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Date of Birth:	October 9, 1955
Place of Birth:	Red Bank, New Jersey
Nationality:	United States of America

## **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 Hoagland - CV Page 2

### **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
- Adjunct Professor, The Union Institute, Cincinnati, Ohio, 2001-08
- Advisor, Institute Advisory Committee, WHOI Coastal Ocean Institute, 2001-16
- Advisor, WHOI Office for Applied Oceanography, 2009-14
- 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, 1996-2015
- Research Associate, Center for Maritime & Underwater Resource Management, East Lansing, Michigan, 1995 to present
- Member, National Harmful Algal Bloom Committee, 2006-13
- Advisor, Research Advisory Committee, Waquoit Bay National Estuarine Research Reserve, 2017
- Advisor, Stellwagen Bank National Marine Sanctuary Advisory Committee, 2007-10 (Alternate Advisor 2001-07)
- Member, Steering Committee, National Scientific Research, Development, Demonstration, and Technology Transfer Plan on Reducing Impacts from Harmful Algal Blooms, 2006-07
- 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, 2003-04
- Member, Panel on Peer Review, Committee to Assess the US ACoE Methods of Analysis and Peer Review for Water Resources Project Planning, National Research Council, 2001-02
- 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

#### **<u>REFEREE</u>:**

Biodiv. Conserv.; CAFÉ; 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.; Minerals; Nat. Resour. Res.; Oc. Coast. Manag.; Oc. Dev. Int'l L.; Oc. Yearbook; Resour. Pol'y; Science; ScienceNOW; Sustainability.

### **PAPERS IN REFEREED JOURNALS:** [\* = student author]

- \*Carr EW, \*Shirazi Y, Parsons G, **Hoagland P**, Sommerfield CK. 2017. The economic value of carbon sequestration by wetlands in the Delaware Estuary: historic estimates and future projections. *J. Environ. Mgmt.* (forthcoming).
- \*Graikoski M, **Hoagland P**. 2017. Market-based rolling easements to reduce the vulnerability of coastal communities in Massachusetts. *Sea Grant L. & Pol'y J.* (August).
- \*Fallon AR, **Hoagland P**, Jin D, \*Phalen W, Fitzsimons G, Hein C. 2017. Adapting without retreating: responses to shoreline change on an inlet-associated coastal beach. *Coast. Manag.* (September).
- \*Patrolia E, Thompson R, Dalton T, **Hoagland P**. 2017. The influence of weather on the recreational uses of coastal lagoons. *Mar. Pol'y* 83:252-258. <u>http://dx.doi.org/10.1016/j.marpol.2017.06.019</u>.
- Tlusty MF, Wikgren B, Lagueux K, Kite-Powell HL, Jin D, Hoagland P, Kenney RD, Kraus SD. 2017. Co-occurrence mapping of disparate data sets to assess potential aquaculture sites in the Gulf of Maine. *Rev. Fish. Sci. & Aquacult.* <u>http://dx.doi.org/10.1080/23308249.2017.1343798</u>
- 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* 96:61-91. <u>http://www.ncbi.nlm.</u> <u>nih.gov/pmc/articles/PMC4676275</u>.
- \*Bush D, **Hoagland P**. 2015. Public opinion and the environmental, economic, and aesthetic impacts of offshore wind. *Oc. Coast. Mgmt.* 120:70-79. <u>http://dx.doi.org/10.1016/j.ocecoaman.</u> <u>2015.11.018</u>.
- 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. <u>https://doi.org/10.1016/j.ocecoaman.2015.06.025</u>.
- \*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 <u>http://www.sciencedirect.com/science/article/pii/S1568988315000025</u>.

- 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. <u>http://www.sciencedirect.com/science/article/pii/S030147971400334X</u>.
- **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. <u>http://dx.doi.org/10.1016/j.envint.2014.03.016</u>.
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- Hoagland P. 2010. A (social) scientific look at ecosystem-based management. *Oc. Coast. L. J.* 15:167-175. <u>http://mainelaw.maine.edu/academics/oclj/vol-15-no-1.html</u>.
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*Harm. Alg.* 9:419-425. <u>http://dx.doi.org/10.1016/j.hal.2010.02.005</u>. [Corrigendum: *Harm. Alg.* 9:647. <u>http://dx.doi.org/10.1016/j.hal.2010.05.003</u>.]

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- Jin, D., P. Hoagland and T.M. Dalton. 2003. Linking economic and ecological models for a marine ecosystem. *Ecol. Econ.* 46:367-385. <u>http://dx.doi.org/10.1016/j.ecolecon.2003.06.001</u>. [WHOI Contrib. No. 10,705.]
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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. <u>http://dx.doi.org/10.1016/S0308-597X(95)00044-7</u>. [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. <u>http://dx.doi.org/10.5670/oceanog.1993.01</u>. [WHOI Contrib. No. 8230.]
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