

## ANDREA LAURA BOGOMOLNI

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- One Health • Zoonoses • Emerging Infectious Wildlife Disease • Marine Mammal/Fishery Conflict • Immunotoxicology
- Marine Pathogen Diagnostics • Marine Conservation and Sustainability • Public Health • Community Science •

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## I. EDUCATION

B.S. Wildlife, Fish, and Conservation Biology: Ecotoxicology, **University of California at Davis**, June 1999.

B.A. Studio Art, **University of California at Davis**, June 1999.

M.A. Biology **Boston University** (Boston University Marine Program), June 2003.  
Thesis title: *Trophic Status, Contaminant Profile and Cytochrome P450 CYP1A activity in Harp, Harbor and Grey Seals of Cape Cod, MA.* Primary Advisors, Dr. John Stegeman, WHOI/ Dr. Jella Atema BU.

**Certificate** Core Public Health Competencies, **University of Connecticut Masters in Public Health Program/ Connecticut Department of Public Health**, August 2012.

Ph.D. **University of Connecticut, Storrs**, October 2014. Department of Pathobiology and Veterinary Science.  
Thesis title: *Assessing differences in species susceptibility to Phocine Distemper Virus (PDV) in harp, harbor and grey seals of the Northwest Atlantic.* Primary Advisor, Dr. Sylvain De Guise, UCONN

## II. PROFESSIONAL APPOINTMENTS AND RESEARCH EXPERIENCE

**Program Officer- Island Foundation (5/02/19- current).** Responsible for managing the education portfolio and environment portfolio of the Foundation for grants within the Southcoast MA and greater New England region. Manager of the Fishing Gear Marking Development Fund to incentivize the creation of geo-locating technology to apply rope-less technology in our oceans. Grant management for each portfolio occur quarterly. Directives of the foundation include increasing equity and inclusion in all aspects of managing grants with partner organizations.

**Visiting Investigator- Woods Hole Oceanographic Institution (9/01/2018- 8/31/2019).** Characterizing marine mammal bycatch and depredation through cooperative fisheries research in northeast sink gillnet fisheries. This is a multidisciplinary study working with commercial fishermen to video document occurrence of bycatch and depredation and applying genomics and hard part analysis in the lab to understand diet of seals. The goal is to reduce interactions by understanding how, when and why they occur.

**Consultant- Revive & Restore (5/01/15-6/15 2018).** Ocean Genomic Horizon Scan. A project to determine the biggest risks and solutions for Ocean Health and identify issues to distribute \$10 million in funds. Tasked with reviewing the most recent developments in Marine Mammal Health and interviewing the global leaders in marine mammal science.

**Postdoctoral Investigator- Woods Hole Oceanographic Institution, (9/01/17-8/31/18).** Continuation of postdoctoral fellow data analysis and writing for publication for the Morris Animal Foundation Postdoctoral Traineeship.

**Postdoctoral Fellow- Woods Hole Oceanographic Institution, (9/01/15-9/01/17).** Morris Animal Foundation Traineeship Fellow. Postdoctoral project title: Assessing the pathogenesis and host susceptibility to dolphin morbillivirus in cetaceans. The objective of the project is to undertake a multidisciplinary approach to determine mechanisms of host susceptibility and pathogenesis of dolphin morbillivirus by examining tissues to determine distribution of infection, identifying host reservoir species and understanding host susceptibility. This includes using PCR and immunohistochemistry to screen samples acquired during the 2013 Unusual Mortality Event, for which dolphin morbillivirus killed over 1600 bottlenose dolphins, to determine the tropism of the virus. Additionally, PCR is being used to detect the virus in potential reservoir species. In-vitro assessment using immune cells from various cetacean species is being used to determine susceptibility of infection using quantitative PCR. Working with six mentors, accomplishments

include gaining experience in marine mammal policy, diagnostic laboratory skills, histopathology, sample coordination between dozens of marine mammal stranding networks, live animal capture programs and marine parks. Four grants were written and funding received, to complete the project

**Postdoctoral Trainee- Woods Hole Oceanographic Institution/NOAA, (1/01/15-9/30/15).** This trainee-ship postdoc opportunity allowed for experience working with the NOAA Marine Mammal Health and Stranding Response Program. Duties including work to develop Health MAPP, a database system incorporating environmental, animal and ocean health data to understand marine coastal and ocean issues. Duties also included working in marine mammal rehabilitation facilities in California to restrain, feed and necropsy California Sea Lions during the Unusual Mortality Event. Work and skills also included writing manuscripts from previous PhD work.

**Graduate Research Assistant- University of Connecticut, Storrs, Department of Pathobiology and Veterinary Science (9/08/11, 9/01/12-9/01/14).** Conducted graduate research on Phocine Distemper Virus including experimental design, sample coordination, laboratory work, writing manuscripts for peer review publication and thesis writing. Skills include quantitative PCR, PCR, histopathology, viral isolation and writing. Work was conducted with fellowships and grants received. Budgets created for each to support salary and laboratory analysis costs of my own research and salary.

**Research Associate II- Woods Hole Oceanographic Institution (03/01/07- 01/01/15); Research Assistant II (10/01/05-03/01/07)-.** Duties include research, necropsy, writing and sample coordination for several projects. The major projects involved a NOAA Oceans and Human Health project to conduct a survey of marine animal zoonotic pathogens as well as determination of cause of death for marine mammals. Accomplishments include the publication of several peer reviewed manuscripts, lectures and talks at national and international conferences. Related skills include necropsy of marine birds, marine mammals and sharks, sample preparation for virus, fungal bacterial and parasite pathogens, Access database creation and implementation as well as improved marine animal necropsy skills. Additionally, work to increase collaborations and outreach were accomplished including with the fishing industry and partners, marine mammal stranding networks, terrestrial wildlife researchers, academic institutions as well as marine laboratories. This also included the direct supervision of several interns, students and volunteers and coordinating laboratory safety training and updates. Skills also include small boat operation, field work coordination and permit application for marine mammals and working on federally protected land as well as management of several competing project deadlines, priorities and objectives simultaneously.

**Consultant- Biodiversity Research Institute, Maine, (7-9/08) 30 hrs.** Development of protocols for scat collection from free ranging harbor seals for mercury analysis.

**Stranding and Database Coordinator (9/05-9/15)- Eastern Caribbean Cetacean Network (ECCN) 10 hrs/week.** Organized historical and current marine mammal stranding data for the Eastern Caribbean as well as organized trainings and workshops for the Spanish, English, French and Dutch Caribbean. Capacity building involved training both live and dead response to facilitate the creation of marine mammal stranding networks in these island nations and coordinating supplies and global expertise.

**Necropsy Coordinator- Cape Cod Stranding Network, Inc. (04/01/03-10/01/05) 40 hrs/week.** Through the work of the Cape Cod Stranding Network, Coordinate with National Oceanic & Atmospheric Administration (NOAA) colleagues and external stranding response network partners to organize and execute the response and rehabilitation of injured and distressed marine mammals throughout the region. Coordinated marine mammal necropsies including small and large cetaceans, seals and porpoise. Accomplishments include the creation of a streamlined data collection and sample processing method for all dead stranded marine mammals including a code system for cause of mortality. A summary manuscript was published with this data in 2008 summarizing mortality trends in marine mammal of Cape Cod. Skills include trailer and small boat operation, marine mammal rehabilitation/triage, beach response, training of volunteers and interns as well as communication of science with the general public as well as scientific community locally and nationally. Public education and outreach is a large component of the work done through the stranding network to increase awareness of marine mammals and promote protected species conservation programs.

**Guest Investigator- Woods Hole Oceanographic Institution, (04/01/03-10/01/05)**

**Guest Student- Woods Hole Oceanographic Institution, (06/01/01-04/30/03)** Appointment in the lab of Dr. John Stegeman to complete Master's research work on CYP1A1 studies in seals of Cape Cod.

### **III. TEACHING EXPERIENCE**

**Faculty- Marine Studies Consortium (9/02/2020-) Bio 240A Introduction to Marine Mammals.** Development of curriculum and course work for undergraduate students from several universities. This course covers basic biology, anatomy and physiology, threats to marine mammals, laws and human dimension research. Fall 2020 was developed into an on-line synchronous course.

**Adjunct Faculty-Massachusetts Maritime Academy, Buzzards Bay, MA. Marine Mammals 4329-19 (03/01/2019-06/01/2020)** Development of curriculum and course work for undergraduate students. This course covers basic biology, anatomy and physiology, threats to marine mammals, laws and human dimension research, with an emphasis on species and issues relevant to the experiences that the cadets at MMA may encounter. This includes interactions with North Atlantic rights and the navigational challenges to both whales and vessels. Spring 2020 was developed into an on-line synchronous course.

**Instructor- Woods Hole Children's School of Science, Woods Hole MA, (06/01/2002-7/30/2018)** Developed coursework and curriculum for several classes including: Seashore Life (age 7-8), Marine Mammals (age 13-15), Experiments in Woods Hole (age 13-16) and Global Sustainability (age 13-15). Classes are three weeks long each summer.

**Adjunct Lecturer- Bridgewater State University, BIOL 408 Marine Mammal Biology, (07/05/2015-8/04/2019)** Duties include development of curriculum and course work for 10-20 undergraduate and graduate students in this intensive summer science and writing course. Along with this course, lectures are given outside of the normal course time for the "ask the professor" lecture series to promote open public education and outreach. A one -day workshop was also developed on Marine Mammals and Ocean and Human Health for the public.

**Teaching Faculty- Shoals Marine Lab, ME (UNH/Cornell). Introduction to Marine Mammals, (05/28/2015-08/20/2019)** Co- Instructor for Marine Mammal Biology for undergraduate students from several universities. The course is an intensive 2-week summer course where students and faculty are expected to work 10 hours a day immersed in science, writing, teaching and communicating science. Classes are between 10-20 students. Students and faculty live at the Shoals Marine Lab. Related skills include course development, small boat operation and teaching science to a diverse range of students in an intensive 2 weeks course period. Education program analysis and evaluation is completed for every year of the course.

**Marine Mammal Research Mentor/Seal Program Lead- Shoals Marine Lab, ME (UNH/Cornell) (05/20/2011-current)** This mentorship and research program includes the development of science based curriculum and implementation of a long term undergraduate education program for Seal Research. This data set has been used for aiding in management of marine mammals and presented at national and international conferences. Grants were written and awarded to support the program and materials for the internship program that supports up to three interns each summer. Skills include boat handling, photo ID, teaching, curriculum development and organizing guest lecturers to the island. Related skills also include writing and obtaining marine mammal research permits as a Principle Investigator for Level B harassment for this research. Skills also include resolving and finding alternative solutions to interpersonal personnel problems that arise with undergraduate students in a long term field station environment. Strategies to alleviate tension, including mindfulness and stress coping mechanisms, have been implemented into the internship curriculum. Fourteen students have been mentored through this program.

**Northwest Atlantic Seal Research Consortium (NASRC)- Mentorship/Students (06/2013-current)** Three students have been mentored through NASRC directly to assist in graduate program and degree completion based on the work of NASRC. Keith Hernandez- Using alternative diet analysis methods for studying gray seal foraging ecology on Cape Cod. Louisiana State University, 2016. Doctoral dissertation on the foraging ecology of gray seals. Northwest Atlantic Seal

Research Consortium Intern.; Nathan Alexander- Examining Stakeholder Perspectives of Human-Seal-Shark Overlap on Cape Cod, Master's, Tufts Cummings School of Veterinary Medicine Center for Animals and Public Policy 2019. Co-advisor on this externship with the Northwest Atlantic Seal Research Consortium.; Anja Haeussler, Master's Thesis on the Seal Debate on Cape Cod and the Islands. University of Applied Science Bremen, Germany. Northwest Atlantic Seal Research Consortium Intern, September 2013- March 2014.

#### IV. RESEARCH SKILLS

**Laboratory**- Immunology assays, clinical marine mammal blood evaluation (cbc/chemistry), ELISA, PCR, quantitative PCR/RT-PCR with Syber and Taqman technology, immunohistochemical staining, multiplex qPCR and probe development, microscopy, cytology, standard microbiology techniques, flow cytometry, stable isotope sample preparation, gross pathology and necropsy of marine mammals (large whales, small cetaceans and pinnipeds), sharks and seabirds.

**Computer Software**-Proficient in Microsoft Office, ArcGIS, SigmaStat, Minitab, ACCESS database development.

**Field**- Small boat operation; operational experience of trawl, sink gillnet and hook and line fisheries; first aid and CPR; pinniped and cetacean restraint, handling, health assessment and biological sampling, tagging (flipper), tagging (instrumentation), biopsy sampling; large whale/small cetacean and pinniped field necropsy.

**Communication**- Fluent in Spanish.

#### MARINE MAMMAL RESEARCH CAPTURES

All capture work on gray and harbor seals was through collaboration with National Marine Fisheries Service (NMFS) Northeast Fisheries Science Center staff in Woods Hole, MA. Through these collaboration, including work with NEFSC protected species branch staff, results and impacts of work was assessed with an emphasis on species protected by the Marine Mammal Protection Act. While seals are not protected under the Endangered Species Act, the impact on the habitats and ecosystems on which they depend was also considered in our research.

- 2001 Gray seal pup captures, Muskeget Island, MA. Biological sampling, handling, Sampling by invitation of NMFS NEFSC, Woods Hole, MA.
- 2011 Adult harbor seal captures, Rockland, ME and Chatham, MA, April 2011. Biological sampling, handling, planning and logistics by invitation of NMFS NEFSC, Woods Hole, MA.
- 2012 Adult harbor seal captures, Rockland, ME April 2012 and Long Island, NY December 8<sup>th</sup> 2012, Biological Sampling, handling, planning and logistics by invitation of NMFS NEFSC, Woods Hole, MA.
- 2013 Adult gray seal captures, Chatham, MA. June 16-20<sup>th</sup> 2013, Biological sampling, planning and logistics by invitation of NMFS NEFSC, Woods Hole, MA.
- 2014 Gray seal pup captures, Muskeget Island, MA. January 16-24<sup>th</sup>, Planning and logistics with Mystic Aquarium, Mystic, CT, MIT, and NMFS NEFSC, Woods Hole, MA.
- 2015 Gray Seal pup captures, Muskeget Island, MA. January 16-24<sup>th</sup> Sampling, Planning and logistics with MIT and NMFS NEFSC, Woods Hole, MA.
- 2015 California Sea Lion Unusual Mortality Event, Support team to assist with necropsy and live animal response, February-June, by invitation of NOAA MMHSRP at the Pacific Marine Mammal Center, Laguna Beach CA; Fort Macarthur Marine Mammal Center, Long Beach CA; the Marine Mammal Center, Sausalito CA.
- 2015 Bottlenose dolphin Health Assessment Captures, Brunswick, Georgia. September 10-16<sup>th</sup>, by invitation of NOAA.
- 2016 Gray seal pup captures, Monomoy and Muskeget Island, MA. January 16-24<sup>th</sup>, Planning and logistics with MIT and NMFS NEFSC, Woods Hole, MA.
- 2017 Gray seal pup captures, Monomoy and Muskeget Island, MA. January 16-24<sup>th</sup>, Planning and logistics with MIT and NMFS NEFSC, Woods Hole, MA.
- 2018 Gray seal pup captures, Monomoy and Muskeget Island, MA. January 10-24<sup>th</sup>, Planning and logistics with Tufts and NMFS NEFSC, Woods Hole, MA.
- 2019 Gray seal pup captures, Monomoy and Muskeget Island, MA. January 10-24<sup>th</sup>, Planning and logistics with Tufts and NMFS NEFSC, Woods Hole, MA

## V. AUTHORIZATION/MARINE MAMMAL PERMITS

Principle Investigator- MMPA General Authorization 20412: 2016-2021

Co-Investigator MMHSRP Permit # 18786-01: 2017-2020

Co-Principle Investigator MMPA General Authorization 17670-16260 NEFSC: I 2011-2018

NMFS Education/Parts: Permit holder.

NMFS Marine Mammal Tissues for health research purposes: Permit holder.

## VI. AWARDS

### Professional Residency/Fellowships

Emerging Scientist in Residence, Mystic Aquarium	2019
Knoll Farms, Better Selves Fellow	2018
Peaked Hill Trust, Artist/Scientist in Resident at the Cape Cod National Seashore	2018

### Graduate

Best Student Poster, American Fisheries Society Southern New England Regional Chapter Meeting	2013
Multicultural Fellowship Award UCONN	2011-2014
Switzer Environmental Leadership Fellowship	2011
UCONN Department of Pathology and Veterinary Sciences Pre-Doctoral Fellowship	2010, 2011, 2013
Sounds Conservancy Grants Program/QLF Grant	2002, 2010, 2013
Interdisciplinary Research Training Initiative on Coastal Ecosystems and Human Heath Fellowship	2008-2011
Boston University Marine Program Humes Award Grant	2002

### Undergraduate

UC Davis Chancellor's Achievement Award and Scholarship	1994-1997
UC Berkeley Regents Award and Scholarship	1994
PTO Scholarship Hidden Talents and Accomplishments Scholarship	1994
National Hispanic Scholarship Recognition Program semi-finalist	1994
Paul McNeil/Rotary Award and Scholarship	1994

## VII. COMMUNITY LEADERSHIP and OUTREACH

2020	<b>Webinar Series.</b> Creation of a Webinar meeting summer series for the Northwest Atlantic Seal Research Consortium. Goal is to connect consortium participants during COVID.
2019	<b>Chair</b> , Northwest Atlantic Seal Research Consortium 6 <sup>th</sup> meeting. Seals and Society: Shifting Ecological and Social Baselines. UMass Dartmouth, SMAST Campus, New Bedford MA. To be held May 3 <sup>rd</sup> , 2019.
2019	<b>Truro Town Meeting</b> , Presentation to the Board of Selectmen on the History, Biology and Ecology of Seals of Cape Cod. January 8 <sup>th</sup> , Truro Town Hall, Truro, MA.
2018	<b>Cape Cod National Seashore, Panelist</b> , White Shark Public Information Session: Sharks, Seals, and Public Safety, November 14 <sup>th</sup> , Nauset Middle School, Orleans, MA.
2018	<b>Task Force Participant</b> , One Health Commission.
2018	<b>Conservation Program development</b> : The Science of Seals, Sharks and Fisheries: Pier Host Program, Chatham Fish Pier in collaboration with the Cape Cod Commercial Fisheries Alliance, the Atlantic White Shark Conservancy and the Northwest Atlantic Seal Research Consortium.
2018	<b>Chair</b> , Northwest Atlantic Seal Research Consortium Biennial Meeting: "Seals Science and Management: Where Research and Reason Meet." SMAST, New Bedford, April 27 <sup>th</sup> 2018. Lead author for report.
2018	<b>WHOI Ocean Science Café</b> , development of a community science lecture series with the Woods Hole Oceanographic Institution. "Seals, Sharks and Humans" January 18 <sup>th</sup> 2018 and December 3 <sup>rd</sup> 2018.
2017	<b>Session Chair</b> , Anatomy and Morphology Speaker Session, Society for Marine Mammalogy, Halifax NS, Canada, October 28, 2017.

2017 **Panelist**, Pinniped Disentanglement Workshop Society for Marine Mammalogy Conference, Halifax, NS Canada October 28<sup>th</sup> 2017

2017 **Board of Trustees**, Member, National Marine Life Center, Buzzards Bay, MA. (2016-2019)

2017 **Board Member**, Friends of Monomoy National Wildlife Refuge, Chatham, MA. (2016-2019)

2017 **Healthy Ecosystems: Sharks and Seals**, Education material developed with the Atlantic White Shark Conservancy and Northwest Atlantic Seal Research Consortium.

2017 **Community Leadership Institute**, Cape Cod, Class of 2017.

2016 **Co-Chair**, Northwest Atlantic Seal Research Consortium, Health Working Group. Completed report on **Pinniped Health Risk Factors**, to be published as a technical report through NOAA's Greater Atlantic Regional Office (GARFO).

2016 **Guidelines for Fishermen on Marine Pathogen Exposure Risks**, in development with the Fishermen's Partnership, Center for Coastal Studies and the Massachusetts Department of Public Health.

2016 **Pilot Program Developed to Retrieve Fisheries Bycatch from Commercial Fishing Vessels** with the NEFSC Seal Program.

2015 **Workshop: A Cooperative Training Workshop on Marine Animal - Fisheries Interactions for Scientists, Fishermen, Marine Mammal Stranding Network Personnel and Fisheries Managers.**  
Co-organized with O. Nichols. December 1<sup>st</sup> and 2<sup>nd</sup> 2015. Lead writer for report.

2015 **Northwest Atlantic Seal Research Consortium and the Northeast Fisheries Observer Program**, 1<sup>st</sup> Seminar Series, October 30<sup>th</sup> 2015.

2015 **Workshop: Northeast Fisheries Science Center/Northwest Atlantic Seal Research Consortium**  
"Setting Research Priorities for the NEFSC Seal Program in 2016 and beyond." Co-Organized with NEFSC Woods Hole. October 16, 2015. Recommendations led to the five year research plan for the NEFSC Seal Research Program.

2015 **Biennial Meeting, Northwest Atlantic Seal Research Consortium. Seals and Ecosystem Health**  
Organized- Salem State University, May 2, 2015.

2013 **Media Workshop, Northwest Atlantic Seal Research Consortium (NASRC)**. Organized meeting, program developed by the WHOI public relations team S. Murphy and A. Satake. August 8<sup>th</sup> 2013.

2013 **Organizational Meeting, Northwest Atlantic Seal Research Consortium**, held at Tufts Cummings School of Veterinary Medicine. Lead organizer for meeting and workshop to develop consortium and address issues of animal-human conflict, April 18, 2013.

2012 **Chair, Northwest Atlantic Seal Research Consortium (NASRC)** Co-founder, Steering committee member, [nasrc.whoi.edu](http://nasrc.whoi.edu). (2012-current). lead member and creator of a team delivering products and services related to conservation, education, and/or outreach programs for protected species, specifically pinnipeds in the NW Atlantic.

2011 **Marine Animal Identification Network- [main.whoi.edu](http://main.whoi.edu)**, Developed website and database for marine mammal sightings/seal tags with WHOI web development and computer information systems specialists. PROJECT OF NASRC (current).

2011 **Gulf of Maine Pinnipeds: Fisheries Interactions and Integrated Research**. Workshop. Sponsored by the WHOI Marine Mammal Center. Provincetown Center for Coastal studies, October 28<sup>th</sup>, Provincetown. Chair, O. Nichols. (Grant awarded to A. Bogomolni by the WHOI Marine Mammal Center, \$18,500)

2010 **French Caribbean Stranding Workshop, Guadeloupe**. Developed training modules and lead workshop training on stranding response; marine mammal health.

2009-12 **Graduate Student Representative** to the College of Agriculture and Natural Sciences (CANR), UCONN.

2009 **Marine Mammal Stranding Response in the Dutch Caribbean, Curacao**. Workshop. Developed training modules and lead workshop training on stranding response; marine mammal health; necropsy.

2008 **Gulf of Maine Pinnipeds: Populations, Problems and Priorities**. Workshop. Sponsored by the WHOI Marine Mammal Center. Woods Hole, May 29<sup>th</sup>-29<sup>th</sup> WHOI. Lead Organizer A. Bogomolni (Grant awarded to A. Bogomolni by the WHOI Marine Mammal Center of \$25,000)

2005 **Trinidad and Tobago Stranding Response Workshop, Trinidad**. Developed training modules and lead workshop training on stranding response; marine mammal health; necropsy.

2004 **Eastern Caribbean Cetacean Network**. Stranding and Database Coordinator (09/04- 10/11).

2000 **Cape Cod Stranding Network, Inc (CCSN)/ IFAW- Volunteer** (12/00- current).

## VIII. RECENT AWARDED GRANTS and FELLOWSHIPS

2018 **National Marine Sanctuaries Foundation**. Characterizing Depredation and Bycatch in NE Sink Gillnet (\$119,000, PI Owen Nichols, Co- PIs Alex Boconcilli, Andrea Bogomolni and Doug Feeney)

2017 **US Marine Mammal Commission**. Pilot funds to Characterize Depredation and Bycatch in NE Sink Gillnet (\$40,000 PIs Alex Boconcilli, Andrea Bogomolni, Owen Nichols)

2016 **World Animal Protection**. Photo Identification and Population Counts at the Isles of Shoals: Characterization Entanglement in Harbor Seals and Gray Seals Documented at Duck Island, Isles of Shoals, Maine (\$1,000). PI

2015 **Ocean Life Institute, Woods Hole Oceanographic Institution**. Cetacean Susceptibility to Morbillivirus (\$38,923, PI R. Gast WHOI).

2015 **Morris Animal Foundation Postdoctoral Traineeship Fellowship** (\$100,000)

2015 **CINAR**. Assessing the pathogenesis and host susceptibility to dolphin morbillivirus in cetaceans (\$20,290, Pi M. Moore WHOI).

2014 **Worthington Foundation**. A Cooperative Training Workshop on Marine Animal - Fisheries Interactions for Scientists, Fishermen, Marine Mammal Stranding Network Personnel and Fisheries Managers (\$9,000)

## IX. PUBLICATIONS: Peer Reviewed, Technical Reports, Books and Book Chapters

1. Amy Apprill, Carolyn Miller, Jana M. U'Ren, Matthew S. Leslie, Laura Weber, Robin W. Baird, Jooke Robbins, Scott Landry, Misty Niemeyer, Kathryn Rose, **Andrea Bogomolni**, Gordon Waring. (2020). Host phylogeny shapes marine mammal skin microbiomes. Royal Society Open Press, 7 (5) 192046.
2. WD Krucki, B Mangold, **A Bogomolni**, W Puryear, T Romano, and M Keogh. (2020). Normal Blood Values of Weanling Northwest Atlantic Gray Seals. Journal of Zoo and Wildlife Medicine 51 (1), 228-231.
3. Hernandez KM, **Bogomolni AL**, Moxley J, Waring G, DiGiovanni R, Hammill M, Johnston D, Sette L, Polito M. (2019). Seasonal variability and individual consistency in gray seal (*Halichoerus grypus*) isotopic niches. Canadian Journal of Zoology. 97 (11), 1071-1077 <https://doi.org/10.1139/cjz-2019-0032>
4. Maria Clara Iruzun Martins, Lisa Sette, Elizabeth Josephson, **Andrea Bogomolni**, Kathryn Rose, Sarah M Sharp, Misty Niemeyer, Michael Moore. (2019). Unoccupied Aerial System assessment of entanglement in Northwest Atlantic gray seals (*Halichoerus grypus*), Marine Mammal Science, 35 (4), 1613-1624.
5. Frasca, S. Jr., Gast, R.J., **Bogomolni, A.** and S. Szczpanek. Marine Disease Ecology- Diagnostics. Section 3: Chapter 11. Working with Infectious Diseases. Oxford University Press.
6. Bernaldo de Quiros Y. Hartwick M, Rotstein D, Garner M, **Bogomolni A**, Greer W, Niemeyer M, Early G, Wenzel F, Moore M. (2018) Discrimination between Bycatch and Other Causes of Cetacean and Pinniped Stranding. Diseases of Aquatic Organisms. Vol. 127: 83–95. <https://doi.org/10.3354/dao03>
7. Moxley J, **Bogomolni A**, Hammill M, Moore K, Polito M, Sette L, Sharp B, Waring G, Gilbert J, Halpin P, Johnston D. (2017). Google Haul Out: Earth-Observation Imagery and Digital Aerial Surveys in Coastal Wildlife Management and Abundance Estimation. Bioscience 67, 8: 760-768.
8. Puryear WB, Keogh M, Hill N, Moxley J, Josephson E, Davis KR, Bandoro C, Lidgard D, **Bogomolni A**, Levin M, Lang S. (2016). Prevalence of influenza A virus in live-captured North Atlantic gray seals: a possible wild reservoir. Emerging Microbes & Infections. Aug 1;5(8): e81.
9. AL Bass, **AL Bogomolni**, GA Early, OC Nichols, K Patchett. 2016. Seals and ecosystem health: meeting report of the Northwest Atlantic Seal Research Consortium. Woods Hole Oceanographic Institution. 2016-01.
10. **Bogomolni A.**, Bass A., Fire S., Jasperse L., Levin M., Waring G., De Guise S. (2016). Saxitoxin Increases Phocine Distemper Virus Replication upon *In-Vitro* Infection in Harbor Seal Immune Cells. Harmful Algae 51, 89-96.
11. Gebhard E., Levin M., **Bogomolni A.**, De Guise S. 2015. Immunomodulatory effects of brevetoxin (PbTx-3) upon in vitro exposure in bottlenose dolphins (*Tursiops truncatus*). (2016). Harmful Algae 44, 54-62.
12. **Bogomolni, A** Frasca Jr S., Levin M., Matassa K., Nielsen O., Waring G., De Guise S. (2015). *In-Vitro* Exposure of Harbor Seal Immune Cells to Aroclor 1260 Alters Phocine Distemper Virus Replication, Archives of Environmental Toxicology (2015) 1-12.
13. **Bogomolni, A.**, Frasca Jr, S., Nielsen, O., De Guise, S. (2015). Development of a One Step Duplex RT-qPCR Assay for the Detection of PDV. Journal of Wildlife Diseases 51(2) 454-465.

14. Bernaldo de Quirós, Y., Seewald, J.S., Sylva, S.P., Greer W., Niemeyer, M., **Bogomolni, A.L.**, Moore M.J. (2015). Compositional discrimination of decompression and decomposition gas bubbles in bycaught seals and dolphins. *PLOS One* 8:12, e83994, 2013.
15. Bolanos, J., Luksenburg, J., Mignucci-Giannoni, A.A., **Bogomolni, A.**, Blumenthal, J., Casas, J.J., Henriquez, A., Iniguez, M., Khan, J., Rinaldi, C., Rodriguez-Ferrer, G., Ward, N., Sutty, L., Giovannetti, N. (2014). Distribution, feeding habits and morphology of killer whales (*Orcinus orca*) in the Caribbean Sea. *Mammal Review*, 16 March 2014. doi: 10.1111/mam.12021.
16. Bolaños-Jiménez, J., Mignucci-Giannoni, A., Blumenthal, J., **Bogomolni, A.**, Casas, J. J., Henríquez, A., & Luksenburg, J. A. (2012). KILLER WHALES (*ORCINUS ORCA*) IN THE CARIBBEAN SEA AND ADJACENT WATERS OF THE CENTRAL-WESTERN ATLANTIC. *The Cetaceans of Aruba: a Multidisciplinary Study*, 72.
17. Ward, N., **Bogomolni, A.** Potter, C. A Stranding Guide to the marine mammals of the wider Caribbean region. An introductory guide for stranding responders. 2014.
18. Campbell-Malone, R and **Bogomolni, A.L.** Marine Mammal Forensics: Chapter in Wildlife Forensics, CRC Press, Ed. 2013. Dr J.E. and M. Cooper. 770 pp.
19. Paul D. Jepson, Michelle Barbieri, Susan G. Barco, Yara Bernaldo de Quiros, **Andrea Bogomolni**, Kerri Danil, Teri Rowles. Peracute underwater entrapment of pinnipeds and cetaceans. Chapter in: Moore, MJ, van der Hoop, J, Barco, SG, Costidis, AM, Gulland, FM, Jepson, PD, Moore, KT, Raverty S, McLellan, WA. (Editors) (2013). Criteria and case definitions for serious injury and death of pinnipeds and cetaceans caused by anthropogenic trauma: underwater entrapment, chronic entanglement, sharp and blunt vessel, and gunshot. *Diseases of Aquatic Organisms*. 103: 229–264.
20. Nichols, O., **Bogomolni, A.**, Matassa, K. Early, G. Sette, L. and S. Wood. Gulf of Maine Seals- Fisheries Interactions and Integrated Research. Workshop proceedings Technical Report WHOI document 2012-12. <http://www.whoi.edu/fileserver.do?id=129565&pt=2&p=41026>.
21. **Bogomolni, A.**, Early, G., Matassa, K., Nichols, O., Sette, L. Gulf of Maine seals - populations, problems and priorities. Technical Report WHOI document. [http://hdl.handle.net/1912/3701\\_WHOI-2010-04.pdf](http://hdl.handle.net/1912/3701_WHOI-2010-04.pdf) Date: 2010-06.
22. **Bogomolni, Andrea**, Pugliares, Katie R, Sharp, Sarah M., Patchett, Kristen, Harry, Charles T., LaRocque, Jane M., Touhey, Kathleen M., and Michael Moore Mortality Trends of Stranded Marine Mammals on Cape Cod and Southeastern Massachusetts, U.S.A 2000-2006. *Dis Aquat Organ*. 2010 Jan 25;88 (2):143-55.
23. David C Evers, Robert P Mason, Neil C Kamman, Celia Y Chen, **Andrea L Bogomolni**, David L Taylor, Chad R Hammerschmidt, Stephen H Jones, Neil M Burgess, Kenneth Munney, and Katharine C Parsons. Integrated Mercury Monitoring Program for Temperate Estuarine and Marine Ecosystems on the North American Atlantic Coast. *Ecohealth* March 18, 2009.
24. Michael J. Moore, **Andrea L. Bogomolni**, Sophie E. Dennison, Greg Early, Michael M. Garner, Brett A. Hayward, Betty J. Lentell, and David S. Rotstein. Gas bubbles in seals, dolphins and porpoises entangled and drowned at depth in gill nets. *Veterinary Pathology* January 27, 2009.
25. Rose, Julie; Gast, Rebecca; **Bogomolni, Andrea**; Ellis, Julie; Lentell, Betty; Touhey, Kathleen; Moore, Michael. Occurrence and patterns of antibiotic resistance in vertebrates off the Northeastern United States coast. *FEMS Microbiology Ecology* 67: 421-431, 2009.
26. M. J. Moore, R. J. Gast, **A. L. Bogomolni**. Marine vertebrate zoonoses: an overview of the DAO Special Issue: DAO 81: 1-3, 2008.
27. **Bogomolni AL**, Gast RJ, Ellis JC, Dennett M, Pugliares KR, Lentell BJ, Moore MJ. Victims or vectors: a survey of marine vertebrate zoonoses from coastal waters of the Northwest Atlantic. DAO 81: 13-38, 2008.
28. Lasek-Nesselquist E, **Bogomolni AL**, Gast RJ, Welch DM, Ellis JC, Sogin ML, Moore MJ. Molecular characterization of *Giardia intestinalis* haplotypes in marine animals: variation and zoonotic potential, DAO 81:39-51, 2008.
29. Pugliares, K., **Bogomolni, A.**, Touhey, K., Herzig, S. Harry, C.T., and M. Moore. Marine Mammal Necropsy: An Introductory Guide for Stranding Responders and Field Biologists. Woods Hole Oceanographic Institution Technical Report- WHOI-2007-06, September 2007.
30. Montie, E; Schneider, G; Moore, M; Ketten, D; Arruda, J; Touhey, K; **Bogomolni, A**; Hahn, M. Using magnetic resonance imaging (MRI) to obtain volume estimates of cetacean brain regions that depend on thyroid hormones for maturation. *Journal of Experimental Zoology Part A: Comparative Experimental Biology*. 305A (2) 157, 2006.

31. **Bogomolni, A.**, Ellis, J., Gast, R., Harris, B., Pokras, M. and M. Moore. (2006) Emerging zoonosis in Marine Mammals and Sea Birds in the Northeast U.S. Oceans'06. MTS/IEEE-Boston, Massachusetts September 18-21, 2006. ISBN: 1-4244-0115-1.: 8 pp
32. Moore M, **Bogomolni A**, Bowman R, Hamilton P, Harry C, Knowlton A, Landry S, Rotstein D, Touhey K (2006) Fatally entangled right whales can die extremely slowly. Oceans'06 MTS/IEEE-Boston, Massachusetts September 18-21, 2006 - ISBN: 1-4244-0115-1.: 3 pp.
33. **Bogomolni, Andrea L.**; Campbell-Malone, Regina; Lysiak, Nadine; Moore, Michael J. Report of large whale restraint workshop. <http://hdl.handle.net/1912/2999> 2006.

## X. PUBLICATIONS, In preparation

1. **Bogomolni A.**, Frasca Jr S., Di Giovanni R., Matassa K., Nielsen O., Schuh J., De Guise S. *In-vitro* Phocine Distemper Virus (PDV) Infection Indicates Differences in Viral Replication in Northwest Atlantic Harbor seal (*P. vitulina concolor*), Harp seal (*P. groenlandica*) and Gray Seal (*H. Grypus*). *In preparation*.
2. **Andrea L. Bogomolni**, Keith A. Matassa, Ole Nielsen, David Rotstein, Shannon Prendiville, Sylvain De Guise. Quantification and Tissue Tropism of Phocine Distemper Virus in Seals from the 2006 Northeast U.S. Pinniped Unusual Mortality Event (UME) Suggests Sub-Clinical Carriers. *In preparation*.
3. **Andrea Bogomolni**, Michelle Barbieri, Sylvain De Guise, Deborah Fauquier, Frances Gulland, Christine Fontaine, Steven Osborn, Gayle Sirpenski, Teri Rowles. Determining relative susceptibility of Hawaiian monk seal, northern fur seal, California sea lion, and northern elephant seal to phocine distemper virus using an *in-vitro* approach. *In Preparation, to be submitted to Marine Mammal Science*.

## XI. POPULAR MEDIA/PUBLICATIONS

1. **Going Full Ninja on Smelly Seals With Andrea Bogomolni**, Shark Tales October 17, 2019. NBC10 Boston. <https://podcasts.apple.com/us/podcast/going-full-ninja-on-smelly-seals-with-andrea-bogomolni/id1473143832?i=1000452685400>
2. **Cold, Dark, and Sharky- Outside In** Radio. By Sam Evans-Brown. September 26<sup>th</sup> 2019.
3. **Seals On Cape Cod Are More Than Just Shark Bait**. By Miriam Webster. August 2, 2019. WBUR Boston. <https://www.wbur.org/earthwhile/2019/08/02/seal-culling-sharks-cape-cod>.
4. **Does Cape Cod Have A Gray Seal Problem? We Dig Into The Science**. By Tiziana Dearing and Zoë Mitchel. WBUR Boston. July 2019. <https://www.wbur.org/radioboston/2019/08/20/seals-cape-cod-science>.
5. **Is it time to address the large seal population to prevent shark attacks?** By Vicki Graf , Bob Dumas Boston 25 News. Updated: May 21, 2019. <https://www.boston25news.com/news/is-it-time-to-address-the-large-seal-population-to-prevent-shark-attacks-/950879500>
6. **Seals were once nearly wiped out from the Gulf of Maine. Here's how they were brought back**. By Hadley Barndollar, Portsmouth Herald • July 2, 2018.
7. **Scientists address myths, misinformation about seals**. Cape Cod Chronicle October 31, 2018. <https://t.co/pFcPYkY9oW>
8. **Wellfleet Officials Hold Forum to Discuss Shark Safety**. By SARAH MIZES-TAN · SEP 28, 2018 <https://www.capecodislands.org/post/wellfleet-officials-hold-forum-discuss-shark-safety#stream/0>
9. **Down to Earth: Seals, sharks and sustainability**. Anne Mazar. MetroWest Daily News, Aug 02, 2013 <http://www.metrowestdailynews.com/entertainment/x853698345/Down-to-Earth-Seals-sharks-and-sustainability>.
10. **The U.S. East Coast from Above**. VIDICOM, Germany. Featured segment: 1 of 5. Filmed September 2013.
11. **Marine Mammals Meet Modern Medicine**. Video by Ari Daniel Shapiro, Oceanus Online August 23, 2013. <http://www.whoi.edu/oceanus/feature/whale-patients>
12. **Sharks and Seals**. Interviewed on WCAI, Public Radio Station, Woods Hole, MA. July 2013.
13. **Scientists hope to help seals and human better co-exist**. Beth Daley. Boston Globe, December 28, 2012.
14. Pathobiology Student Making Waves. Sheila Foran. UCONN Today. October 11, 2011. Foran. <http://today.uconn.edu/blog/2011/10/pathobiology-grad-student-making-waves/>
15. **How Kitty is Killing the Dolphins**. Written by Chris Solomon. Scientific American, May 2013.

16. **Sea Sick.** Written by B. Kessler. Conservation Magazine September 2010. August 26th 2010. Volume 11, Number 3. <http://www.conservationmagazine.org/2010/08/sea-sick/print/>
17. **Disease Agents Are Accumulating In Sea Life.** Written by K.Toms. Oceanus. Oct 2009, Vol. 47 Issue 2, p 30.
18. **Scientists Investigate Mysterious Duck Die-offs.** Written by K. Madin. Oceanus; Oct 2009, Vol. 47 Issue 2, p 34.

## XII. CONFERENCE PRESENTATIONS

1. **Bogomolni, A. and O. Nichols.** Community Science and Cooperative research to address rebounding Marine Mammal Populations. American Fisheries Society, Annual Meeting, Atlantic City NJ, August 18-22, 2018.
2. **Bogomolni, A. and O. Nichols.** Community Science and Cooperative research to address rebounding Marine Mammal Populations. American Fisheries Society, Western Division Conference. Anchorage Alaska May 20-25, 2018.
3. **Bogomolni, A. and O. Nichols.** A Cooperative Training Workshop on Marine Animal - Fisheries Interactions for Scientists, Fishermen, Marine Mammal Stranding Network Personnel and Fisheries Managers. Marine Mammal Health and Stranding Response National Meeting, Sheperdstown, WV. September 5-9<sup>th</sup> 2016
4. **Bogomolni, A.** Morbilliviruses in Marine Mammals. Marine Mammal Health and Stranding Response National Meeting, Sheperdstown, WV. September 5-9<sup>th</sup> 2016.
5. **Andrea Bogomolni**, Michelle Barbieri, Sylvain De Guise, Deborah Fauquier, Frances Gulland, Christine Fontaine, Steven Osborn, Gayle Sirpenski, Teri Rowles. Determining relative susceptibility of Hawaiian monk seal, northern fur seal, California sea lion, and northern elephant seal to phocine distemper virus using an *in-vitro* approach. Society for Marine Mammalogy 21<sup>st</sup> Biennial Conference. San Francisco, Ca. December 2015.
6. **Bogomolni, A.** "Marine Mammals as Sentinels of Ocean Health. Wildlife Society 22<sup>nd</sup> Annual Conference, Winnipeg, Canada October 18<sup>th</sup>, 2015. Invited speaker, special session on Aquatic Animal Health and Management.
7. **Bogomolni, A.** A Collaborative Approach to Understanding the Ecological Role of Seals in the Northwest Atlantic. Greater Atlantic Regional Stranding Conference, October 15, 2015. Hyannis, MA.
8. **Bogomolni A.**, Bass A., Fire S., Jasperse L., Levin M., Waring G., De Guise S. Saxitoxin Increases Phocine Distemper Virus Replication upon *In-Vitro* Infection in Harbor Seal Immune Cells. *3<sup>rd</sup> International One Health Conference, Amsterdam, the Netherlands, March 14-18<sup>th</sup> 2015.*
9. **Bogomolni, A.** Thirteen years of Seal Health and Disease: Studies in Collaboration with the NEFSC, PSB Woods Hole, MA. Atlantic Scientific Review Group. February 5, 2014. NEFSC, Woods Hole, MA.
10. **Bogomolni, A.**, Risatti, G., Nielsen, O., Frasca, S. Di Giovanni, R., Schuh, J. De Guise, S. 31<sup>st</sup> Northeast Regional Stranding Conference April 29-May 2, 2013. Riverhead, NY. Quantifying differences in species susceptibility: Phocine Distemper virus in seals of the Northeast U.S.
11. **Bogomolni, A.**, Risatti, G., Nielsen, O., Frasca, S. Di Giovanni, R., Schuh, J. De Guise, S. Determining Differences in Species Susceptibility: Phocine Distemper Virus in seals of the Northeast US. Coastal Ecosystems and Human Health Workshop. University of Exeter, Environment and Sustainability Institute, Cornwall, England. March 20, 2013.
12. **Bogomolni. A.** Marine Viruses Overview and Emerging Epizootics in Pinnipeds of the Northeast U.S. Phocine Distemper virus. OHH Gordon Research Conference June, 8-10, 2010 University of New England, Biddeford, ME.
13. **Bogomolni, A.** The Eastern Caribbean Cetacean Network (ECCN). National Marine Animal Health and Stranding Network Conference. April 6-9<sup>th</sup> 2010 Shepherdstown, WV.
14. **Bogomolni, A.** Ellis, J., Gast, R., Dennett, M., Lentell, B., Pokras, M., Touhey, K., and Moore, M. Victims or Vectors? Zoonotic diseases in marine mammals and seabirds on the northeast U.S. coast. OHHi Principle Investigator meeting, Seattle, WA. October 7<sup>th</sup> 2009.
15. **Bogomolni, A.**, Early, G., Hayward, B., Lentell, B., Pugliares, K., and M. Moore. Assessment and comparison of health condition in bycaught and stranded marine mammals of the NE U.S. Northeast Regional Stranding Conference: Providence, April 16, 2008.
16. **Andrea Bogomolni, Katie R. Pugliares**, Kristen Patchett, Sarah Herzig, CT Harry, Jane LaRocque, Kathleen M. Touhey, and Michael Moore. Diagnosis of mortality of stranded marine mammals on Cape Cod and Southeastern Massachusetts from 2000-2006. Northeast Region Stranding Conference: Providence, RI, April 16, 2008.

17. **Bogomolni, A.** Ellis, J., Gast, R., Dennett, M., Lentell, B., Pokras, M., Touhey, K., and Moore, M. Zoonotic disease surveillance and antibiotic resistance patterns in marine mammals and seabirds on the northeast U.S. coast. 17<sup>th</sup> Biennial conference on the biology of Marine Mammals: Cape Town, South Africa Nov 29- Dec 3 2007.
18. **Bogomolni, A.** Ellis, J., Gast, R., Dennett, M., Pokras, M., Touhey, K., Tseng, F., and Moore, M. Emerging zoonotic diseases in marine mammals and seabirds: A global perspective. 4<sup>th</sup> Pan Commonwealth Veterinary Conference. Barbados, West Indies. Nov 4<sup>th</sup>-8<sup>th</sup>, 2007.
19. **Bogomolni, A.** and J. Ellis. Emerging diseases and Parasites in Marine Birds and Mammals: Common Eider Case Study. 12<sup>th</sup> annual Cape Cod Natural History Conference, Wellfleet Audubon, Hyannis, MA March 17 2007.
20. **Bogomolni, A.**, Ellis, J., Gast, R., Harris, B., Pokras, M. and M. Moore. Emerging zoonosis in Marine Mammals and Sea Birds in the Northeast U.S. Oceans'06. MTS/IEEE-Boston, Massachusetts September 18-21, 2006. Oral Presentation.
21. Moore M., **Bogomolni, A.**, Bowman, R., Hamilton, P., Harry, CT., Knowlton, A., Landry, S., Rotstein, D., Touhey, K. (2006) Fatally entangled right whales can die extremely slowly. Oceans'06 MTS/IEEE-Boston, Massachusetts September 18-21, 2006 - ISBN: 1-4244-0115-1.: 3 pp.
22. **Bogomolni, A.** Cytochrome P450, Contaminant Profile and Trophic Status of Harp, Harbor and Gray Seals of Cape Cod, Ma. USA. Presentation: 15<sup>th</sup> Biennial Marine Mammal Conference 2003- Greensboro, NC

### XIII. POSTER PRESENTATIONS, First author

1. **Bogomolni, A.**, Nichols O.C., Bocconcetti, A., Sette, L., Wenzel, F., Hernandez K.M., Feeney, D. Characterizing Bycatch and Depredation in Northeast U.S. Sink Gillnet Fisheries. World Marine Mammal Conference December 2019, Barcelona, Spain.
2. **Bogomolni, A.**, Bass, A., Fire, S., Waring, G., De Guise, S. Saxitoxin Causes an Increase in Phocine Distemper Virus During In-Vitro Infection of Harbor Seal Immune Cells. Gordon Research Conference, UNE, Biddeford, ME, USA. June 1-5<sup>th</sup> 2014.
3. **Bogomolni, A.**, Risatti, G., Nielsen, O., Frasca, S. Di Giovanni, R., Schuh, J. De Guise, S. Quantifying differences in species susceptibility: Phocine Distemper virus in seals of the Northeast U.S. 2013 International Aquatic Animal Medicine Conference, April, 2013. Sausalito, CA.
4. **Bogomolni, A.** Bass, A., Nichols, O., Patchett, K., Sette, L. Matassa, K., Early, G., Wood, S. A Collaborative Approach to Understanding the Ecological Role of Seals in the Northeast U.S. January 18, 2013 American Fisheries Society Southern New England Chapter Meeting, Avery Point, CT.
5. **Andrea Bogomolni**, Robert A. DiGiovanni, Jr., Greg Early, Keith Matassa, Owen C. Nichols, Lisa Sette and Stephanie Wood. A Collaborative Approach to Understanding the Ecological Role of Seals in the Northeast US. Fishermen and Scientists Research Collaborative. February 20-21, 2013. Truro, Nova Scotia.
6. **Bogomolni, A.** Emerging Epizootics in Pinnipeds of the Northeast U.S. Phocine Distemper virus. OHH Gordon Research Conference June, 8-10 2010. University of New England, Biddeford, ME.
7. **Bogomolni, A.**, Dennet, M., Ellis, J., Gast, R., Pokras, M., Touhey, K. and M. Moore. Zoonotic pathogens in Marine Vertebrates on the Northeast coast. American Society of Microbiology. May 21-25<sup>th</sup> 2007. Toronto, Canada.
8. **Bogomolni, A.**, Ellis, J., Gast, R., Harris, B., Pokras, M. and M. Moore. Emerging zoonosis in Marine Mammals and Sea Birds in the Northeast U.S. EcoHealth One, Madison, WI. 10/7/2006.
9. **Bogomolni, Andrea** L.; Herzig, Sarah; Knowles, Amber; Lentell, Betty; Montie, Eric W.; Moore, Michael J.; Patchett, Kristen; Sharp, W.B.; Touhey, Kathleen, M. Diagnosis and spatio-temporal distribution of mortalities in stranded marine mammals on Cape Cod and Southeast Massachusetts: 2000-2005. 16<sup>th</sup> biennial Marine Mammal Conference.
10. **Andrea Bogomolni**, Katie Touhey, Kristen Patchett, Betty Lentell, Brian Sharp, Eric Montie and Michael Moore. Marine Mammal Gross Necropsy and Histopathology Summary: Cape Cod Stranding Network 2002-2005. Northeast Regional Stranding Meeting 2005.

### XIV. CONFERENCE PRESENTATIONS, Contributing author

11. Patchett, K. Nichols, O., Bass, A., **Bogomolni, A.**, Sette, L. Matassa, K., Early, G., Wood, S. A Collaborative Approach to Understanding the Ecological Role of Seals in the Northeast U.S. Amy Apprill, Carolyn Miller, Robin Baird, Jooke Robbins, Misty Niemeyer, Gordon Waring, **Andrea Bogomolni**, Scott Landry. Comparison of skin microbiomes across 16 marine mammal species. Marine Mammal Health and Stranding Response Program National Meeting. Sheperdstown, WV. September 5-9<sup>th</sup> 2016.
12. Nichols, O., Bass, A., **Bogomolni, A.**, Patchett, K., Sette, L. Matassa, K., Early, G., Wood, S. A Collaborative Approach to Understanding the Ecological Role of Seals in the Northeast U.S. Society for Marine Mammalogy 21<sup>st</sup> Biennial Conference. San Francisco, CA. December 2015.
13. Milton Levin, Elizabeth Meiman, Lindsay Jasperse, Erika Gebhard, **Andrea Bogomolni**, Mario Acquarone, Lars Folkow, Rune Dietz, Christian Sonne, Sylvain De Guise. Effects on the Pinniped and Mouse Immune Response upon *In Vitro* Exposure to the Perfluorinated Compounds, PFOS and PFOA. 2015. 46th Annual International Association for Aquatic Animal Medicine Conference, Chicago, IL.
14. Levin, M, Meiman, E, Jasperse, L, Gebhard, E, **Bogomolni, A.**, Acquarone, M, Folkow, L, Dietz, R, Sonne, C, DeGuise, S. 2014. Effects on pinniped immune response upon in vitro exposure to the perfluorinated compounds, PFOS and PFOF. Gordon Research Conference, Oceans and Human Health, Biddeford, ME.
15. Bernaldo de Quirós, Yara; Seewald, Jeffrey S.; Sylva, Sean P.; Greer, Bill; Niemeyer, M.; **Bogomolni, A.L.**; Moore, M.J. Decompression bubbles in bycaught seals and dolphins: gas chromatographic discrimination from decomposition. Society for Marine Mammalogy 20<sup>th</sup> Biennial Conference, Dunedin, New Zealand, Dec 9-13, 2013.
16. Bamford, L., Ford, C., **Bogomolni, A.**, Bemis, W., Hadlock-Seeley, R., McCourt, E., Wells, K. Seal Populations of Duck Island, Isles of Shoals, ME: Monitoring potential indicator Populations of harbor and gray seals through survey and photographic mark-recapture. Northeast Regional Stranding Conference, April 29-May 2<sup>nd</sup> 2013, Riverhead, NY.
17. Gebhard, E, **Levin, M**, Bogomolni, A, Naar, J, De Guise, S. (2010). Brevetoxin-induced immunotoxicity in bottlenose dolphins. International Association for Aquatic Animal Medicine 41st Annual Conference. Vancouver, Canada.
18. Nadia Stegeman, Emily Christiansen, C. Rogers Williams, Charles Blend, Rebecca Harris, **Andrea Bogomolni**, Robert Maze, Rebecca Ducore, Mark Pokras. New Intermediate Host for *Polymorphus botulus* and Possible Effects on Common Eider Acanthocephalasis. Poster presentation Ecoheatlh One October 2006, Madison, WI.
19. Michael J. Moore, Hannah Allen, **Andrea Bogomolni**, Robert Bowman, Philip K. Hamilton, Charles T. Harry, Amy R. Knowlton, Scott C. Landry, David S. Rotstein, and Kathleen Touhey. Entanglement morbidity & mortality in NW Atlantic right whales between 1981 & 2005. Right Whale Consortium Meeting 2006.
20. Trevor S. Arnold, **Andrea L. Bogomolni**, Michael Ziccardi, John J. Stegeman. Immunohistochemical analysis of cytochrome P4501A1 (CYP1A1) induction in the skin, blubber and liver of harbor seal pups (*Phoca vitulina*) stranded along the California coast. 2006 MERCK/MERIAL NATIONAL VETERINARY SCHOLAR SYMPOSIUM, LSU August 2006.
21. Vanman, C., **Bogomolni, A.**, Moore, M.J. & Touhey, K. Who, Where, When and How- The spatio-temporal distribution and oceanographic correlations of strandings in a hotspot region. Presentation: European Cetacean Society Meeting April 2006.
22. Vanman, Cecilia; **Bogomolni, Andrea**; Moore, Michael J., Touhey, Kathleen. The Spatio-temporal Distribution and Oceanographic Correlations of Atlantic White-sided (*Lagenorhynchus acutus*) and Common Dolphin (*Delphinus delphis*) Strandings in Cape Cod Waters, Massachusetts, USA. 16<sup>th</sup> Society of Marine Mammalogy Conference December 2005.
23. Patchett, Kristen; **Bogomolni, Andrea**; Lentell, Betty; Moore, Michael; Sharp, W. Brian; Touhey, Kathleen M. Characterizing human interactions with marine mammals on Cape Cod and southeast Massachusetts, USA: 1999-2004. 16<sup>th</sup> Society of Marine Mammalogy Conference December 2005.
24. Ward, N.F.R., **Bogomolni, A.** and H. Richmond. Marine Mammal Strandings in the Eastern Caribbean Region. 16<sup>th</sup> Society of Marine Mammalogy Conference. November 2005.
25. R. Campbell-Malone, S. Barco, **A. Bogomolni**, D. Boyd, P-Y Daoust, G. Dobbin, D. Hartley, A. Knowlton, G. Lovewell, B. Mase, B. McLellan, K. Moore and M. Moore. Necropsy findings from the examination of two female right whales detail catastrophic skull fractures and associated hemorrhaging indicative of fatal

whale-vessel collision events. Northeast Regional Stranding Network Conference April 16<sup>th</sup>-18<sup>th</sup> 2004 Portland Maine

26. B. Lentell, **A. Bogomolni**, K. Patchett, W. Brian Sharp and K. Touhey. Review of Recent Phocid and Canid Interactions on Cape Cod, Massachusetts. Northeast Regional Stranding Network Conference April 16<sup>th</sup>-18<sup>th</sup> 2005 Portland Maine

27. E. Montie, M. Moore, D. Ketten, J. Arruda, S. Cramer, I. Fischer, K. Touhey, K. Patchett, **A. Bogomolni**, B. Lentell, B. Sharp, G. Early and M. Hahn. Anatomy, Three-Dimensional Reconstructions, and Volume Estimation of the Brain of the Atlantic White-sided Dolphin (*Lagenorhynchus acutus*) from Magnetic Resonance Images. Northeast Regional Stranding Network Conference April 16<sup>th</sup>-18<sup>th</sup> 2005 Portland Maine.

28. E. Montie, M. Moore, D. Ketten, J. Arruda, **A. Bogomolni**, and M. Hahn. Using Magnetic Resonance Imaging (MRI) to Obtain Shape and Sizes of Pinniped and Cetacean Brain Regions that Depend on Thyroid Hormones for Maturation. 2004 Star Graduate Fellowship Conference.

#### XV. INVITED SPEAKER

2020 **US East Coast Whale Watch Naturalist Workshop**. April 19<sup>th</sup>. Seals and Society. Virtual.

2019 **Piscataqua Science Café: Seals on the Shoals**. January 16, 2019. Portsmouth Brewery, Portsmouth, NH.

2019 **Seals and Sharks**. AWSC and NML. Megan Winton and Andrea Bogomolni. Maritime Academy. May 8<sup>th</sup>

2018 **Center for Coastal Studies**, Lecture Series at Napi's: "Seals as Sentinels of Ocean Health" November 28<sup>th</sup> Provincetown, MA.

2018 **Salem State University**: "Seals and Society," Animals and Society, Invited Seminar Speaker- Political Science Department.

2018 **Ocean Science Café**, Woods Hole Oceanographic Institution "Seals, Sharks and Humans" December 5<sup>th</sup> Sea Dog Brew Pub, Yarmouth, Ma.

2018 Town of **Chatham** Selectmen Meeting, invited presentation on the "History and Biology of Seals on Cape Cod." November 5<sup>th</sup>.

2018 **Wellfleet Town Meeting**: Panelist Seal Expert, September 27<sup>th</sup>.

2018 "Mythbusting our Fears: Sharks and Seals" Co-Presentation with Dr. Greg Skomal. **National Marine Life Center**, Plymouth, MA. April 5<sup>th</sup>.

2018 Development of Ocean Science Café: "Seals, Sharks and Humans, Oh MY!" Andrea Bogomolni and Owen Nichols. Quicks Hole, Woods Hole. January 31<sup>st</sup>.

2017 "Marine Mammals and Morbillivirus." **UCONN Pathobiology** Seminar Series, invited seminar speaker November 29<sup>th</sup>.

2017 Return of Seals to Cape Cod: Lessons on Conservation, Resilience, Research and Discovery, **Sandwich Newcomers**, October 8<sup>th</sup>.

2017 Community Science and Cooperative Research: Bridging the Gaps Between Ocean and Human Health. Ridgeway Seminar Speaker Series, **Mystic Aquarium**, September 20<sup>th</sup>.

2017 Isle of Shoals, Maine: Big Insights from a Tiny Island **Pinniped Entanglement Workshop**, Portland, Maine. April 3-4<sup>th</sup>.

2017 Gray Seals and Ocean Health: Benefits, Risks and Realities. **Marine Mammal Commission** Annual Meeting, Falmouth, MA. April 5-7<sup>th</sup>.

2017 Marine Zoonoses training for the **Northeast Fisheries Observer Program**, February 17<sup>th</sup>, 2017.

2016 Unintended Consequences **Nantucket**, MA November 8-9<sup>th</sup>.

2016 Seals- Seal Science for **Monomoy Middle School**, Chatham, MA. 2016-2018.

2016 Seals- Meet the Fleet, **Cape Cod Commercial Fishermen's Alliance**. March 30<sup>th</sup>.

2016 Going Gray" **Elder Services of Cape Cod** at WHOI, February 19<sup>th</sup>.

2015 Grey Seal Ecology on Cape Cod" **Falmouth Historical Society**, March 24<sup>th</sup>.

2015 Marine Mammals as Sentinels of Ocean Health **22<sup>nd</sup> Wildlife Society Meeting, Special symposium on Emerging Topics in Aquatic Medicine and management**, Winnipeg, Manitoba, CA. October 19<sup>th</sup>.

2014 Marine Mammals: Sentinels of Ocean Health **URI/RI Sea Grant**, March 19<sup>th</sup>.

2013 Grey Seals: Hook-nosed Sea Pigs **Woods Hole Oceanographic Institution**, Public Event- White Sharks/Grey Seals, Chasing the Cape's Most Charismatic Predators. WHOI, August 7<sup>th</sup>.

2013 Seals as Sentinels **Cape Cod National Seashore** Docent Training, Wellfleet, MA. June 8<sup>th</sup>.

2011 Establishing a model marine mammal stranding network in Southeast India: Necropsy and Stranding Response Training **Madras Veterinary College, Chennai, India**. November 3-11<sup>th</sup>.

2010 Marine Mammal Anatomy, Physiology and Strandings. **Boston Museum of Science**, Boston, MA. Invited speaker for volunteer training and to give background on the current exhibit, "Whales-Tohora.

2007 CSI: Marine Mammals **Cape Cod Technology Council** and Cape Cod Community College, Jr. Tech Program: Co-instructor for a 2-day course on marine mammal physiology and anatomy for high school students. July 16-17<sup>th</sup>.

2007 Bridging the Gap: Marine Mammal Strandings, Ocean and Human Health. **Cape Cod Stranding Network**- Review Training August 14<sup>th</sup>

2007 Right Whale Necropsy Forensics **Wellfleet Audubon Whale Watch Naturalist Training**. March 14<sup>th</sup>, Provincetown.

2007 Marine Mammals: Sentinels of Our Ecology **Salem State College**- Invited speaker on behalf of the Biological Society for the 25<sup>th</sup> Annual 2007 Darwin Festival. Salem, MA February 13<sup>th</sup>.

2006 Marine Mammals **Workshop on the Fate and Bioavailability of Mercury in Aquatic Environments: Effects on Human Health**. November 15-16<sup>th</sup> UNH, Durham, NH.

2006 **National Marine Life Center**- Lecture series participant at the National Marine Life Center July 26<sup>th</sup>.

2006 Whale of a Week **Martha's Vineyard Historical Society** August 3<sup>rd</sup>, Vineyard Haven.

2006 Zoonoses in Marine Mammals **Hawaii Pacific University**- Zoonoses in Marine Mammals, Necropsy facility set up, sampling and protocol development. October 2006.

2006 Emerging zoonosis in marine mammals and sea birds of the NE US." **NOAA NEFSC Observer Program**- Yearly lecture, 2006- 2019.

2005 Marine Mammal Toxicology Lecture, Biology of Whales **Brandeis University**- Biology of Whales- Lecture on Marine Mammal Toxicology and necropsy lab. April 2005- 2006.

2003 **Marine Mammal Necropsy Instruction**- Various educational groups ranging from elementary to professional level including Wheaton College, Buxton (High School), Brown University, Tufts Veterinary School, Madras Veterinary College, Brandeis University, Barnstable High School, Woods Hole Children's School of Science (ongoing to 2019).