

Frederick D. Dooley

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Education:

Postdoctoral fellow (June 2015 - Present), University of Washington Dept. of Biology

PhD Biology (2015), University of Washington Dept. of Biology

Bachelors of Science (2009), University of Washington, Seattle; ZooBot Class of 2008

Bachelors of Arts (2009), University of Washington, Seattle

Teaching Appointments:

Lecturer: University of Washington: June 2015 – Present

Classes: Biology 180 – Introductory to Biology – Evolution*

*(4 quarters as Instructor of record), recent instructor rating 4.4/5

Predocctoral Lecturer: University of Washington, Seattle: June 2012 - May 2015

Classes: Biology 119 – Introduction to Human Physiology

Biology 451 – Invertebrate paleontology

Biology 280 – New History of Life*

*Nominated for the University of Washington Excellence in Teaching Award

Teaching Assistant: University of Washington, Seattle: September 2010 - May 2015

Classes: Biology 280 – New History of Life

Biology 200 – Introductory to Biology – Cellular and Molecular

Biology 180 – Introductory to Biology – Evolution

Biology 119 – Introduction to Human Physiology

Biology 446 – Biology of Algae

Research Experience:

Postdoctoral fellow: University of Washington, Seattle: June 2015 to Present

Research Associate: University of Washington, Seattle: July 2010 to May 2015

Research Technician: Seagrass Laboratory, Friday Harbor WA: September 2009 to July 2010

Volunteer Research Technician: University of Washington, Seattle: January 2009 to June 2009

Volunteer Lab Help: University of Washington, Seattle: January 2008 to June 2008

Publications:

1. Ward, P., **Dooley, F.**, Barord, G. 2016. Nautilus: Biology, Systematics, and Paleobiology as viewed from 2015. Swiss Journal of Palaeontology. DOI 10.1007/s13358-016-0112-7
2. Vandepas, L. E., **Dooley, F. D.**, Barord, G. J., Swalla, B. J. and Ward, P. D. 2016. A revisited phylogeography of *Nautilus pompilius*. Ecol Evol, 6: 4924–4935. doi:10.1002/ece3.2248
3. **Dooley F.**, Wyllie-Echeverria, S., et al ... The distribution of seagrass in relation to sediment sulfide in the San Juan Archipelago and encompassing area. (In-Review)
4. Ward, P., Dooley, F. Biogeography and ecology of Nautilus in Vanuatu. PlosOne. (In-Review)

5. **Dooley F.**, Wyllie-Echeverria, S., Gupta, E., Ward, P. 2015. Tolerance of *Phyllospadix scouleri* seedlings to hydrogen sulfide. *Aquatic Botany*. 123: 72-75
6. Barord G.J, **Dooley F.**, Dunstan A., Ilano A., Keister K.N, et al. 2014. Comparative Population Assessments of *Nautilus* sp. in the Philippines, Australia, Fiji, and American Samoa Using Baited Remote Underwater Video Systems. PLoS ONE 9(6): e100799. doi: 10.1371/journal.pone.0100799
7. Gupta, E., **Dooley, F.**, Ward, P. 2014. Evolutionary Legacy Response Observed in Algae & Bryophytes Following Hydrogen Sulfide Administration. J. Toxicol. Environ. Chem. DOI:10.1080/02772248.2014.944353
8. **Dooley, F.**, Wyllie-Echeverria, S., Roth, M., & Ward, P. 2013. Tolerance and response of *Zostera marina* seedlings to hydrogen sulfide. *Aquatic Botany*. 105: 7-10.
9. **Dooley, F.**, Wyllie-Echeverria, S., & Van Volkenburgh, E. 2013. Long-term seed storage and viability of *Zostera marina*. *Aquatic Botany*. 111: 130-134
10. **Dooley, F.**, Ward, P., & Nair, S. 2013. Hydrogen Sulfide causes unusually fast growth in crop plants; PLoS ONE 8(4): e62048. doi:10.1371/journal.pone.0062048
11. **Dooley F.**, Wyllie-Echeverria S., & Greene H.G. 2011. Garrison Bay Overwater Structure Survey; National Parks Service, San Juan Island WA
12. **Dooley, F.** 2009. The Effects of Temperature on *Zostera marina* Seedling Development and Determination of Seed Viability; University of Washington Research Symposium Pg; 76
13. **Dooley, F.** 2008. Short Communication: The effects of temperature on *Zostera marina* seedling development; FHL Class Publication, San Juan Islands

Grants Awarded:

Travel Award, Second European Conference... 2013
 Graduate School Fund for Excellence and Innovation Travel Award 2013
 WRF-Hall Fellowship Fall 2012
 Mary Gate's Scholar 2008

Presentations:

Sound Waters, Whidbey Island, WA, 2015
 International Seagrass Conference. Friday Harbor, WA, 2015
 Fidalgo Bay Science Conference, Anacortes WA, 2014
 Second European Conference on the Biology of Hydrogen Sulfide, Exeter England, 2013
 UW Graduate Symposium, Seattle WA, 2012-2014
 Salish Sea Conference Poster presentation, Vancouver BC, 2011
 UW Biology Retreat, Friday Harbor, WA, 2010-2014
 Friday Harbor Laboratories Open House Poster Presentation, Friday Harbor WA, 2009 - 2014
 Undergraduate Research Symposium, Seattle WA, 2009

Media Appearances:

Discovery News: H₂S and Plants: <http://news.discovery.com/earth/plants/deadly-gas-can-act-as-fertilizer-130423.htm>

UW News: H₂S and Plants: <http://www.washington.edu/news/2013/04/17/a-key-to-mass-extinctions-could-boost-food-biofuel-production/>

Fiji TV: Nautilus Research: http://www.fijitv.info/yahoo_site_admin/assets/docs/7.41124949.wmv

The Daily: Work with WSU: <http://dailyuw.com/news/2012/oct/08/collaboration-instead-competition/>

The Daily: H₂S and Plants: <http://dailyuw.com/news/2012/jul/17/extinction-sustenance/>

Professional Collaborations:

Mark Roth – Fred Hutchinson Cancer Research Center

Amit Dhingra – Washington State University

Joseph Kirschvink – CalTech

Lee Kump – PennState

Peter Ward - University of Washington

John Baross - University of Washington

Elizabeth Van Volkenburgh – University of Washington

Rose Ann Cattolico - University of Washington

Rusty Rodriguez – USGS and University of Washington

Sandy Wyllie-Echeverria – University of the Virgin Islands

Adam Summers - University of Washington

Billie Swalla - University of Washington

Toby Bradshaw - University of Washington

Joel Elliott – University of Puget Sound

H. Gary Greene - Moss Landing Marine Laboratories

Tom Tobin – University of Alabama

Gregory Barord – City University of New York

Mentored Students:

Suven Nair+, Eric Gupta+, Olga Vitruk+, Tessa Marx; Kirsten Rarich; Racheal Jappert; Sarah Davis; Mathew Summers*; Shannon Russell#

+ Co-author

*Winner of Mary Gates Research Fellowship

#Winner of Washington Space Grant Fellowship