

## Short CV – Henrik Baktoft

### Degrees

- PhD, DTU Aqua, Technical University of Denmark (2012).
- MSc (Biology) Faculty of Science, Aarhus University, Denmark (2003).

### Positions

- Researcher, DTU Aqua, Technical University of Denmark (2015-present).
- Postdoc, DTU Aqua (2012-2014).

### Research area

Behaviour of wild fish in their natural environment. Main focus is analysis and modelling of data from various telemetry methodologies such as pit-tags, pop-off satellite tags, and acoustic positional telemetry system. The latter includes development of positioning models to maximize data quality and expanding opportunities by facilitating sub-meter positioning of tagged fish in three spatial dimensions.

### Review, 2011-present

Reviewer for a number of international journals including *Oecologia*, *Reviews in Fish Biology and Fisheries* and *Animal Biotelemetry*.

**Peer reviewed publications: 22. Reports: 7. International conferences: 3.**

### Supervision, 2011-present

**PhD students:** 1 (Co-supervisor).

### Grants, 2011-present

- The Research Council of Norway: Development and feasibility test of an acoustic positional telemetry system to study behaviour of salmon smolts in three dimensions (2014, PI).
- Centre for Environmental Design of Renewable Energy (CEDREN, Norway): Safe and efficient two-way migration for salmonids and European eel past hydropower structures (SafePass) (2015-2018, PI).
- Danish Rod and Net Fish License Funds: Data handling, processing and statistical analyses on multiple projects (2011-present).

## Five selected publications

Baktoft H, Jacobsen L, Skov C, Koed A, Jepsen N, Berg S, Boel M, Aarestrup K, Svendsen JC. (2016). Phenotypic variation in metabolism and morphology correlating with animal swimming activity in the wild: relevance for the OCLTT (oxygen- and capacity-limitation of thermal tolerance), allocation and performance models. *Conserv. Physiol.*, 4, 1–14, 10.1093/conphys/cov055.

Baktoft H, Zajicek P, Klefoth T, Svendsen JC, Jacobsen L, Pedersen MW, Morla DM, Skov C, Nakayama S, Arlinghaus R. (2015). Performance Assessment of Two Whole-Lake Acoustic Positional Telemetry Systems - Is Reality Mining of Free-Ranging Aquatic Animals Technologically Possible? *PLoS One* 10(5), e0126534, 10.1371/journal.pone.0126534.

Aarestrup K, Baktoft H, Thorstad E, Svendsen J, Höjesjö J, Koed A. (2015). Survival and progression rates of anadromous brown trout kelts *Salmo trutta* during downstream migration in freshwater and at sea. *Mar. Ecol. Prog. Ser.* 535, 185–195, 10.3354/meps11407.

Baktoft H, Aarestrup K, Berg S, Boel M, Jacobsen L, Jepsen N, Koed A, Svendsen JC, Skov C. (2012). Seasonal and diel effects on the activity of northern pike studied by high-resolution positional telemetry. *Ecol. Freshw. Fish* 21(3), 386–394, 10.1111/j.1600-0633.2012.00558.x.

Baktoft H, Aarestrup K, Berg S, Boel M, Jacobsen L, Koed A, Pedersen MW, Svendsen JC, Skov C. (2013). Effects of angling and manual handling on pike behaviour investigated by high-resolution positional telemetry. *Fish. Manag. Ecol.* 20(6), 518–525, 10.1111/fme.12040.