

SUSAN E. PARKS
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EDUCATION

- 2003 *Ph.D.*, Biological Oceanography, M.I.T. & Woods Hole Oceanographic Institution
Title: “*Acoustic communication in the North Atlantic right whale*”.
Advisor: P. Tyack
- 1998 *B.A.* Biology (Neurobiology & Behavior concentration), Cornell University, *cum laude*

RESEARCH APPOINTMENTS

- 2012 - present **Assistant Professor of Biology**, Syracuse University
- 2011- 2012 **Senior Research Associate/Associate Professor** Penn State
- 2006 - 2011 **Research Associate**, Penn State
- 2007 - 2011 **Assistant Professor**, Graduate Faculty, Ecology Graduate Program & Graduate Program in Acoustics, The Pennsylvania State University
- 2003-2006 **Postdoctoral Research Associate**, Cornell University
- 2003 **Postdoctoral Investigator**, Woods Hole Oceanographic Institution
- 1998 **Graduate Research Assistant**, Woods Hole Oceanographic Institution
- 1997-1998 **Undergraduate Honors Thesis Research**, Bioacoustics Research Program, Cornell University

HONORS AND AWARDS

- 2010 **Kavli Frontiers Fellow**, National Academy of Science
- 2009 **Presidential Early Career Award for Scientists and Engineers (PECASE)**
The highest honor bestowed by the U.S. government on “outstanding scientists and engineers beginning their independent careers”. The White House, following recommendations from participating agencies, confers the awards annually.
- 2008 **Office of Naval Research Young Investigator Award (YIP)**
ONR’s Young Investigator Program seeks to identify and support academic scientists and engineers who show exceptional promise for doing creative research.
- 2007 **Participant at the ICES/PICES Conference for Early Career Scientists**
- 2005 **Participant in the Dissertations Initiative for the Advancement of Limnology and Oceanography (DIALOG VII)**
- 2004 **Best Student Paper**, Acoustical Society of America Conference, New York, NY
- 2002 **Paul Fye Teaching Fellowship**, Woods Hole Oceanographic Institution
- 2001 **Budweiser National Fish & Wildlife Foundation Conservation Scholarship**
- 2001 **Best Student Talk**, European Cetacean Society Conference, Rome, Italy.
- 1998 **National Defense Science Education Graduate Fellowship (NDSEG)**
- 1998 **National Science Foundation Graduate Fellowship**
- 1997 **Cornell University Undergraduate Hughes Scholar**

TEACHING EXPERIENCE

2012- present **Course Development & Instructor** – Bio 400 Animal Communication, Bio 100 Ocean Life –Syracuse University
2012- present **Mentor**, Undergraduate Independent Research, Syracuse University
2011 **Instructor** – Marine Bioacoustics, Acoustics Graduate Program, Penn State
2010, 2012 **Co-organizer & Speaker** for SeaBASS (International Bioacoustics Summer School Program)
2008-2011 **Lecturer**, Advances in Ecology, Penn State
2008 **Instructor** – Graduate course in field measurements in acoustics, Penn State
2007 **Course Development**, Marine Bioacoustics, Acoustics Grad Prog., Penn State
2007 **Mentor**, Undergraduate Research, Penn State
2007 **Guest lecturer**, Mammalogy, Penn State
2004 **Mentor**, Undergraduate Biology Research, Cornell University
2003 **Lecturer**, Marine Studies Consortium, Brandeis University
2002 **Teaching Assistant**, Biol. Oceanography, Woods Hole Oceanographic Institution
2002 **Teaching Assistant**, Oceanography, Sea Education Association
2000 **Guest lecturer**, Marine Mammalogy, Boston University Marine Program

RESEARCH GRANTS & CONTRACTS

Since receiving my PhD in 2003, my research program has attracted substantial funding from the National Oceanic and Atmospheric Administration and the Office of Naval Research, two of the main governmental funding agencies for marine research. In the past year, I have secured new funding from the National Science Foundation and the operational Navy. I have served as the lead investigator on five major awards, and co-investigator on seven additional awards.

National Science Foundation Emerging Frontiers, Macrosystem Biology: “EAGER: Measuring Continental Scale Anthropogenic Impacts on the Environment through Acoustics”, (Lead PI-S. Parks Co-PIs- K. Fristrup, P. Varshney)	2013-2015
Naval Facilities Engineering Command Atlantic Environmental Monitoring, “Tagging and tracking of endangered North Atlantic right whales in Florida waters”, (Lead PI – D. Nowacek, Co-PI – S. Parks)	2013-2015
Office of Naval Research “Presidential Early Career Award: Vocal behavior of North Atlantic right whale (<i>Eubalaena glacialis</i>) mother calf pairs”, (Lead PI-S. Parks, Co-PI; S. Van Parijs)	2010-2015
Office of Naval Research “SeaBASS: A marine bioacoustics summer school” (Co-PIs J. Miksis-Olds and S. Parks)	2011-2012
New England Aquarium “Potential effects of acoustic disturbance in North Atlantic right whales (<i>Eubalaena glacialis</i>)”	2010-2011

(PI- S. Parks)	
Office of Naval Research “Young Investigator Award: Assessment of acoustic adaptations for noise compensation in marine mammals” (PI- S. Parks)	2008-2011
Office of Naval Research “Fine-scale focal Dtag behavioral study of diel trends in activity budgets and sound production of endangered baleen whales in the Gulf of Maine” (Lead <i>PI</i> - S. Parks, <i>Co-PI</i> D. Wiley)	2008-2010
Office of Naval Research “Cumulative and synergistic effects of physical, biological, and acoustic signals on marine mammal habitat use” (<i>PI</i> - J. Miksis-Olds, Parks - <i>Senior Personnel on grant</i>)	2008-2010
Office of Naval Research / Penn State Applied Research Lab “SeaBASS: A marine bioacoustics summer school” (<i>Co-PIs</i> J. Miksis-Olds and S. Parks)	2009-2010
Small Business Innovation Research Subcontract “Whale behavior analysis for application to marine mammal mitigation system design” (<i>Co-PI</i> - S. Parks and M. Hastings)	2008-2009
National Oceanic and Atmospheric Administration “Functional hearing test of North Atlantic right whales in the field.” (<i>PI</i> – P. Tyack, Parks - <i>Co-Investigator</i>)	2004-2007
National Oceanic and Atmospheric Administration “Impacts of Vessel Noise on North Atlantic Right Whale Social Communication” (<i>PI</i> – P. Tyack, Parks - <i>Co-Investigator</i>)	2004-2006

PUBLICATIONS

PEER-REVIEWED JOURNALS

***- indicates lead author is student advisee**

*Matthews, L.E., McCordic, J.A., **Parks, S.E.** (2014) Remote acoustic monitoring of North Atlantic right whales (*Eubalaena glacialis*) reveals seasonal and diel variations in acoustic behavior. PLoS ONE. 9(3): e91367.

Parks, S.E., Miksis-Olds, J.L., Denes, S.L. (2014) Assessing marine ecosystem acoustic diversity across ocean basins. Ecological Informatics. Published online before print Nov. 12, 2013. 21, 81-88. doi: [10.1016/j.ecoinf.2013.11.003](https://doi.org/10.1016/j.ecoinf.2013.11.003)

Ware, C., Wiley, D.N., Friedlaender, A.S., Weinrich, M., Hazen, E.L., Bocconcelli, A., **Parks, S.E.**, Stimpert, A.K., Thompson, M.A., Abernathy, K. (2014) Bottom side-roll feeding by humpback whales (*Megaptera novaeangliae*) in the southern Gulf of Maine, U.S.A.

- 30(2), 494-511. Marine Mammal Science. Published online before print Jul. 24, 2013. doi: [10.1111/mms.12053](https://doi.org/10.1111/mms.12053).
- *Hotchkin, C., **Parks, S.** (2013) The Lombard effect and other noise-induced vocal modifications: insight from mammalian communication systems. *Biological Reviews*. 88(4), 809-824 [10.1111/brv.12026](https://doi.org/10.1111/brv.12026).
- *Tervo, O.M., Christoffersen, M.F., Simon, M., Miller, L.A., Jensen, F.H., **Parks, S.E.**, Madsen, P.T. (2012) High Source Levels and Small Active Space of High-Pitched Song in Bowhead Whales (*Balaena mysticetus*). *PLoS ONE* 7(12): e52072. doi: [10.1371/journal.pone.0052072](https://doi.org/10.1371/journal.pone.0052072).
- Parks, S.E.**, Hotchkin, C.F., Cortopassi, K.A., Clark, C.W. (2012) Characteristics of gunshot sound displays by North Atlantic right whales in the Bay of Fundy. *Journal of the Acoustical Society of America*, 131(4), 3173-3179.
- Rolland, R.M., **Parks, S. E.**, Hunt, K. E., Castellote, M., Corkeron, P. J., Nowacek, D. P., Wasser, S. K., Kraus, S. D. (2012) Evidence that ship noise increases stress in right whales. *Proceedings of the Royal Society, B*. 2012 0: rspb.2011.2429v1-rspb20112429.
- Parks, S.E.**, Johnson, M.P., Nowacek, D.P., and Tyack, P.L. (2012) Changes in Vocal Behavior of North Atlantic Right Whales in Increased Noise. In: *The Effects of Noise on Aquatic Life*, Popper, A.N., Hawkins, A. Eds., Springer, 317-320.
- Miksis-Olds, J.L., Nystuen, J.A., **Parks, S.E.** (2012) What Does Ecosystem Acoustics Reveal About Marine Mammals in the Bering Sea? In: *The Effects of Noise on Aquatic Life*, Popper, A.N., Hawkins, A. Eds., Springer, 597-600.
- Parks, S.E.**, Warren, J.D., Stamieszkin, K., Mayo, C.A., Wiley, D. (2012) Dangerous dining: surface foraging of North Atlantic right whales increases risk of vessel collisions. *Biology Letters*. Online print Aug. 3 2011. 8(1), 57-60. doi: 10.1098/rsbl.2011.0578.
- Parks, S.E.**, Searby, A., Celerier, A., Johnson, M.P., Nowacek, D.P., Tyack, P.L. (2011) Sound production behavior of individual North Atlantic right whales: implications for passive acoustic monitoring. *Endangered Species Research*. 15, 63-76.
- Canning, C., Crain, D., Eaton T.S., Nuessly, K., Friedlaender, A., Hurst, T., **Parks, S.**, Ware, C., Wiley, D., Weinrich, M. (2011) Population-level lateralized feeding behaviour in North Atlantic humpback whales, *Megaptera novaeangliae*. *Animal Behaviour*, Volume 82, Issue 4, Pages 901-909.
- Miksis-Olds, J.L., **Parks, S.E.** (2011) Seasonal trends in acoustic detection of ribbon seals (*Histriophoca fasciata*) in the Bering Sea. *Aquatic Mammals*, 37(4), 464-471.
- *Grebner, DM, **Parks, SE**, Bradley, DL, Miksis-Olds, JL, Capone, DE, Ford, JK (2011) Divergence of a stereotyped call in northern resident killer whales. *Journal of the Acoustical Society of America*, 129(2), 1067-1072.
- Stimpert, AK, Au, WWL, **Parks SE**, Hurst, T, Wiley, D (2011) Common humpback whale (*Megaptera novaeangliae*) sound types for passive acoustic monitoring. *Journal of the Acoustical Society of America*. 129(1), 476-482.
- *Grebner, DM, **Parks, SE**, Bradley, DL, Miksis-Olds, JL, Capone, DE, Ford, JKB (2011) Divergence of stereotyped call in northern resident killer whales. *Journal of the Acoustical Society of America*. 129 (2), 1067-1072.
- *Tervo, OM, **Parks, SE**, Chistoffersen, MF, Miller, LA, Kristensen, RM (2011) Annual changes in the winter song of bowhead whales (*Balaena mysticetus*) in Disko Bay, Western Greenland. *Marine Mammal Science*, Published online 7 Feb 2011.
- Parks, SE**, Johnson, M, Nowacek, D, Tyack PL (2011) Individual right whales call louder in

- increased environmental noise. *Biology Letters*. 7:33-35.
- Miksis-Olds, JL, Nystuen, JA, **Parks, SE** (2010) Detecting marine mammals with an adaptive sub-sampling recorder in the Bering Sea. *Applied Acoustics*. Volume 71, Issue 11, 1087-1092.
- Van Parijs, SM, Clark, CW, Sousa-Lima, RS, **Parks, SE**, Rankin, S, Risch, D, Van Opzeeland, IC (2009) Management, mitigation, and research applications of near real-time and archival passive acoustic sensors over variable temporal and spatial scales. *Marine Ecology Progress Series*. 395:21-36.
- *Tervo, OM, **Parks, SE**, Miller, LE (2009) Seasonal changes in the vocal behavior of bowhead whales (*Balaena mysticetus*) in Disko Bay, Western-Greenland. *Journal of the Acoustical Society of America*, 126(3), 1570-1580.
- Urazghildiiev, I., Clark, CW, Krein, T, **Parks, SE**, (2009) Detection and recognition of North Atlantic right whale contact calls in the presence of ambient noise. *IEEE Journal of Oceanic Engineering*, Vol 34, No. 3, 358-369.
- Parks, SE**, Urazghildiiev, I, Clark, CW (2009) Variability in ambient noise levels and call parameters of North Atlantic right whales in three habitat areas. *Journal of the Acoustical Society of America*, 125(2), 1230-1239.
- Parks, SE**, Clark, CW (2008) Acoustic Communication in Mysticetes. *Bioacoustics*, 17, 45-47.
- Parks, SE**, Clark, CW, Tyack, PL (2008) Long- and Short-term changes in right whale acoustic behaviour in increased low-frequency noise. *Bioacoustics*, 17, 179-180.
- Parks, SE**, Clark, CW, Tyack, PL (2007) Short and long-term changes in right whale calling behavior: the potential effects of noise on communication. *Journal of the Acoustical Society of America*, 122(6), 3725-3731.
- Parks, SE**, Brown, MB, Conger, L, Hamilton, PK, Knowlton, AR, Kraus, SD, Slay, C, Tyack, PL (2007) Occurrence and composition of surface active groups in North Atlantic right whales (*Eubalaena glacialis*). *Marine Mammal Science*. 23(4), 868-887.
- Parks, SE**, Ketten, DR, O'Malley, JT, Arruda, J. (2007) Anatomical predictions of hearing in the North Atlantic right whale. *The Anatomical Record*, 290, 734-744.
- Parks, SE**, Tyack, PL (2005) Sound production by North Atlantic right whales (*Eubalaena glacialis*) in surface active groups. *Journal of the Acoustical Society of America*, 117(5), 3297-3306.
- Parks, SE**, Hamilton, PK, Kraus, SD, Tyack, PL (2005) The Gunshot sound produced by male North Atlantic right whales (*Eubalaena glacialis*) and its potential function in reproductive advertisement. *Marine Mammal Science*, 21(3), 458-475.
- Parks, SE** (2003) Response of North Atlantic right whales (*Eubalaena glacialis*) to playback of calls recorded from surface active groups in both the North and South Atlantic. *Marine Mammal Science*. 19(3), 563-580.

INVITED BOOK CHAPTERS

- Parks, SE**, Clark, CW (2007) Acoustic Communication: Social Sounds and the Potential Impacts of Noise. In: *The Urban Whale*. S. Kraus and R. Rolland eds., Harvard University Press. Pp 310-332.
- Clark, CW, Gillespie, D, and Nowacek, DP, **Parks, SE** (2007). Listening to their world: Acoustics for monitoring and protecting right whales in an urbanized ocean. In: *The Urban Whale*. S. Kraus and R. Rolland eds., Harvard University Press. Pp 333-357.

PRESENTATIONS

INVITED CONFERENCE PRESENTATIONS

- Parks, SE**, Nowacek, DP, Johnson, M, Tyack, PL. (2013) Conservation applications of baseline acoustic tag data from right whales (A). 166th Meeting of the Acoustical Society of America, San Francisco, CA, 2-6 December. Journal of the Acoustical Society of America, 134, 4042.
- Parks, SE**, Groch, K, Flores, PAC., Sousa-Lima, RS., Urazghildiiev, I. (2013) Variation in the vocal behavior of southern right whales (*Eubalaena australis*) in coastal Brazilian waters. International Congress of Acoustics, Montreal, Canada, 2-7 June. Proceedings of Meetings on Acoustics, 19, 010059.
- Parks, SE**, Johnson, M, Nowacek, D, Tyack, P. (2010) Changes in vocal behavior of individual North Atlantic right whales in increased noise(A). Joint 159th ASA Meeting and Noise-Con 2010, Baltimore, MD, 19-23 April 2010 Journal of the Acoustical Society of America, 127 1726.
- Parks, SE**, Clark, CW, Tyack, PL (2007) Long- and short-term changes in right whale acoustic behavior in increased low-frequency noise. International Conference on the Effects of Noise on Aquatic Life, Nyborg, Denmark.
- Parks, SE** Nowacek, DP, Johnson, MP, Tyack, PL. (2006) Right whales – Social Sound Production, 151st Meeting: Acoustical Society of America, Providence, RI, June 5-9, 2006. JASA. 119 3402.

INVITED SEMINARS

- 2014 University of Colorado at Boulder, Ecology & Evol. Biology, Boulder, CO
- 2014 Duke Marine Lab, Beaufort, NC
- 2014 University of Vermont, Department of Biology, Burlington, VT
- 2013 Syracuse University, Department of Biology, Syracuse, NY
- 2013 SUNY ESF, Adaptive Peaks Seminar Series
- 2012 Stony Brook University, SOMAS, Stony Brook, NY
- 2012 Penn State Wilkes-Barre, PSU Wilkes-Barre Honor's Program, Wilkes-Barre, PA
- 2010 Penn State, Wildlife and Fisheries Science Seminar Series, State College, PA
- 2009 Boston University, Biology Department, Boston, MA.
- 2007 Penn State, Ecology Seminar Series, State College, PA
- 2007 Penn State, Department of Wildlife and Fisheries Science, State College, PA
- 2007 Acoustic Communication in North Atlantic right whales. Centre d'Ecologie Fonctionnelle et Evolutive, Université Montpellier, France
- 2006 University of South Carolina, Marine Science Program, Columbia, SC
- 2006 NOAA Passive Acoustics Workshop, Woods Hole, MA
- 2005 The Pennsylvania State University, Applied Research Lab, State College, PA
- 2005 Stony Brook University, Marine Sciences Research Center, Stony Brook, NY
- 2004 Southampton College, Marine Science Department, Southampton, NY
- 2004 The Paleontological Research Institution, Ithaca, NY
- 2003 Cornell University, Neurobiology & Behavior Seminar, Ithaca, NY
- 2003 Eckerd College, Marine Science Department, St. Petersburg, FL
- 2003 WHOI, Biology Department, Woods Hole, MA
- 2001 Right Whale Acoustics conservation workshop, Woods Hole, MA

SELECTED NATIONAL & INTERNATIONAL CONFERENCE PRESENTATIONS

(of > 60 total), All talks by first author unless otherwise indicated at end of citation.

*- indicates lead author is student advisee

- Parks, SE**, Conger, L, Cusano, D, Van Parijs, S (2014) Variation in the acoustic behavior of right whale mother-calf pairs. 167th Meeting of the Acoustical Society of America, 5-9 May 2014, Providence, RI.
- Merchant, ND, **Parks, SE**, Van Parijs, SM, Wiley, DN, Thompson, MA, Friedlaender, AS (2014) Soundscapes and vocal behavior of humpback whales in Massachusetts Bay, 167th Meeting of the Acoustical Society of America, 5-9 May 2014, Providence, RI.
- *Matthews, LP, McCordic, JA, **Parks, SE**. (2014). Using passive acoustics to investigate seasonal and diel trends in acoustic behavior of North Atlantic right whales (*Eubalaena glacialis*). 167th Meeting of the Acoustical Society of America, 5-9 May 2014, Providence, RI.
- *Tennessen, JB, Van Parijs, SM., **Parks, SE**. (2013) Modeling the acoustic impacts of ship noise on the communication range of North Atlantic right whale mother-calf pairs. 20th Biennial conference on the Biology of Marine Mammals. Dunedin, New Zealand, 9-13 December.
- Parks, SE**, Urazghildiiev, I., Groch, K, Flores, P, Sousa-Lima, R. (2013) Detecting a changing signal: impacts of right whales modifying calling behaviour in response to environmental background noise conditions. 6th International Workshop on Detection, Classification, Localization & Density Estimation of Marine Mammals Using Passive Acoustics. 12-15 June, St. Andrews, Scotland.
- Parks, SE**, Groch, K, Flores, P, Sousa-Lima, R, Urazghildiiev, I. (2013) Changes in right whale calling behavior in shifting background noise conditions. 3rd International Meeting on the Effects of Noise on Aquatic Life, August 11-16, Budapest, Hungary.
- Parks, SE**, Groch, K, Flores, P, Sousa-Lima, R, Urazghildiiev, I. (2013) Variation in the vocal behavior of southern right whales (*Eubalaena australis*) in coastal Brazilian waters. 21st International Congress on Acoustics/165th Meeting of the Acoustical Society of America 2-7 June, Montreal, Canada, POMA 19, 010059.
- *Tennessen, J, **Parks, SE**, Snow, RW, Langkilde, TL. (2013) Impacts of acoustic competition between invasive Cuban treefrogs and native treefrogs in southern Florida. 21st International Congress on Acoustics/165th Meeting of the Acoustical Society of America 2-7 June, Montreal, Canada, POMA 19, 010057.
- *Hotchkin, CF, **Parks, SE**, Weiss, DJ (2013) Vocal modifications in primates: Effects of noise and behavioral context on vocalization structure. 21st International Congress on Acoustics/ 165th Meeting of the Acoustical Society of America 2-7 June, Montreal, Canada, POMA 19, 010061.
- *Tennessen, JB, **Parks, SE** and Langkilde, TL (2012), Breeding season blues: Noise disrupts female wood frog attraction to a male chorus. Ecological Society of America Meeting, August 5-10, 2013, Portland, Oregon. (Poster).
- Parks, SE**, Conger, L., Cusano, D., Mussoline, S., Van Parijs, S. (2012) Variation in the acoustic behavior of right whale mother-calf pairs. North Atlantic right whale consortium meeting, New Bedford, MA, November 13-14, 2012.
- *Hotchkin, CF., **Parks, SE**, Clark, CW. (2011) Source level and propagation of gunshot sounds produced by North Atlantic right whales (*Eubalanea glacialis*) in the Bay of Fundy

- during August 2004 and 2005. 19th Biennial conference on the Biology of Marine Mammals, Tampa, FL.
- *Tennesen, J.; **Parks, SE.** (2011) A propagation modeling approach to compare transmission loss of Odontocete and Mysticete communication signals in varying habitats. 19th Biennial conference on the Biology of Marine Mammals, Tampa, FL.
- *Tervo, OM, Christoffersen, MF, Frasier, TR, Ilmoni, CE, **Parks, SE,** Miller, LA Kristensen, RM. (2011) Bowhead whale songs sung by females in Disko Bay, Greenland. 19th Biennial conference on the Biology of Marine Mammals, Tampa, FL.
- Parks, SE;** Hotchkin, CF; Wiley,D; Weinrich, M; Bocconcelli, A. (2011) Behavioral differences of foraging North Atlantic right and humpback whales: implications for passive acoustic monitoring. 19th Biennial conference on the Biology of Marine Mammals, Tampa, FL.
- Rolland, RM; **Parks, SE;** Hunt, KE; Castellote, M; Corkeron, PJ; Wasser, SK; Kraus, SD. (2011) Evidence that Ship Noise Causes Chronic Stress in Right Whales. 19th Biennial conference on the Biology of Marine Mammals, Tampa, FL.
- Parks, SE,** Wiley, DN, Weinrich, MT, Bocconcelli, A (2010) Behavioral differences affect passive acoustic detectability of foraging North Atlantic right and humpback whales. 2nd Pan-American/Iberian Meeting on Acoustics, 160th meeting of the Acoustical Society of America, 15-19 November, 2010, Cancun, Mexico, JASA. 128, 2467.
- Lin, YT, Newhall, AE, **Parks, SE** (2010) Sound propagation modeling of right whale calls in Cape Cod Bay. 2nd Pan-American/Iberian Meeting on Acoustics, 160th meeting of the Acoustical Society of America, 15-19 November, 2010, Cancun, Mexico, JASA. 128, 2293.
- Parks, SE,** Johnson, M, Nowacek, D, Tyack, P (2010) Vocal behavior of North Atlantic right whales in increased noise. 2nd International Conference on the Effects of Noise on Aquatic Life, Cork, Ireland, 15-20 August 2010.
- *Palmer,K., Parks, SE, Wiley,D, Weinrich,M, Tackaberry,J, Bocconcelli, A, Friedlaender,A. (2010). Vocal behavior of North Atlantic humpback whales during reunion events on Stellwagen Bank (A). Joint 159th ASA Meeting and noise-Con 2010, Baltimore, MD, 19-23 April 2010, Journal of the Acoustical Society of America.127, 1894.
- *Hotchkin, CF, **Parks, SE,** Mahoney, BA.(2010) Anthropogenic noise and sound production by beluga whales (*Delphinapterus leucas*) in Cook Inlet, Alaska during early August 2007 (A). Joint 159th ASA Meeting and noise-Con 2010, Baltimore, MD, 19-23 April 2010. Journal of the Acoustical Society of America.
- *Grebner, DM, Bradley, DL, Capone, DE, **Parks, SE,** Miksis-Olds, JL, Ford, JKB. (2009) Killer whale discrete pulsed call variation. (A). 158th meeting of the Acoustical Society of America, San Antonio, TX 26-30 October, 2009 Journal of the Acoustical Society of America 126 2272.
- Miksis-Olds, JL, **Parks, SE,** Nystuen, JA. (2009) Understanding the relationship between marine mammals and their environment in the Bering Sea (A).158th meeting of the Acoustical Society of America, San Antonio, TX 26-30 October, 2009 Journal of the Acoustical Society of America 126 2271.
- Parks, SE,** Clark, CW, Johnson, M, Tyack, PL. (2009) Simultaneous acoustic tag and seafloor acoustic recorder detection of right whale calls in the Bay of Fundy. 157th Meeting: Acoustical Society of America, Portland, OR, May 18-22, 2009. Journal of the Acoustical Society of America 125 2617.

- Parks, SE**, Clark, CW, Johnson, M, Tyack, PL (2009) Simultaneous acoustic tag and seafloor acoustic recorder detection of right whale calls in the Bay of Fundy and Cape Cod Bay. North Atlantic Right whale Consortium Meeting 2009, New Bedford Whaling Museum, New Bedford, MA.
- Parks, SE**, Bocconcelli, A, Johnson, M., Nowacek, D, Tyack, PL. (2009) Evidence for changes in vocal behavior of individual North Atlantic right whales in response to increased noise. 18th Biennial conference on the Biology of Marine Mammals, Quebec, QC, Canada.
- Miksis-Olds, JL, Nystuen, JA., **Parks, SE**. (2009) Variation in marine mammal habitat soundscapes on the Bering Sea shelf. 18th Biennial conference on the Biology of Marine Mammals, Quebec, QC, Canada.
- *Tervo, OM, Christoffersen, MF; **Parks, SE**; Madsen, PT; Kristensen, RM (2009) Simultaneous dual frequency sound production in the bowhead whale *Balaena mysticetus*. 18th Biennial conference on the Biology of Marine Mammals, Quebec, QC, Canada.
- Miksis-Olds, JL, Nystuen, JA, **Parks, SE**. (2009). Extracting incidental signals from targeted soundbites. 4th International Workshop on Detection, Classification and Localization of Marine Mammals Using Passive Acoustics. Pavia, Italy.
- Nystuen, JA, Miksis-Olds, JL, **Parks, SE**. (2009). Probability of the detection of calling bouts by a low duty cycle passive acoustic recorder. 4th International Workshop on Detection, Classification and Localization of Marine Mammals Using Passive Acoustics. Pavia, Italy.
- Parks, SE**, Clark, CW, Johnson, M, Tyack, PL (2009) Simultaneous acoustic tag and seafloor acoustic recorder detection of right whale calls in the Bay of Fundy. 157th Meeting: Acoustical Society of America, Portland, OR.
- Parks, SE**, Hotchkin, CF, Clark, CW. (2008) Spatial distribution of right whale “gunshot” sound displays in the Bay of Fundy, Canada. 156th Meeting: Acoustical Society of America, Miami, FL.
- Parks, SE**, Hotchkin, CF, Clark, CW (2008) Spatial distribution of right whale “gunshot” sound displays in the Bay of Fundy, Canada. North Atlantic Right whale Consortium Meeting 2008, New Bedford Whaling Museum, New Bedford, MA.
- Parks, SE**, Urazghildiiev, I., Clark, CW (2008) Characterization of ambient noise levels and the acoustic behavior of right whales in three seasonal habitat areas. 2nd International Conference on Acoustic Communication by Animals, Corvallis, OR.
- *Grebner, DM, Bradley, DL, Capone, DE, **Parks, SE**, Miksis-Olds, JL. (2008) Localization of killer whale mother, juvenile, and calf vocalizations. 156th Meeting: Acoustical Society of America, Miami, F.L., Journal of the Acoustical Society of America 124 2507.
- Parks, SE**, Searby, A., Célérier, A., Johnson, M, Nowacek, D, Tyack, P. (2007) Calling behavior of tagged right whales (*Eubalaena glacialis*) in the Bay of Fundy, 1999-2005. Abstract. 17th Biennial conference on the Biology of Marine Mammals, Cape Town, South Africa.
- Parks, SE**, Clark, CW, Tyack, PL (2007) Evidence for a long-term change in the acoustic behavior of the North Atlantic right whale (*Eubalaena glacialis*) in response to noise. ICES/PICES Early Career Scientists International Conference New Frontiers in Marine Science, Baltimore, MD
- Lyons, A.P., **Parks, S.E.**, Weber, T.C. (2007) An experimental test of a model for scattered envelope statistics. 154th Meeting: Acoustical Society of America, New Orleans, LA, Journal of the Acoustical Society of America. 122 2975.

- Parks, SE, Clark, CW, Tyack, PL (2007)** Long- and short-term changes in right whale acoustic behavior in increased low-frequency noise. International Conference on the Effects of Noise on Aquatic Life, Nyborg, Denmark.
- Parks, SE, Johnson, M, Lange, W., Moore, M., Nowacek, D., Tyack, PL. (2007)** Right whale mother-calf acoustic communication in the Bay of Fundy, North Atlantic Right whale Consortium Meeting 2007, New Bedford Whaling Museum, New Bedford, MA.
- Parks, SE, Searby, A., Celerier, A., Nowacek, D., Tyack, P, Johnson, J. (2007)** Relevance of vocal behavior to passive acoustic monitoring and detection: insights from individual variability in calling behavior of right whales in the Bay of Fundy 1999-2005. 3rd International Workshop in the Detection and Classification of Marine Mammals using Passive Acoustics, Boston, MA.
- Parks, SE, Clark, CW, Cortopassi, KA, Ponirakis, D. (2006)** Seasonal ambient noise levels and impacts on communication in the North Atlantic right whale. Talk. 4th Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan, Honolulu, HI. Journal of the Acoustical Society of America. 120 3266
- Parks, SE, Clark, CW, Tyack, PL. (2006)** Acoustic communication in the North Atlantic right whale (*Eubalaena glacialis*) and potential impacts of noise. Honolulu, Hawaii, February 20-24, 2006. Eos Trans. AGU, 87(36), Ocean Sciences Meet. Suppl., Abstract OS53G-03.
- Parks, SE, Searby, A, Celerier, A, Nowacek, D., Tyack, PL Johnson, M (2006)** Calling behavior of right whales in the Bay of Fundy: DTAG data from 1999-2005. North Atlantic Right whale Consortium Meeting 2006, New Bedford Whaling Museum, New Bedford, MA.
- Parks, SE, Clark, CW, Tyack, PL (2006)** Acoustic communication in the North Atlantic right whale (*Eubalaena glacialis*) and potential impacts of noise. Eos Trans. AGU, 87(36), Ocean Sciences Meet. Suppl., Abstract OS53G-03.
- Parks, SE, Clark, CW, Tyack, PL (2005)** North Atlantic right whales shift their frequency of calling in response to vessel noise. 16th Biennial conference on the Biology of Marine Mammals, San Diego, CA.
- Parks, SE, Clark, CW (2005).** Variation in acoustic activity levels of North Atlantic right whales in three critical habitat areas. In North Atlantic Right whale Consortium Meeting 2005 abstracts. H. Pettis ed., New Bedford Whaling Museum, New Bedford, MA.
- Parks, SE, Clark, CW (2005)** Variation in acoustic activity of North Atlantic right whales in three critical habitat areas in 2004. Talk. 149th Meeting: Acoustical Society of America, Vancouver, B.C., May 16-May 20, 2005. Journal of the Acoustical Society of America. 117 2469.
- Parks, SE, Clark, CW (2004)** Impacts of vessel noise on right whale communication. Abstract. In North Atlantic Right whale Consortium Meeting 2004 abstracts. H. Pettis ed., New Bedford Whaling Museum, New Bedford, MA.
- Parks, SE, Ketten, DR, O'Malley, JT, Arruda, J. (2004)** Hearing in the North Atlantic right whale: Anatomical predictions. 75th Anniversary Meeting of the Acoustical Society of America, New York, NY.
- Parks, SE Hamilton, PK, Kraus, SD, Tyack, PL (2004)** The 'gunshot' sound produced by male North Atlantic right whales and its potential function in reproductive advertisement. 75th Anniversary Meeting of the Acoustical Society of America, New York, NY.

- Parks, SE**, Fristrup, KM, Kraus, SD, Tyack, PL (2003) Sound production by North Atlantic right whales in surface active groups. Abstract. 15th Biennial conference on the Biology of Marine Mammals, Greensboro, N.C.
- Parks, SE**, Ketten, DR., O'Malley, JT, Arruda, J. (2003) Hearing in the North Atlantic right whale: Anatomical predictions. Abstract. In North Atlantic Right whale Consortium meeting 2003 abstracts. M.Marx ed., New Bedford Whaling Museum, New Bedford, MA.
- Parks, S.** (2003) Response of North Atlantic right whales (*Eubalaena glacialis*) to playback of calls recorded from surface active groups in both the North and South Atlantic. Abstract. 17th Annual Conference of the European Cetacean Society, Las Palmas de Gran Canaria, Canary Islands, Spain.
- Parks, S.** (2002) Surface active groups: Group composition and acoustic characteristics. Abstract. In North Atlantic Right Whale Consortium Meeting 2002 Abstracts. M. Marx ed., New Bedford Whaling Museum, New Bedford, MA.
- Parks, SE**, Tyack, PL, Johnson, M, Nowacek, D. (2002) Documentation of North Atlantic right whale (*Eubalaena glacialis*) response to surface active group sounds using a digital acoustic tag. Abstract. Animal Behavior Society 2002 Meeting, Indiana University, Bloomington, I.N.
- Parks, S.** (2001) Playbacks of surface active group calls to North Atlantic right whales (*Eubalaena glacialis*). In North Atlantic Right Whale Consortium Meeting 2001 Abstracts. M.Marx ed., New England Aquarium, Boston.
- Parks, S**, Clark, C, Kraus, S, Tyack, P. (2001) Playbacks of surface active group vocalizations to the North Atlantic right whale (*Eubalaena glacialis*). Abstract. 14th Biennial conference on the Biology of Marine Mammals, Vancouver, B.C.
- Parks, S.**, Tyack, PL, Johnson, MA., Nowacek, D., Biassoni, N. (2001) Use of a digital acoustic tag to document response of the North Atlantic Right Whale to surface active groups. Abstract. 15th Annual Conference of the European Cetacean Society, Rome, Italy.
- Parks, S.** (2000) Characterization of Acoustic Advertisement in North Atlantic Right Whale. In North Atlantic Right Whale Consortium Meeting 2000 Abstracts. M. Marx ed., New England Aquarium, Boston.
- Parks, S.**, Tyack, PL, Kraus, S.D. (1999) Playbacks of surface active group vocalizations to North Atlantic right whales in the Bay of Fundy. 1999 North Atlantic Right Whale Consortium Meeting Abstracts. M. Marx ed., New England Aquarium, Boston.
- Parks, S.**, Tyack, PL, Nowacek, D., Johnson, M. (1999) Use of an archival recording tag to measure acoustic activity and behavior in North Atlantic right whales (*Eubalaena glacialis*). Abstract. 13th Biennial conference on the Biology of Marine Mammals, Wailea, Maui, Hawaii.

ACADEMIC AND PROFESSIONAL ASSOCIATIONS

Acoustical Society of America
 American Association for the Advancement of Science
 Animal Behavior Society
 North Atlantic Right Whale Consortium
 Sigma Xi Scientific Research Society
 Society for Marine Mammalogy

SERVICE

Advisory and Scientific Board Member, North Atlantic Right Whale Consortium (2008-present)
Chair, North Atlantic Right Whale Consortium (2013-2016)

Animal Bioacoustics Technical Committee, Acoustical Society of America (2008-present)

Scholarship and Awards Committee, Society for Marine Mammalogy (2007-2013)

Technical Program Organizational Meeting Representative, Acoustical Society of America 2009

Reviewer for the following journals: African Journal of Zoology, Animal Behaviour, Aquatic Mammals, Behaviour, Biology Letters, Conservation Biology, Endangered Species Research, Functional Ecology, Journal of the Acoustical Society of America, Marine Ecology Progress Series, Marine Mammal Science, Naturwissenschaften, Northeastern Naturalist, Polar Biology, Urban Ecosystems and the following funding agencies National Ocean Partnership Program (NSF/NOAA/ONR); National Science Foundation; Animal Behaviour Society.

Outreach activities: Provided whale sound samples for outreach and educational materials including children's books, Smithsonian Ocean Hall Sound Kiosk, Discovery of Sounds in the Sea Website, Cornell University Bioacoustics Website, National Public Radio science programming, Encyclopedia of Life and have given interviews for National Public Radio and Public Radio International.

MENTORING AND ADVISING

2013 - Hannah Blair, MS advisor, Syracuse University
2012- Leanna Matthews, PhD advisor, Syracuse University
2012 - Jessica McCordic, MS advisor, Syracuse University
2012 - Ashlei Tinsley, Undergraduate Research, Syracuse University
2012- Tricia Daniels, Undergraduate Research, Syracuse University
2012 - Janessa Bonti, Undergraduate Research, Syracuse University
2012- Brian Gress, PhD committee member, Syracuse University
2010 – Samuel Denes, PhD committee member, Penn State University, Acoustics
2009 - Jennifer Tennessen, PhD co-advisor, Penn State University, Ecology
2007- 2012 Cara Hotchkin, PhD advisor, Penn State University, Ecology
2011-2012 Kyla England, Undergraduate Research, Penn State
2011-2012 Josephine Juang, Undergraduate Women in Science and Engineering student,
2010-2011 Bethany Thomas, Undergraduate Research, Penn State
2007-2011 Outi Tervo, PhD external advisor, University of Copenhagen
2008-2011 Kaitlin Palmer, M. Eng. advisor, Penn State University, Acoustics
2004-2009 Dawn Grebner, PhD committee member, Penn State University, Acoustics
2008-2009 Melody Young, Undergraduate Minority Research Experience student, Penn State
2008-2009 Christine Olarte, Undergraduate Research Project, Penn State
2008-2009 Sarah Purosky, Undergraduate Research, Penn State
2004-2005 Rebekah Stalter, Undergraduate Research, Cornell University
2004-2005 Matthew Larson, Undergraduate Research, Cornell University

SELECTED MEDIA COVERAGE OF RESEARCH

Nature World News - “ Endangered Right Whale Breeding Ground Amid Shipping Lane Surveyed With Acoustic Monitoring Devices” March 26, 2014.

Science Magazine – “[Eavesdropping on Ecosystems](#)” by Kelly Servick, February 21, 2014
Science Daily – “[Research reveals bottom feeding techniques of humpback whales in Stellwagen Bank Sanctuary](#)” NOAA. September 26, 2013
Associated Press (ABC News, MSNBC, Wall Street Journal, etc.)- “[Unplanned 9/11 analysis links noise, whale stress](#)” by Jay Lindsay, February 8, 2012.
Science Magazine – ScienceNOW “[Shhh... Ocean noises stress out whales](#)” by Helen Fields. February 7, 2012.
Science Magazine -ScienceNOW “[Right whale roadkill](#)” by Helen Fields. August 2, 2011.
Discovery News “[Endangered whales dine at dangerous depths](#)” by Jessica Marshall. August 3, 2011.
Public Radio International, Living on Earth “[The noisy ocean and its consequences](#)” by Ike Sriskandarajah. February 4, 2011.
New Scientist “[Right whales yell over the ocean din](#)”, by Michael Marshall, July 7, 2010
Discovery News “[Whales scream over noise pollution](#)”, by Jennifer Viegas, July 6, 2010
MSNBC, “[Say what?! Whales shout over noise pollution](#)”, July 7, 2010
Science Magazine “[A push for quieter ships](#)”, by David Malakoff. June 18, 2010
LiveScience, “[Mystery ‘Gunshot’ Sounds Are Whale Threats](#)”, by Clara Moskowitz, November 6, 2008.
Encyclopedia of Life “[North Atlantic Right Whale](#)”, by Ari Shapiro, December, 2009
Scientific American “[\(Don’t\) Pump up the Volume](#)”, by Brendan Borrell, November 18, 2008