Curriculum vitae

PERSONAL INFORMATION

HAVENHAND, JONATHAN

Dept. Marine Sciences –Tjärnö
University of Gothenburg, SE-452 96 Strömstad, Sweden

t: +46 (0)31 786 9682
e: jon.havenhand@marine.gu.se

EDUCATION

1981 Bachelor of Science (Honours) University of Stirling, Scotland

1986 PhD (Marine Ecology) "The physiological ecology and life-history strategies of nudibranch molluscs *A. proxima* and *O. muricata"*, Supervisor: Dr C.D.Todd, St Andrews University, Scotland.

CURRENT & PREVIOUS POSITIONS

1986 - 1987 University of Liverpool Marine Biological Station, Isle of Man, U.K.

1987 - 1989 Royal Society of London Research Fellow, KVA Kristineberg, Sweden

1990 - 1992 NATO Research Fellow, Friday Harbor Labs, Univ. Washington, USA

1992 – 1999 Lecturer in Marine Biology, School of Biological Sciences, Flinders University, Australia

2000 – 2002 Associate Professor in Marine Biology, (Flinders University)

2002 – 2003 Lambergs Guest Professor, University of Gothenburg, Sweden

2003 – Researcher, Department of Marine Sciences – Tjärnö, University of Gothenburg

2011 – Honorary Professor, Macquarie University, Australia

2018 – Associate Head (Teaching & Learning), Dept. of Marine Sciences – Tjärnö, Univ. Gothenburg

2021 – Deputy Head of Department, Dept. of Marine Sciences – Tjärnö, Univ. Gothenburg

GRADUATE STUDENTS & POST-DOCS

12 PhD, 4 postdocs (completed)

2 current PhD students (co-supervised), 1 current postdoc

COMMISSIONS OF TRUST

2002 – 2003 Carl & Thecla Lambergs Guest Professor, University of Gothenburg

2011 – Honorary Professor, Macquarie University, Australia.

2015 – Reviewer for: *Biogeosciences, Current Biology, Frontiers in Marine Science, Global Change Biology, J. Exp. Mar. Biol. Ecol., Limnology & Oceanography, Marine Ecology Progress Series, Marine Biology, Marine Pollution Bulletin, Nature Climate Change, PLoS One, Proceedings of the Royal Society B*.

2015 – Reviewer for: National Science Foundation (USA); Natural Environment Research Council (UK); Royal Society of New Zealand (NZ)

2017 – 2018 Visiting Researcher, Antarctic Climate & Ecosystems, University of Tasmania, Australia

I have undertaken multiple academic reviews for tenure (4) and promotion (7, 4 to Full Professor).

CAREER BREAKS

none

SELECTED RESEARCH FUNDING

Since 2003 as a sole PI I have obtained over 24 million Swedish kronor (kr), and a further 13 million kr to my laboratory in collaborative grants with colleagues.

Current grants:

2018 – 2022 FORMAS (Swedish Research Council for Sustainable Development) *Can within-species diversity increase resilience of seagrass beds to a changing, and variable, marine climate?* **2974 kSEK (**JN Havenhand PI)

2020 – 2024 FORMAS + Swedish EPA *Dynamic management of the invasive Pacific oyster in Sweden* **3999 kSEK** (JN Havenhand Co-Investigator)

PEER REVIEWED PUBLICATIONS

Google Scholar Metrics (2022-12-07):

122 scientific articles; 5848 citations; Overall H-Index = 43, H-index last 10 years = 27,

Peer-reviewed articles since 2017:

1. Hattich GSI, L Listmann, **JN Havenhand** *et al.* (2022). Temporal variation in ecological and evolutionary contributions to phytoplankton functional shifts. *Limnol. Oceanogr.* https://doi.org/10.1002/lno.12267
2. Pansch C, M Raatz, S Comeau, TY Hui, CE Cornwall, **JN Havenhand** (2022). Influence of environmental variability on climate change impacts in marine systems. *Front. Mar. Sci.* 9:994756. https://doi.org/10.3389/fmars.2022.994756
3. Kvarnemo L, L Green, O Svensson, . . . **JN Havenhand** *et al.* (2022). Molecular, behavioural and morphological copmarisons of sperm adaptations in a fish with alternative reproductive tactics. *Evol. Appl.* https://doi.org/10.1111/eva.13438
4. Nicol S, P Lehodey, I Senina, . . . **JN Havenhand** *et al* (2022). Ocean futures for the world's largest Yellowfin tuna population under the combined effects of ocean warming and acidification. *Front. Mar. Sci.* 9: 816772. https://doi.org/10.3389/fmars.2022.816772
5. Zaiss J, PW Boyd, SC Doney, **JN Havenhand**, N Levine (2021). Impact of Lagrangian sea surface temperature variability on Southern Ocean phytoplankton community growth rates. *Global Biogeochem. Cycles* 35, e2020GB006880. https://doi. org/10.1029/2020GB006880
6. Green L, A Apostolou, E Faust, K Palmqvist, JW Behrens, **JN Havenhand**, EH Leder, C Kvarnemo (2021) Ancestral sperm ecotypes reveal multiple invasions of a non-native fish in northern Europe. *Cells* 10: 1743. https://doi.org/10.3390/cells10071743
7. Green L, J Niemax, J-P Herrmann, A Temming, JW Behrens, **JN Havenhand** et al. (2021) Sperm performance limits the reproduction of an invasive fish in novel salinities. *Divers. Distrib.* 27: 1091– 1105. https://doi.org/10.1111/ddi.13258
8. Lindström K, **JN Havenhand**, E Leder, S Schöld, O Svensson, C Kvarnemo (2021). Sperm adaptation in relation to salinity in three goby species. *J Fish Biol.* 2021; 1– 7. https://doi.org/10.1111/jfb.14749
9. Leder EH, C André, A LeMoan, M Töpel, A Blomberg, **JN Havenhand**, K Lindström, FAM Volckaert, C Kvarnemo, K Johannesson, O Svensson (2021). Post-glacial establishment of locally adapted fish populations over a steep salinity gradient. *J. Evol. Biol.* **34:** 138-156. **DOI**: 10.1111/jeb.13668.
10. Britton D, M Schmid, F Noisette, **JN Havenhand**, ER Paine, CM McGraw, . . . CL Hurd (2020). Adjustments in fatty acid composition is a mechanism that can explain resilience to marine heatwaves and future ocean conditions in the habitat-forming seaweed *Phyllospora comosa* (Labillardiere) C.Agardh. *Glob Chang Biol.* **DOI**:10.1111/gcb.15052
11. Hurd CL, J Beardall, S Comeau, CE Cornwall, **JN Havenhand**, P Munday, L Parker, JA Raven, CM McGraw (2019) Ocean acidification as a multiple driver: how interactions between changing seawater carbonate parameters affect marine life. *Marine & Freshwater Research.* **71:** 263-274. **DOI: 1**0.1071/MF19267
12. Green L, **JN Havenhand**, L Kvarnemo (2019) Evidence of rapid adaptive change to local salinity in the sperm of an invasive fish. *Evolutionary Applications.* **DOI:** 10.1111/eva.12859
13. Kinnby A, RT Pereyra, **JN Havenhand**, P DeWit, H Pavia, K Johannesson (2019) Factors affecting formation of adventitious branches in the seaweeds *Fucus vesiculosus* and *F. radicans. BMC Ecology* **19:**22. **DOI:** 10.1186/s12898-019-0239-7.
14. Falkenberg LJ, CA Styan, **JN Havenhand** (2019) Sperm motility of oysters from distinct populations differ in their response to ocean acidification and freshening. *Scientific Reports.* **DOI:** 10.1038/s41598-019-44321-0
15. Boyd PW, S Collins, S Dupont, K Fabricius, J-P Gattuso, **JN Havenhand** *et al.* (2019). Handbook to support the SCOR Best Practice Guide for 'Multiple Drivers' Marine Research. U.Tasmania, SCOR. **DOI:** 10.25959/5c92fdf0d3c7a
16. Turner LM, **JN Havenhand**, C Alsterberg, AD Turner, SK Girisha, A Rai, MN Venugopal, I Karunasagar, A Godhe (2019). Toxic algae silence physiological responses to multiple climate drivers in a tropical marine food chain. *Front. Physiol.* **10**:373. **DOI:** 10.3389/fphys.2019.00373
17. **Havenhand JN**, HL Filipsson, S Niiranen, M Troell, A-S Crépin, S Jagers, D Langlet, S Matti, D Turner, M Winder, P deWit, LG Anderson (2018) Ecological and functional consequences of coastal ocean acidification: perspectives from the Baltic-Skagerrak System. *Ambio* **DOI:** 10.1007/s13280-018-1110-3
18. Jagers SC, S Matti, A-S Crépin, D Langlet, **JN Havenhand**, M Troell, HL Filipsson, V Galaz, LG Anderson (2018) Societal causes of, and responses to, ocean acidification. *Ambio* **DOI:** 10.1007/s13280-018-1103-2

19. Johannesson K, A-K Ring, K Johannesson, E Renborg, P Jonsson, **JN Havenhand** (2018) Oceanographic barriers to gene flow promote genetic subdivision of the tunicate *Ciona intestinalis* in a North Sea Archipelago. *Marine Biology* **165:** 126- **DOI:** 10.1007/s00227-018-3388-x

20. Boyd PW, S Collins, S Dupont, K Fabricius, J-P Gattuso, **JN Havenhand** *et al.* (2018) Experimental strategies to assess the biological ramifications of multiple drivers of global ocean change – a review. *Global Change Biology* **DOI**: 10.1111/gcb.14102

21. Pansch C, G Hattich, ME Heinrichs, A Pansch, Z Zagrodzka, **JN Havenhand** (2018) Long-term exposure to acidification disrupts reproduction in a marine invertebrate. *PLoS One* **13**(2): e0192036

22. Bausch AR, MA Gallego, J Harianto, P Thibodeau, N Bednarsek, **JN Havenhand**, T Klinger (2018) Influence of bacteria on shell dissolution in dead gastropod larvae and adult *Limacina pteropods* under ocean acidification conditions. *Mar. Biol.* **165:** 40 **DOI:** 10.1007/s00227-018-3293-3

23. Smith K, RB Aronson, B Steffel . . . **JN Havenhand**, et al (2017) Climate change and the threat of novel marine predators in Antarctica. *Ecosphere* 8(11):e02017. 10.1002/ecs2.2017

24. Svensson O, J Gräns, M Celander, **JN Havenhand**, et al (2017) Immigrant reproductive dysfunction facilitates ecological speciation. *Evolution* **71:** 2510-2521. **DOI:** 10.1111/evo.13323

25. Lind O, M Järvå, M Alm-Rosenblad . . . **JN Havenhand**, et al (2017) Analysis of aquaporins from the euryhaline barnacle *Balanus improvisus* reveals differential expression in response to changes in salinity. *PLoS One* DOI:10.1371/ journal.pone.0181192

26. Falkenberg L, A-L Wrange A-L, A Kinnby, **JN Havenhand**, A Lockyer, CA Styan (2017) Low sensitivity of reproductive life-stages in the Pacific oyster (*Crassostrea gigas*) to abamectin. *Chemosphere* **182:** 665-671. DOI: 10.1016/ j.chemosphere.2017.05.085