

## CV – Jane Windfeldt Behrens

Year of birth: 1971

Address: Borups Alle 137 4<sup>th</sup>, 2000 Frederiksberg, Denmark

Civil status: Married, son Aksel (born December 2007)

Citizenship: Danish

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## EDUCATION

MSc in respiratory physiology, Department of Zoophysiology, Aarhus University, Denmark (December 17<sup>th</sup> 1999)

PhD in fish ecophysiology, Marine Biological Laboratory, University of Copenhagen, Denmark (August 9<sup>th</sup> 2007)

## POSITIONS

Senior Scientist in fish ecophysiology, National Institute of Aquatic Resources, Technical University of Denmark (DTU Aqua) (2015, permanent position)

Research Scientist in fish ecophysiology, DTU Aqua (permanent position 2012-2014)

Postdoc, Department of Biological and Environmental Sciences, Gothenburg University (2009-2012) & DTU Aqua

Research Assistant, School of Dentistry, Copenhagen, Denmark (2002-2003)

Research Assistant, University of Aarhus, Aarhus, Denmark (2001-2002)

Research Assistant, University of Canterbury, Canterbury, New Zealand (2000-2001)

## LEAVES

Maternity Leave (12 months from November 20<sup>th</sup> 2007)

## SCIENTIFIC FOCUS AREAS

Fish ecophysiology, involving experimental and field investigations of physiological and behavioural responses and adaptations to biotic and abiotic factors in the environment. Optimal behavioural strategies and habitat requirements, including internal and external drivers, bioenergetics, physiological requirements and constraints. Tolerances and thresholds for dispersal and establishment of invasive fish. Fish welfare in the fishery.

**WEB OF SCIENCE PUBLICATIONS: 48. Citations: 1026. *h*-index: 17 Reports: 13**

## INSTITUTIONAL RESPONSIBILITIES

Manager of Fish Biology experimental facility in the Blue Unit (2017-)

Research based public sector consultancy (2016-)

Board member of the statutory DTU Aqua Animal Welfare Organ (2014-)

Advice on animal ethical matters for the committee of the H.C. Ørsted COFUND postdoc programme (2014-2017)

## ADVISORY TASKS INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA (ICES)

Chair for The Workshop on round goby and stickleback in the Baltic Sea (WKSTARGATE 2022)

Member of Workshop on Evaluation of Input data to Eastern Baltic Cod Assessment (WKDEBCA 2018)

Member of Workshop on Biological Input to Eastern Baltic Cod Assessment (WKBEBCA 2017)

Member of the Scoping Workshop on Integrated Baltic Cod Assessment (WKSIBCA 2014)

## **MEMBERSHIPS OF SCIENTIFIC COMMITTEES**

Working Group on Introduction and Transfers of Marine Organisms (WGITMO) (2020-)

## **COMMITTEE WORK:**

Expert reviewer for the Latvian Science Council evaluating the project 'Role of invasive species *Neogobius melanostomus* in the functioning of Baltic Sea underwater protected habitats' (2023)

Member of Steering Group for the Swedish FORMAS project "Round goby – turning risk to resource" (2021-2023)

Member of evaluation committee for PhDs: Javed Khan (2016), Andreas Ekström (2017), Shao Zuo (2019), Camila Håkonsrud Jensen (2020)

Member of employment committees for position as i) Associate professor of Veterinary Aquatic Pathobiology (Copenhagen University 2018), ii) Researcher on Interactions between Fisheries and Protected, Endangered and Threatened Species (DTU Aqua, 2019), iii) Researcher in Aquatic Animal Health (DTU Aqua, 2020)

## **REVIEW**

Reviewer for 10+ peer-reviewed international journals e.g. ICES Journal of Marine Science, Conservation Physiology, Marine Ecology Progress Series, Biological Invasions, Journal of Marine Systems, Fish Biology, Estuarine and Coastal Marine Science, Journal of Experimental Marine Biology and Ecology, Fisheries Research, Journal of Thermal Biology, Journal of Experimental Biology, Evolutionary Applications

## **SUPERVISION OF PHD STUDENTS AND POSTDOCS**

PhD L. Green (2015-2020, co-supervision); Postdoc C. Methling (2016 main supervisor); PhD M. P. Ryberg (2017-2020, main supervisor); Postdoc E. Christensen (2018-2019, main supervisor), Postdoc T. Norin (2018-2020, main supervisor), Postdoc N. Moran (2020-2022, main supervisor) Postdoc M. P. Ryberg (2021-2022, main supervisor), PhD Magnus Heide Andreasen (2021-2024; co-supervisor)

## **INVITED TALKS**

EuroFish conference Opportunities in a rapidly changing world, Vilnius, Lithuania 'Round goby as a potential new resource' (2022)

The Society of Experimental Biology Annual Science Conference, Theme session Individual variation in infection-induced phenotypes in animal hosts: Mechanisms and implications from individuals to ecosystems, Montpellier, France 'Infection-induced phenotypes in cod with liver worm *C. osculatum*' (2022)

The Baltic Sea Advisory Council (BSAC), Copenhagen, Denmark 'Cods liver worm; effects and pan-Baltic monitoring' (2022)

The Danish Fisheries Agency, Copenhagen, Denmark 'The seal-associated cods liver worm: Occurrence, effects and pan-Baltic monitoring' (2021)

The Baltic Sea Fisheries Forum (BALTFISH), Gothenburg, Sweden 'The seal-associated cods liver worm (*Contracaecum osculatum*): Life cycle, status in Eastern Baltic cod and other transport hosts, potential effects on cod health status – and may history teach us something?' (2019)

The Danish Parliament, Copenhagen, Denmark 'Seal-related liver worm in Baltic cod, status and effects' (2019)

The Baltic Sea Advisory Council (BSAC), Copenhagen, Denmark 'The seal-associated cods liver worm (*Contracaecum osculatum*) in Eastern Balt cod' (2019)

EUfishmeal conference Forage fish, marine mammals, and optimal fisheries yields, Copenhagen, Denmark 'The potential direct and indirect effects of grey seal on Baltic cod' (2018)

The Danish Fishermen's Association, Bornholm, Denmark 'The seal-associated cods liver worm (*Contracaecum osculatum*) in cod' (2018)

Bioeconomy – agricultural and fishery challenges for the future, Kalmar, Sweden 'Working towards sustainable use of the invasive round goby in favour for the fishery and the environment' (2018)

National Aquarium Den Blå Planet, Denmark 'Salinity tolerance of the invasive round goby' (2015)

The Linnaeus Centre for Marine Evolutionary Biology (CeMEB) 18th Assembly, Tjärnö, Denmark 'Dispersal potential of the round goby – how plastic are they?' (2017)

Danish Engineer Society, Aalborg, Denmark 'Why are Baltic cod in such poor condition?' (2014)

International Symposium on Fish Models in Research/DAFINET, Copenhagen, Denmark 'Cod as model in experimental research' (2014)

## GRANTS

### Main applicant and project manager/PI

Espersens Foundation: Is there an association between liver index, liver worm load, and the capacity to mature in Eastern Baltic cod? (2023-2024; 33.600 Euro)

European Maritime and Fisheries Fund (EMFF): Biological press factors limiting the growth of Eastern Baltic cod (TORVÆKST) (2021-2023; 273.973 Euro)

Espersens Foundation: Cod liver worm: Status and monitoring (2020; 33.600 Euro)

European Maritime and Fisheries Fund (EMFF): Seal-related liver worm in Eastern Baltic cod: Status, effects and biological input for management (TESLO) (2018-2020; 209.232 Euro)

Nordic Council of Ministers: Value of the invasive round goby (*Neogobius melanosomus*) as prey for cod (*Gadus morhua*) (2018; 54.000 Euro)

European Maritime and Fisheries Fund (EMFF): Effects of seal-related liverworm on growth and condition of Baltic cod (2017-2019; 118.300 Euro)

Espersens Foundation: Mapping the depth distributions of round goby in relation to a targeted fishery for human consumption (2016-2017; 33.600 Euro)

Ministry of Food, Agriculture and Fisheries of Denmark: Sustainable use of the invasive round goby in favour of industry and environment (SORTMUND) (2016-2019; 650,400 Euro)

Nordic Council of Ministers: Round goby: Need for collaborative science and management in Nordic and Baltic countries (2014; 50.00 Euro)

Ministry of Food, Agriculture and Fisheries of Denmark: Selective and low impact gear for fishing live nephrops (2013-2015; 957,000 Euro)

Carlsberg Foundation: Cardiorespiratory adaptations in cod foraging under hypoxic condition (2009-2012; 243,000 Euro)

### Co-applicant and WP lead/Research Scientist

Interreg Baltic Sea Region: Promoting commercial fishing of round goby in the Baltic Sea (2023-2026; 2,973,587 Euro; Research Scientist)

The European Climate, Infrastructure and Environment Executive Agency 'Invasive species in the Baltic Sea and their impact on commercial fish stocks' (2022-2024; 149,955 Euro; Research Scientist)

BalticWaters 2030, Sweden: Do parasites and hypoxia prevent a recovery of Eastern Baltic cod? (2023-2024; 1.000.000 SEK; Research Scientist)

Ministry of Food, Agriculture and Fisheries of Denmark: Extraction of omega-3 oils from invasive marine species by the use of green technology (GrExOmega) (2022-2024; 987.969 Euro; Research Scientist)

Open Philanthropy: Humane Slaughter in Pelagic Fishery (2021-2023; 282.708 USD; Research Scientist)

The Swedish Institute: Goby fishing; A new resource? Investigating potential of commercial fishing of round goby in the Baltic Sea (2019-2020; 46,500 EUR; Research Scientist)

H2020: PARadigm for New Dynamic Ocean Resource Assessments and exploitation (PANDORA) (2018-2022; 5,598,388 Euro; WP lead and Research Scientist)

International Council for the Exploration of the Sea (ICES): Developing species specific Heat Shock Protein (HSP) sequences for the invasive round goby (2015-2016; 11,800 Euro; Research Scientist)

BONUS: Biodiversity changes - causes, consequences and management implications (BIO-C3) (2014-2018; 607,000 Euro; Research Scientist)

Commision for Greenlandic Studies: Monitoring and modelling vertical movements of Greenland halibut in Disko Bay (2010-2011; 71,000 Euro; Research Scientist)

## **INNOVATION ACTIVITIES**

Innovative collaboration with the Danish fishery sector, the fish processing sector and DTU Food in the SORTMUND project, and continued in the GrExOmega project. Innovation relating to improved ethics in the pelagic fishery, in collaboration with the Danish fishery sector, Technological Institute, Swedish University of Agricultural Sciences *SLU* and Animal Welfare Denmark

## **DISTINCTIONS AND AWARDS**

Best Oral Presentation, VIIIth International Congress on the Biology of Fish, St. John's, Newfoundland, Canada (2006)

## **INTERNATIONAL RELATIONS**

Broad international network/collaboration through participation in/lead of various Nordic and European projects, e.g. with Thünen Institute of Baltic Sea Fisheries, University of Tartu, Institute of Food Safety Animal health and Environment *BIOR* (Lithuania), Swedish University of Agricultural Sciences *SLU*, Gothenburg University, Finnish Environment Institute

## **COURSES**

User workshop in microsensor technology and application, Unisense, Aarhus (2013)

Micro-surgery; from mouse to fish. University of Gothenburg, Sweden (2011)

Laboratory Animal Science, FELASA C. University of Copenhagen (2010)

## **OUTREACH POPULAR SCIENCE**

30+ contributions since 2016 to articles in newspapers (e.g. [Weekendavisen BIO-C3 cruise with cover.pdf](#), <https://ekstrabladet.dk/nyheder/videnskab/havets-svar-paa-draebersneglen-oversvoemmer-danmark/5716811?ilc=c>), trade magazines (Fiskeritidende e.g. [Fiskeritidende feb 2017.pdf](#) <https://fiskeritidende.dk/nyheder/fiskeri/2020/oktober/leverorm-giver-torsk-alvorlige-leverskader/> FiskerForum e.g. <https://fiskerforum.dk/saeler-er-skyld-i-leverkraeft-og-skrumpelever-hos-torsk/>, Danske Fritidsfiskere [Danske Fritidsfiskere nr. 6-2021 by Danske Fritidsfiskere - Issuu](#) page 23-24), *Aktuel Naturvidenskab* ([Aktuel Naturvidenskab med parasit historie.pdf](#) page 32), *Kaskelot* ([Kaskelot side 32.pdf](#) page 32). Interviews national radio on round goby and Eastern Baltic cod, national TV on Eastern Baltic cod (TV2 News) and welfare in fishery e.g. [https://www.tv2nord.dk/frederikshavn/fisk-foeler-smerte-skaansomme-fangstmetoder-skal-undersoeges?fbclid=IwAR3jN-3ffC0JWSLUTpouZ6yvpG6ExcaF4IsMofNSMY80tL35pXJ8\\_NKXQaY](https://www.tv2nord.dk/frederikshavn/fisk-foeler-smerte-skaansomme-fangstmetoder-skal-undersoeges?fbclid=IwAR3jN-3ffC0JWSLUTpouZ6yvpG6ExcaF4IsMofNSMY80tL35pXJ8_NKXQaY) Podcast on 'skinny cod' <https://www.lagas.dk/nyheder/nyhed?id=6DF9EC56-DD09-4323-9C36-22B2B7A7810A>