



CURRICULUM VITAE

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Public Policy
Senior Research Specialist
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Date of Birth: October 9, 1955
Place of Birth: Red Bank, New Jersey
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EDUCATION:

Ph.D., Marine Policy, University of Delaware, Newark, DE, January 2000
M.P.A., Public Administration, Harvard University, Cambridge, MA, May 1993
M.M.P., Marine Policy, University of Delaware, Newark, DE, June 1982
B.S., Biology, Hobart College, Geneva, NY, June 1977

RESEARCH INTERESTS:

Economics and public policy of marine resources and the ocean environment; optimal management of ocean and coastal resources and their uses; distribution and allocation of property rights in ocean and coastal resources; economic impacts of marine natural hazards; technology transfer and intellectual property problems; marine science and technology policy; underwater archaeological resource management.

PROFESSIONAL EXPERIENCE:

Senior Research Specialist, Woods Hole Oceanographic Institution, 2008 to present
Research Specialist, Woods Hole Oceanographic Institution, 2000-08
Research Associate, Woods Hole Oceanographic Institution, 1985-2000
Research Assistant, Woods Hole Oceanographic Institution, 1983-84
Conservation Intern, National Wildlife Federation, 1982
Research Intern, Environmental Law Institute, 1981
Research Assistant, College of Marine Studies, University of Delaware, 1981-82
Administrative Legal Assistant, Howrey and Simon, 1979-80
Paralegal, Howrey and Simon, 1977-79

AWARDS:

Cooperative Institute for North Atlantic Research (CINAR) Fellowship, 2013-16
Frances Severance Award for Dissertation in Public Policy, University of Delaware, 2000
Marine Policy Program Fellow, College of Marine Studies, University of Delaware, 1993-94
Crump Fellow, Center for Business and Government, Harvard University, 1992
E. Sam Fitz Professional Development Award, University of Delaware, 1983
Academic Council Award for Master's Thesis in Marine Policy, University of Delaware, 1982

PROFESSIONAL ACTIVITIES:

Adjunct Professor, Graduate Faculty, Department of Marine Affairs, University of Rhode Island, 2012 to present
Adjunct Professor, Intercampus Graduate School of Marine Sciences and Technology, University of Massachusetts, 2000 to present
Advisor, Institute Advisory Committee, WHOI Coastal Ocean Institute, 2001 to present
Advisor, WHOI Office for Applied Oceanography, 2009 to present
Editorial Advisory Board, *Harmful Algae*, 2014 to present
Editorial Advisory Board, *Encyclopedia of Ocean Sciences*, Academic Press, 2001 to present
Member, International Institute of Fisheries Economics and Trade, 2007 to present
Member, Marine Technology Society, 1996 to present
Research Associate, Center for Maritime & Underwater Resource Management, East Lansing, Michigan, 1995 to present
Member, National Harmful Algal Bloom Committee, 2006-13
Adjunct Professor, The Union Institute, Cincinnati, Ohio, 2001-08
Advisor, Stellwagen Bank National Marine Sanctuary Advisory Committee, 2007-2010 (Alternate Advisor 2001-2007)
Member, Steering Committee, National Scientific Research, Development, Demonstration, and Technology Transfer Plan on Reducing Impacts from Harmful Algal Blooms, 2006-2007
Director, Board of Directors, Council on Ocean Law, 1995-2005
Chairman, Marine Resources Division, Marine Technology Society, 1996 to 2004
Chairman, Ecosystem Alteration Working Group, Stellwagen Bank National Marine Sanctuary, 2004
Chairman, Site Characterization Working Group, Stellwagen Bank National Marine Sanctuary, 2003-2004
Member, Panel on Peer Review, Committee to Assess the US Army Corps of Engineers Methods of Analysis and Peer Review for Water Resources Project Planning, National Research Council, 2001-2002
Member, Working Group on the Economic Aspects of Marine Mammal-Fisheries Interactions, North Atlantic Marine Mammal Commission, 2000
Member, Steering Committee, Massachusetts Ocean Resources Roundtable, Massachusetts Office of Coastal Zone Management, 1997-98
Member, Massachusetts Governor's Task Force on Aquaculture Development and Marketing, 1995
Advisor, Plymouth Beaches Advisory Committee (Vice-Chairman 1992-93), Town of Plymouth, Massachusetts, 1990-93

REFEREE:

Biodiv. Conserv.; *Clim. Change*; *Coast. Manag.*; *Conserv. Bio.*; *Ecol. Econ.*; *Ecol. Food Nutr.*; *Environ. Dev. Econ.*; *Environ. Conserv.*; *Environ. Manag.*; *Environ. Mod. Softw.*; *Fish.*; *Fish. Res.*; *Harm. Alg.*; *ICES J. Mar. Sci.*; *Int'l Inst. Fish. Econ. Tr.*; *J. Coast. Res.*; *J. Environ. Dev.*; *J. Environ. Econ. Manag.*; *J. Environ. Manag.*; *J. Geog. Reg. Plan.*; *J. Oc. Univ. China*; *Mar. Pol'y*; *Mar. Poll. Bull.*; *Mar. Res. Econ.*; *Mar. Tech. Soc. J.*; *Nat. Resour. Res.*; *Oc. Coast. Manag.*; *Oc. Dev. Int'l L.*; *Oc. Yearbook*; *Resour. Pol'y*; *Science*; *ScienceNOW*; *Sustainability*.

PAPERS IN REFEREED JOURNALS:

- Jin D, DePiper G, **Hoagland P**. 2016. An empirical analysis of portfolio management as a tool for implementing ecosystem-based fishery management. *No. Am. J. Fish. Mgmt.* 36:652-669.
- Berdalet E, Fleming LE, Gowen R, Davidson K, Hess P, Backer LC, Moore SK, **Hoagland P**, Enevoldsen H. 2015. Marine harmful algal blooms, human health and wellbeing: challenges and opportunities in the 21st century. *J. Mar. Biol. Assoc. UK*, 31pp. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4676275>.
- Bush D, **Hoagland P**. 2015. Public opinion and the environmental, economic, and aesthetic impacts of offshore wind. *Oc. Coast. Mgmt.* 120:70-79. <http://dx.doi.org/10.1016/j.ocecoaman.2015.11.018>.
- Hoagland P**, Dalton TM, Jin D, Dwyer J. 2015. An approach for assessing the spatial welfare and distributional effects of siting wind energy in the ocean: the Rhode Island/ Massachusetts "Area of Mutual Interest." *Mar. Pol'y* 58:51-59. DOI: 10.1016/j.marpol.2015.04.010.
- Jin D, **Hoagland P**, Au DK, Qiu J. 2015. Shoreline change, seawalls, and coastal property values. *Oc. Coast. Mgmt.* 114:185-193.
- Li Z, Garrison B, Ullmann SU, Kirkpatrick B, Fleming LE, **Hoagland P**. 2015. Risk in daily newspaper coverage of red tide blooms in southwest Florida. *Appl. Enviro. Educ. & Comm.* 17:167-177.
- Reich A, Lazensky RF, Faris J, Fleming LE, Kirkpatrick B, Ullmann S, Kohler K, **Hoagland P**. 2015. Assessing the impact of shellfish harvesting area closures on neurotoxic shellfish poisoning (NSP) incidence during Florida red tide (*Karenia brevis*) blooms. *Harm. Alg.* 43:13-19 <http://www.sciencedirect.com/science/article/pii/S1568988315000025>.
- Davidson K, Gowen RJ, Harrison PJ, Fleming LE, **Hoagland P**. 2014. Anthropogenic nutrients and harmful algae in coastal waters. *J. Environ. Manag.* 146:206-216. <http://www.sciencedirect.com/science/article/pii/S030147971400334X>.
- Hoagland P**, Jin D, Beet A, Kirkpatrick B, Reich A, Ullmann S., Fleming LE, Kirkpatrick G. 2014. The human health effects of Florida red tides: an expanded analysis. *Environ. Int'l.* 68:144-153. <http://dx.doi.org/10.1016/j.envint.2014.03.016>.
- Kirkpatrick B, Kohler K, Byrne M, Fleming LE Scheller K, Reich A, Hitchcock G, Kirkpatrick G, Ullman S, **Hoagland P**. 2014. Human responses to Florida red tides: policy awareness and the effectiveness of local fertilizer ordinances. *Sci. Tot. Environ.* 493:898-909. <http://www.sciencedirect.com/science/article/pii/S0048969714009565>.
- Hoagland P**, Kite-Powell HL, Jin D, Solow AR. 2013. Supply-side approaches to the economic valuation of coastal and marine habitat in the Red Sea. *J. King Saud Univ.-Sci.* 25:217-228. <http://dx.doi.org/10.1016/j.jksus.2013.02.006>.
- Jin D, Ashton A, **Hoagland P**. 2013. Optimal responses to shoreline changes: an integrated economic and geological model with application to curved coasts. *Nat. Res. Model* 26:572-604. <http://onlinelibrary.wiley.com/doi/10.1111/nrm.12014/abstract>.

- Jin D, **Hoagland P**, Wikgren B. 2013. An empirical analysis of the economic value of ocean space associated with commercial fishing. *Mar Pol'y* 42:74-84.
- Hoagland, P**, Jin D, Kite-Powell HL. 2012. The costs of beach replenishment along the US Atlantic coast. *J. Coast. Res.* 28:199-204. <http://dx.doi.org/10.2112/JCOASTRES-D-11-00066.1>.
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- Jin D, Kite-Powell HL, **P. Hoagland P**, Solow AR. 2012. A bioeconomic analysis of traditional fisheries in the Red Sea off the coast of the Kingdom of Saudi Arabia. *Mar. Res. Econ.* 27:127-138. <http://dx.doi.org/10.5950/0738-1360-27.2.137>.
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- Nierenberg K, Kirner K, **Hoagland P**, Ullmann S, LeBlanc WG, Kirkpatrick G, Fleming LE, Kirkpatrick B. 2010. Changes in work habits of lifeguards in relation to Florida red tide. *Harm. Alg.* 9:419-425. <http://dx.doi.org/10.1016/j.hal.2010.02.005>. [Corrigendum: *Harm. Alg.* 9:647. <http://dx.doi.org/10.1016/j.hal.2010.05.003>.]
- Bauer, M., **P. Hoagland**, T.M. Leschine, B.G. Blount, C.M. Pomeroy, L.L. Lampl, C.W. Scherer, D.L. Ayres, P.A. Tester, M.R. Sengco, K.G. Sellner, and J. Shumacker. 2009. The importance of human dimensions research in managing harmful algal blooms. *Front. Ecol. Environ.* doi:10.1890/070181. <http://www.esajournals.org/doi/pdf/10.1890/070181>.
- Hoagland, P.**, D. Jin, L.Y. Polansky, B. Kirkpatrick, G. Kirkpatrick, L.E. Fleming, A. Reich, S.M. Watkins, S.G. Ullmann and L.C. Backer. 2009. The costs of respiratory illnesses arising from Florida Gulf Coast *Karenia brevis* blooms. *Environ. Health Persp.* 117:1239-1243. <http://ehp.niehs.nih.gov/docs/2009/0900645/abstract.html>.
- Kite-Powell, H.L., L.E. Fleming, L.C. Backer, E.M. Faustman, **P. Hoagland**, A. Tsuchiya, L.R. Younglove, B.A. Wilcox and R.J. Gast. 2008. Linking the oceans to public health: current efforts and future directions. *Environ. Health J.* 7(Supp. 2):S6. <<http://www.ehjournal.net/supplements/7/S2>>.
- Jin, D. and **P. Hoagland**. 2008. The value of HAB predictions to the commercial shellfish fishery in the Gulf of Maine. *Harm. Alg.* 7:772-781. <http://dx.doi.org/10.1016/j.hal.2008.03.002>.

- Jin, D., E. Thunberg and **P. Hoagland**. 2008. Economic impact of the 2005 red tide event on commercial shellfish fisheries in New England. *Oc. Coast. Manag.* 51:420-429. <http://dx.doi.org/10.1016/j.ocecoaman.2008.01.004>.
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- Jin, D., **P. Hoagland** and A.R. Solow. 2006. The economic value of environmental research in understanding the relative contributions of sources of nutrients to coastal waters. *Nat. Res. Model.* 19:201-220. <http://dx.doi.org/10.1111/j.1939-7445.2006.tb00180.x>. [WHOI Contrib. No. 11,296.]
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- Jin, D., H.L. Kite-Powell and **P. Hoagland**. 2005. Risk assessment in open-ocean aquaculture: a firm-level investment-production model. *Aquacult. Econ. Manag.* 9:369-387. <http://dx.doi.org/10.1080/13657300500242261>. [WHOI Contrib. No. 11,394.]
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- Schumacher, M., **P. Hoagland** and A.G. Gaines. 1996. Land-based marine pollution in the Caribbean: incentives and prospects for an effective regional protocol. *Mar. Pol'y* 20:99-121. [http://dx.doi.org/10.1016/S0308-597X\(95\)00044-7](http://dx.doi.org/10.1016/S0308-597X(95)00044-7). [WHOI Contrib. No. 9002.]
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- Hoagland, P.** and H.L. Kite-Powell. 1994. Technology transfer and scientific relevance. *Oceanog.* 6:68-77. <http://dx.doi.org/10.5670/oceanog.1993.01>. [WHOI Contrib. No. 8230.]
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- LaMourie, M.J. and **P. Hoagland**. 1993. Government support of marine science and technology in Japan: the case of marine electronic instrumentation. *Mar. Tech. Soc. J.* 27:21-33. [WHOI Contrib. No. 8280.]
- Hoagland, P.** 1992. Measuring voting power on the Council of the International Seabed Authority. *Oc. Pol'y Res. (Korea)* 7:251-276. [WHOI Contrib. No. 8124.]
- Hoagland, P.** and H.L. Kite-Powell. 1991. European advanced marine electronic instrumentation: A U.S. perspective. *Mar. Pol'y* 15:431-454. [http://dx.doi.org/10.1016/0308-597X\(91\)90052-D](http://dx.doi.org/10.1016/0308-597X(91)90052-D). [WHOI Contrib. No. 7785.]
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- Hoagland, P.** 1987. Performance requirements in ocean mineral development. *Mar. Pol'y Rep.* 9:5-10. [WHOI Contrib. No. 6399.]
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Broadus, J.M. and **P. Hoagland**. 1984. Conflict resolution in the assignment of area entitlements for seabed mining. *San Diego L. Rev.* 21:541-576. http://www.sandiego.edu/law/news/blogs_publications/publications/journals/law_review/archive/archive.php?_focus=1635.

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CHAPTERS IN BOOKS:

Adams CM, Larkin SL, **Hoagland P**, Sancewich B. 2016. Assessing the economic consequences of harmful algal blooms: a summary of existing literature, research methods, data, and information gaps. In Shumway SE, ed., *Harmful Algal Blooms: A Compendium Desk Reference*. New York: John Wiley (forthcoming).

Hoagland P. 2014. Coupled nature-human (CNH) systems: generic aspects of human interactions with blooms of Florida red tide (*Karenia brevis*) and implications for policy responses. In Rossini GP, ed., *Toxins and Biologically Active Compounds from Microalgae*. Vol. 2: Biological Effects and Risk Management. Boca Raton, FL: CRC Press, pp. 502-537.

Hoagland P, ed. 2010. *Marine Policy and Economics*. New York: Academic Press, 618pp.

MacLeod MS, Lynch M, **Hoagland P.** 2009. Ocean zoning. In Steele JH, Thorpe SA, Turekian KK, eds., *Encyclopedia of Ocean Sciences*. 2nd edition. Cambridge, UK: Elsevier. Online at: <http://www.sciencedirect.com/science/referenceworks/9780123744739>.

Sherman K, Belkin I, Seitzinger S, **Hoagland P**, Jin D, Aquarone M-C, Adams S. 2009. Indicators of changing states of large marine ecosystems. In K. Sherman, M-C. Aquarone and S. Adams, eds., *Sustaining the World's Large Marine Ecosystems*. Gland, Switz.: International Union for the Conservation of Nature and Natural Resources, pp. 13-49.

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- Kite-Powell, H.L., **P. Hoagland**, D. Jin and K. Murray. 2003a. Economics of open ocean growout of shellfish in New England: sea scallops and blue mussels. In Bridger, C.J. and B.A. Costa-Pierce, eds., *Open-Ocean Aquaculture: From Research to Commercial Reality*. Baton Rouge, LA: World Aquaculture Society, pp. 293-306.
- Kite-Powell, H.L., **P. Hoagland**, D. Jin and K. Murray. 2003b. Open ocean growout of finfish in New England: a bioeconomic model. In Bridger, C.J. and B.A. Costa-Pierce, eds., *Open-Ocean Aquaculture: From Research to Commercial Reality*. Baton Rouge, LA: World Aquaculture Society, pp. 319-324.
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