

# Curriculum Vitae

## **Personal**

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Name	P. Daniël van Denderen
Email	pdvd@aqua.dtu.dk
Date of birth	22-12-1986
Place of birth	Leeuwarden, the Netherlands

## **Professional experience**

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2021 – present	Scientist, Centre for Ocean Life, Technical University of Denmark – includes a 2-year stay at Graduate School of Oceanography, University of Rhode Island, United States
2016 – 2021	Research assistant/consultant, International Council for the Exploration of the Sea, Copenhagen, Denmark
2015 – 2020	Postdoctoral fellow, Centre for Ocean Life, Technical University of Denmark
2015	Postdoctoral fellow, Wageningen University, the Netherlands (3 months)

## **Education**

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2011 – 2015	PhD, Wageningen Marine Research, Wageningen University, the Netherlands Thesis: Ecosystem Effects of Bottom Trawl Fishing, <i>cum laude</i>
2008 – 2010	MS, Animal Biology, Leiden University, the Netherlands, <i>cum laude</i>
2005 - 2008	BS, Biology, Leiden University, the Netherlands

## **Research interests**

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I examine the importance of benthic-pelagic coupling processes for the structure of marine fish communities and energy flow. This is done using trait-based modelling approaches and analyses of global data of fish growth and fisheries catches. I further study the environmental effects of bottom trawl fisheries. I have worked at the ICES secretariat to derive scientific methods to assess fishing impacts on benthic ecosystems in European Waters.

## **Grants and fellowships**

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2021	Marie Skłodowska-Curie Actions (MSCA) Global Fellowship (3 years of research funding)
2017	Assemble plus program - co-applicant (H2020-INFRAIA-1-2016-2017): 10-day research cruise in the Baltic Sea in 2017
2015	HC Ørsted postdoctoral fellowship, Marie Curie actions co-fund postdoc DTU (2 years and 3 months of research funding)

## **Selected publications**

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van Denderen PD, Petrik CM, Stock CA, Andersen KH (2021). Emergent global biogeography of marine fish food webs, *Global Ecology and Biogeography*, 30, 1822-1834. 10.1111/geb.13348

- Soudijn FH, van Denderen PD, Heino M, Dieckmann U, de Roos AM (2021). Harvesting forage fish can prevent fishing-induced population collapses of large piscivorous fish. *Proceedings of the National Academy of Sciences*, 118(6), e1917079118. 10.1073/pnas.1917079118
- van Denderen PD, Gislason H, van den Heuvel J, Andersen KH (2020). Global analysis of fish growth rates shows weaker responses to temperature than metabolic predictions, *Global Ecology and Biogeography*, 29, 2203-2213. 10.1111/geb.13189
- Petrik CM, Stock CA, Andersen KH, van Denderen PD, Watson JR (2019). Bottom-up drivers of global patterns in demersal, forage, and pelagic fishes. *Progress in Oceanography*, 176, 102124. 10.1016/j.pocean.2019.102124
- van Denderen PD, Lindegren M, MacKenzie B, Watson R, Andersen KH (2018). Global patterns in marine predatory fish. *Nature ecology and Evolution*, 2, 65-70. 10.1038/s41559-017-0388-z

### **Supervising and mentoring activities**

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2019-present	Co-supervisor of a PhD student (Rémy Denechere) at the Centre for Ocean Life, Technical University of Denmark, Denmark
2015-2020	Involved in three PhD projects leading to publications and/or thesis chapters at the Centre for Ocean Life, Technical University of Denmark, Denmark
2017-2018	Guest lectures on marine food webs and the biological carbon pump in the Environmental processes BSc course, Leiden University, the Netherlands
2016-2020	Guest lectures on environmental effects of bottom trawl fishing in the Marine Fisheries Ecology MSc course, DTU-Aqua Denmark
2013-2014	Mentored two MSc students doing research projects (6 months)
2011	Teaching assistant in the course Zoology, BS level, Leiden University, the Netherlands (4 weeks)

### **Other activities**

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- Organized 10 workshops (2016-2021) together with Dr. Sebastian Valanko from the ICES secretariat to derive scientific methods to assess fishing impacts on benthic ecosystems and supported the advisory process to translate science into policy advice in response to requests of DG Environment and DG Mare, European Commission.
- Co-led a 10-days research cruise together with Prof. Dr. Jan Geert Hiddink in the Gulf of Gdansk in 2018 to study the impact of hypoxia and bottom trawling in the Baltic Sea. We obtained funding through the Assemble plus program (H2020-INFRAIA-1-2016-2017).
- Part of the scientific steering committee to organize the 3rd Early Career Scientist Conference Climate, Oceans and Society in Busan, Korea (2017).
- Involved in the EU co-financed project BalticBoost (2016) coordinated by HELCOM, where I worked on a quantitative method to assess fishing impact on benthic communities in the Baltic Sea.