sizes of Life in the Oceans, from Bacteria to Whales. *Annual Reviews in Marine Science*. doi: 10.1146/annurev-marine-122414-034144.

Andersen KH, Brander K, Ravn-Jonsen LJ. (2015). Trade-offs between objectives for ecosystem management of fisheries. *Ecological Applications* 25, 1390-1396.

Andersen KH, Beyer JE. (2015). Size structure, not metabolic scaling rules, determines fisheries reference points. *Fish and Fisheries*, 16(1), 1-22.

Neuheimer AB, Hartvig M, Heuschele J, Hylander S, Kjørboe T, Olsson KH, Sainmont J, Andersen KH. (2015). Adult and offspring size in the ocean over 17 orders of magnitude follows two life history strategies. *Ecology*, 96(12), 3303–3311.

Hartvig M, Andersen KH, Beyer JE. (2011). Food web framework for size-structured populations. *J. Theo. Biol.* 272(1), 113-122.