

University of Auckland  
Standard  
**ACADEMIC CV**



THE UNIVERSITY OF AUCKLAND  
NEW ZEALAND

**NAME:** Jenni Anne Stanley  
**CURRENT POSITION:** Post Doctorial Research Fellow  
**DEPARTMENT:** Institute of Marine Science  
**FACULTY:** Science  
**UNIVERSITY:** University of Auckland  
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**DOB:** 17/08/1984

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**EDUCATIONAL QUALIFICATIONS:** [Tertiary only]

2011 (September) University of Auckland, PhD, Marine Science  
Thesis title: Ambient underwater sound: Measuring the importance of spatial variability and its effect on late-stage carb larvae.  
2008 University of Auckland, Postgraduate Diploma in Science, Specialisation in Marine Science  
2007 University of Auckland, Bachelor of Science, Biological Science

**PREVIOUS APPOINTMENTS:**

2011 University of Auckland/National Institute of Water and Atmospheric Research, Contracted Research Fellow  
2011 University of Auckland – Leigh Marine Laboratory, Research Technician  
2010 Massey University/Ministry of Fisheries, Casual Field Technician  
2008-2009 National Institute of Water and Atmospheric Research, Contracted Laboratory Technician

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**SIGNIFICANT DISTINCTIONS / AWARDS:**

2011 University of Auckland, FRDF Research Fellowship  
2010 Stanley Wishart Low Memorial Scholarship in Marine Science  
2009 New Zealand Marine Sciences Society Research Award

**RESEARCH GRANTS / FUNDING:**

2013 Co-investigator with Jeffs on Spat Retention Approaches (Funding from Seafood Innovation LTD & Sanford Ltd) \$94,810  
2011 Co-investigator with Jeffs on nuisance barnacles on North Island Greenshell mussel farms (Funding from North Island Mussel Processors Ltd) \$20,000  
2011 Associate Investigator on returning crayfish to the reefs of the Hauraki Gulf \$150,000

- 2011 Researcher on gut microflora of NZ Abalone and Snapper, University of Canterbury & Industrial Research Limited \$15,000  
2010 Associate Investigator on vessel noise induced biofouling from National Institute of Water and Atmospheric Research (NIWA) Seed Fund \$10,000

#### **RESEARCH EXPERIENCE:**

- 2012 – 2013 Returning crayfish to the reefs of the Hauraki Gulf – Habitat change and its effects of recruitment.  
2012 Acoustics in hard bottomed sponge habitats and effects of sponge dieback, Florida Keys, USA, in collaboration with Professor Mark Butler (Old Dominion University) – culminating in a NSF Grant proposal for submission in the USA.  
2011 – Current Vessel noise and its effects on settlement of biofouling organisms, in collaboration with Serena Wilkens (NIWA).  
2011 Nuisance barnacles on North Island Greenshell mussel farms, North Island Mussel Processors Ltd.  
2011 Gut microflora in NZ abalone and snapper, University of Canterbury & Industrial Research Limited.  
2008 – 2011 Ambient underwater sound and its effects on tropical and temperate late-stage larvae, north-eastern New Zealand and GBR Australia (PhD Research).

#### **INVITED SPEAKER:**

- 2012 Invited speaker to session on larval & settlement behaviour of coral reef organisms at the 12<sup>th</sup> International Coral Reef Symposium, Cairns, Australia. Location, location, location – Finding a suitable home in amongst the noise.  
2010 Plenary speaker at New Zealand Marine Sciences Society, Wellington, New Zealand. Settlement response to differences in ambient underwater sound in temperate waters.

#### **PROFESSIONAL SOCIETIES / SERVICE / OTHER ACTIVITIES:**

Member of the New Zealand Marine Science Society  
Member of the Australian Marine Sciences Society

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#### **TEACHING:**

- 2013 Lecturing Mar302: Selected Topics in Marine Science, Fluid Dynamics, coordinator for associated practical field course  
2012 Course coordinator for Mar702: Field Techniques in Marine Science (due to Radford's absence)  
2008 – 2013 Teaching Mar702, Field Techniques in Marine Science  
2006 – 2009 Tutor/Demonstrator assorted under-graduate and post-graduate biology papers; 101, 104, 333, 396, 727

#### **CURRENT STUDENT SUPERVISION (\* Co-supervisor):**

PhD – Jan Hesse\*, Recruitment of spiny rock lobsters  
PhD – Davide Zazzaro\*, Biology and control of nuisance barnacles in mussel farms  
PhD – Rebecca Smith\*, Mussel seed biology and capture in the Hauraki Gulf

#### **COMMITTEE MEMBER**

PhD – John Butler, Characterisation of soundscapes in shallow water habitats of the Florida Keys, Florida (USA) and their influence on the settlement of larval fish and invertebrates. Old Dominion University, Norfolk VA, USA.

## RESEARCH SPECIALTIES / CAREER:

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### Summary Statement:

My main research has focused on how temperate and tropical marine crustacean larvae respond to and utilise ambient underwater sound during settlement and recruitment, with which I employ a multi-disciplinary approach consisting of underwater acoustics, sensory ecology, physiology, animal behaviour, and larval biology.

### RESEARCH PUBLICATIONS:

- Stanley, J. A.**, Radford, C. A., Jeffs, A. G. 2012. Location, location, location – finding a suitable home in amongst the noise. *Proceedings of the Royal Society B-Biological Sciences*. doi: 10.1098/rspb.2012.0697. \*Included cover image.
- Stanley, J.A.**, Radford, C.A., Jeffs, A.G. 2012. Effects of underwater noise on larval settlement. *Advances in Experimental Medicine and Biology* 730: 371-374.
- Wilkens, S., **Stanley, J.**, Jeffs, A. 2012. Induction of settlement in mussel (*Perna canaliculus*). *Biofouling*. 28: 65-72.
- Radford, C., **Stanley, J.**, Simpson, S., Jeffs, A. 2011. Juvenile coral reef fish use sound to locate habitats. *Coral Reefs*. [10.1007/s00338-010-0710-6](https://doi.org/10.1007/s00338-010-0710-6).
- Stanley, J. A.**, Radford, C. A., Jeffs, A.G. 2011. Behavioural response thresholds in New Zealand crab megalopae to ambient underwater sound. *PLoS ONE* 6: e28572.
- Stanley, J. A.**, Radford, C., Jeffs, A. 2010. *Induction of settlement in crab megalopae by ambient underwater reef sound*. *Behavioral Ecology*, 21: 112 – 120.
- Radford, C., **Stanley, J. A.**, Chris, T., Montgomery, J., Jeffs, A. 2010. Localised coastal habitats have distinct underwater sound signatures. *Marine Ecology Progress Series*, 401: 21 – 29.

### RESEARCH PUBLICATIONS SUBMITTED:

- Stanley, J. A.**, Hesse, J., Jeffs, A. G. Inducers of settlement and moulting in post-larval spiny lobster, *Jasus edwardsii*. *Behavioural Ecology*.
- Stanley, J. A.**, Cox, S. Jeffs, A. G. Fouling in your own nest: effects of ship noise on biofouling. *Nature Communications*.
- Radford, C. A., **Stanley, J. A.**, Jeffs, A. G. Submitted. Adjacent coral reef habitats produce different underwater sound signatures. MEPS.
- Stanley, J. A.**, Wilkens, S. L., Jeffs, A. G. In Production. Vessel noise on promotes hull-fouling. In R. Fay & A. N. Popper (Eds.) *The effects of noise on aquatic life II*. New York: Springer Science + Business Media.

### BOOK CHAPTERS:

- Jeffs, A. G., **Stanley, J. A.**, Radford, C. A. 2012. Ecological effects of acoustic pollution in the marine environment. In: *Pollutants in the aquatic environment*. Eds Nzai, E.M., Allodai, S. Research Signpost, India.

**Stanley, J. A.**, Radford, C.A., Jeffs, A. (2011). The effects of noise on larval settlement. In R. Fay, & A.N. Popper (Eds.) *The effects of noise on aquatic life* (pp. 371-374). New York: Springer Science + Business Media.

#### **PATENTS:**

**Stanley, J. A.**, Jeffs, A. G., Wilkens, S. L. 2012. Method and systems for reducing biofouling. Patent number: 599685.

#### **COMMISSIONED REPORTS:**

Jeffs, A., **Stanley, J. A.** 2010. The occurrence of barnacles on Coromandel mussel farms: A preliminary report for Sealord Shellfish Ltd. 7pp.

**Stanley, J. A.**, Trottier, O., Jeffs, A. 2011. Literature review on the fouling barnacle *Balanus trigonus*. A report for North Island Mussel Processors Ltd. 45pp.

**Stanley, J. A.**, Jeffs, A. 2012. The occurrence of the barnacle *Balanus trigonus* on mussel farms in the Hauraki Gulf. A report for North Island Mussel Processors Ltd. 42pp.

#### **SCIENCE COMMUNICATION:**

**2013** Moana – My Ocean Exhibition, Auckland Memorial War Museum – Assisted with scientific content

**2013** Wānanga – Nga Pūoro o te Moana, Matariki Festival, Auckland Memorial War Museum and Auckland Zoo – Member of expert panel.

**2012** Outside JEB article about our publication - **Stanley, J. A.**, Radford, C. A., Jeffs, A. G. 2012. Location, location, location – finding a suitable home in amongst the noise.  
*doi:10.1242/jeb.064360*

**2012** ABC Science <http://www.abc.net.au/science/articles/2012/06/06/3518774.htm>

**2010** Science Learning Hub, Secondary School Website for Understanding Science 'The Noisy Reef'

**2010** Golden Graduates Function 'Sounds in the Sea'

**2009** Radio New Zealand's Science Programme 'Our Changing World'

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