

Curriculum Vitae

SUSAN E. PARKS

Curriculum vitae

March 2018

Department of Biology

Syracuse University

Syracuse, NY 13244

(315) 443-4672; sparks@syr.edu

EDUCATION

- 2003 **Ph.D.**, Biological Oceanography, Massachusetts Institute of Technology & Woods Hole Oceanographic Institution
- 1998 **B.A.**, Biology (Neurobiology & Behavior concentration), Cornell University, *cum laude*

PROFESSIONAL APPOINTMENTS

- 2017 – present **Associate Professor of Biology**, Syracuse University
- 2012 - 2017 **Assistant Professor of Biology**, Syracuse University
- 2011 **Senior Research Associate/Associate Professor**, Pennsylvania State University
- 2006 - 2011 **Research Associate**, Pennsylvania State University
- 2007 - 2011 **Assistant Professor**, Graduate Faculty, Ecology Graduate Program & Graduate Program in Acoustics, Pennsylvania State University
- 2003-2006 **Postdoctoral Research Associate**, Cornell University
- 2003 **Postdoctoral Investigator**, Woods Hole Oceanographic Institution
- 1998-2003 **Graduate Research Assistant**, Woods Hole Oceanographic Institution
- 1997-1998 **Undergraduate Honors Thesis Research**, Cornell University

HONORS AND AWARDS

- 2010 **Kavli Frontiers Fellow**, National Academy of Science
- 2009 **U.S. Presidential Early Career Award for Scientists & Engineers (PECASE)**
- 2008 **Office of Naval Research Young Investigator Award (YIP)**
- 2007 **Invited Participant in ICES/PICES Conference for Early Career Scientists**
- 2005 **Invited Participant in 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**

RESEARCH GRANTS & CONTRACTS

- 2017- 2020 **Office of Naval Research** “Can suction cup tags give multi-day attachments for behavioral response studies” (PI- K. A. Shorter (University of Michigan), Co-PI – S. Parks).
- 2017- 2020 **New York State Department of Conservation** “New York Bight Whale Monitoring – Passive Acoustic Survey” (PI – A. Rice (Cornell University; Co-PI – S. Parks).
- 2017-2020 **Marine Mammal Commission** “Southern right whales as a model system to investigate the vocal behavior of North Atlantic right whale mother-calf pairs”. (PI-S. Parks, Co-PI K. Groch)
- 2017-2018 **Office of Naval Research:** “SeaBASS: A marine bioacoustics summer school” (PI- J. Miksis-Olds; Co-PI –S. Parks).
- 2016- 2018 **Living Marine Resources:** “Extended duration acoustic tagging of right whales” (PI – S. Parks; Co-PI – D. Nowacek).
- 2016-2017 **Office of Naval Research:** “SeaBASS: A marine bioacoustics summer school” (PI- J. Miksis-Olds; Co-PI –S. Parks).
- 2015-2017 **National Park Service/Department of the Interior:** NPF Partnership to study the effects of vessel traffic on marine mammal vocalizations in Glacier Bay (Lead PI – C. Gabriel, NPS; Co-PIs – S. Parks & H. Klinck)
- 2015-2017 **Marine Mammal Commission:** The Impacts of Noise on the Reproductive Advertisement of an Aquatically Breeding Pinniped (Lead PI – S. Parks, named Ph.D. student, L. Matthews).
- 2013-2018 **Naval Facilities Engineering Command Atlantic Environmental Monitoring:** “Tagging and tracking of endangered North Atlantic right whales in Florida waters”, (Lead PI- D. Nowacek, Co-PIs – S. Parks, and A. Read).
- 2013-2016 **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).
- 2011-2012 **Office of Naval Research:** “SeaBASS: A marine bioacoustics summer school” (Co-PIs J. Miksis-Olds and S. Parks).

- 2010-2016 **Office of Naval Research:** “Presidential Early Career Award: Vocal behavior of North Atlantic right whale (*Eubalaena glacialis*) mother calf pairs”, (Lead PI-S. Parks, Co-PI; S. Van Parijs).
- 2010-2011 **New England Aquarium:** “Potential effects of acoustic disturbance in North Atlantic right whales (*Eubalaena glacialis*) (PI - S. Parks).
- 2009-2010 **Office of Naval Research / Penn State Applied Research Lab :** “SeaBASS: A marine bioacoustics summer school” (Co-PIs J. Miksis-Olds and S. Parks).
- 2008-2011 **Office of Naval Research:** “Young Investigator Award: Assessment of acoustic adaptations for noise compensation in marine mammals” (PI - S. Parks).
- 2008-2010 **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 PI - S. Parks, Co-PI D. Wiley).
- 2008-2010 **Office of Naval Research** “Cumulative and synergistic effects of physical, biological, and acoustic signals on marine mammal habitat use” (PI- J. Miksis-Olds, Parks - Senior Personnel on grant).
- 2008-2009 **Small Business Innovation Research Subcontract:** “Whale behavior analysis for application to marine mammal mitigation system design” (Co-PIs- S. Parks and M. Hastings).
- 2004-2007 **National Oceanic and Atmospheric Administration:** “Functional hearing test of North Atlantic right whales in the field.” (PI – P. Tyack, Parks - Co-Investigator).
- 2004-2006 **National Oceanic and Atmospheric Administration:** “Impacts of Vessel Noise on North Atlantic Right Whale Social Communication” (PI – P. Tyack, Parks - Co-Investigator).

PUBLICATIONS

Refereed Journals

*- indicates author is a graduate advisee; ** - indicates author is postdoctoral advisee; ***- indicates author is undergraduate advisee.

Root-Gutteridge, H., Cusano, D.A., Shiu, Y., Nowacek, D.P., Van Parijs, S.M., **Parks, S.E. (2018). A lifetime of changing calls: North Atlantic right whales, *Eubalaena glacialis*, refine call production as they age. *Animal Behaviour*, 137, 21-34.

Davis,G.E., Baumgartner, M.F., Bonnell, J.M., Bell, J., Berchok,C. , Bort-Thornton, J., Brault,S., Buchanan, G., Charif,R.A., Cholewiak, D., Clark, C.W., Corkeron,P., Delarue,J., Dudzinski,K., Hatch,L., Hildebrand, J., Hodge,G., Klinck,H., Kraus,S., Martin,B.,

- Mellinger, D.K., Moors-Murphy, H., Nieuwkerk, S., Nowacek, D.P., **Parks, S.E.**, Read, A.J., Rice, A.N., Risch, D., Širović, A., Soldevilla, M., Stafford, K., Stanistreet, J.E., Summers, E., Todd, S., Warde, A., Van Parijs, S.M. (2017). Long-term passive acoustic recordings track the changing distribution of North Atlantic right whales (*Eubalaena glacialis*) from 2004 to 2014. *Scientific Reports* 7(1), 13460.
- ***Petraccione, J., **Root-Gutteridge, H., Cusano, D., **Parks, S.E.** (2017). Exploring the early social affiliations and behaviour of a captive Asian elephant (*Elephas maximus*) calf. *Journal of Zoo and Aquarium Research*. 5(3), 131-136.
- Zhang, S., Vempaty, A., **Parks, S.E.**, Varshney, P.K. (2017). On classification of environmental acoustic data using crowds. *Acoustics, Speech and Signal Processing (ICASSP), 2017 IEEE International Conference*, 5880-5884.
- *Matthews, L.P., Gabriele, C.M., **Parks, S.E.** (2017). The Role of Season, Tide, and Diel Period in the Presence of Harbor Seal (*Phoca vitulina*) Breeding Vocalizations in Glacier Bay National Park and Preserve, Alaska. *Aquatic Mammals*. 43(5), 537-546.
- Risch, D., & **Parks, S. E.** (2017). Biodiversity Assessment and Environmental Monitoring in Freshwater and Marine Biomes using Ecoacoustics. Farina, A. and Gage, S. eds., *Ecoacoustics: The Ecological Role of Sounds*, Wiley, p 145-168.
- ***Hunsinger, E., **Root-Gutteridge, H., Cusano, D. A., & **Parks, S. E.** (2017). A description of defensive hiss types in the flat horned hissing cockroach (*Aeluropoda insignis*). *Bioacoustics*, 1-11.
- *Matthews, L.P., **Parks, S.E.**, Fournet, M.E.H, Gabriele, C.M., Womble, J.N., Klinck, H. (2017) Source levels and call parameters of harbor seal breeding vocalizations near a terrestrial haulout site in Glacier Bay National Park and Preserve. *The Journal of the Acoustical Society of America Express Letters*, 141(3), EL274-EL280.
- *Dombroski, J. R. G., **Parks, S. E.**, Groch, K. R., Flores, P. A. C., and Sousa-Lima, R. S. (2017). Upcall production by southern right whale (*Eubalaena australis*) mother-calf pairs may be independent of diel period in a nursery area. *Marine Mammal Science*.
- *Dombroski, J. R. G., **Parks, E. S.**, Groch, K. R., Flores, P. A. C., and Sousa-Lima, R. S. (2016). Vocalizations produced by southern right whale (*Eubalaena australis*) mother-calf pairs in a calving ground off Brazil. *The Journal of the Acoustical Society of America* 140, 1850-1857.
- Parks, S. E.**, Cusano, D. A., Bocconcelli, A., Friedlaender, A. S., & Wiley, D. N. (2016). Noise impacts on social sound production by foraging humpback whales. In *Proceedings of Meetings on Acoustics 4ENAL* (Vol. 27, No. 1, p. 010009). ASA.
- *Blair, H., **Merchant, N., Friedlaender, A., Wiley, D.N., **Parks, S.E.** (2016) Evidence for ship noise impacts on humpback whale foraging behavior. *Biology Letters*. 12(8). 20160005.

- * Tennessen, J. B., & **Parks, S. E.** (2016). Acoustic propagation modeling indicates vocal compensation in noise improves communication range for North Atlantic right whales. *Endangered Species Research*, 30, 225-237.
- Cusano, D. A., *Matthews, L. P., ***Grapstein, E., & **Parks, S. E.** (2016). Effects of Increasing Temperature on Acoustic Advertisement in the Tettigoniidae. *Journal of Orthoptera Research*, 25(1), 39-47.
- *Webster, T. A., Dawson, S. M., Rayment, W. J., **Parks, S. E.**, & Van Parijs, S. M. (2016). Quantitative analysis of the acoustic repertoire of southern right whales in New Zealand. *The Journal of the Acoustical Society of America*, 140(1), 322-333.
- * McCordic, J.A., Root-Gutteridge, H., Cusano, D.A., Denes, S.L., **Parks, S.E.** (2016) Calls of North Atlantic right whales *Eubalaena glacialis* contain information on individual identity and age class. *Endangered Species Research*, 30: 157-169. doi: 10.3354/esr00735
- *Tennessen, J.B., **Parks, S.E.**, Tennessen, T.P., Langkilde, T.L. (2016) Raising a racket: invasive species compete acoustically with native treefrogs. *Animal Behaviour*, 114: 53-61.
- *Tennessen, J.B., **Parks, S.E.**, Langkilde, T.L. (2016) Anthropogenic noise and physiological stress in wildlife. In: *The Effects of Noise on Aquatic Life II, Advances in Experimental Medicine and Biology 875*, Popper, A.N., Hawkins, A. eds., Springer, 1145-1148.
- Parks, S.E.**, Groch, K., Flores, P., Sousa-Lima, R., Urazghildiiev, I. (2016) Humans, fish, and whales: How right whales modify calling behavior in response to shifting background noise conditions. In: *The Effects of Noise on Aquatic Life II, Advances in Experimental Medicine and Biology 875*, Popper, A.N., Hawkins, A. eds., Springer, 809-813.
- **Merchant, N.D., Fristrup, K.M., Johnson, M.P., Tyack, P.L., Witt, M.J., Blondel, P., **Parks, S.E.** (2015) Measuring acoustic habitats. *Methods in Ecology and Evolution*, 6: 257–265.
- *Hotchkin, C.F., **Parks, S.E.**, Weiss, D.J. (2015) Noise-Induced Frequency Modifications of Tamarin Vocalizations: Implications for Noise Compensation in Nonhuman Primates. *PLoS ONE* 10(6): e0130211.
- Weiss, D.J., *Hotchkin, C.F., **Parks, S.E.** (2014) Modification of spectral features by nonhuman primates. *Behavioral and Brain Science* 37(6): 574-576.
- Parks, S.E.**, Cusano, D.A., Stimpert, A.K., Weinrich, M.T., Friedlaender, A.S., Wiley, D.N. (2014) Evidence for acoustic communication among bottom foraging humpback whales. *Scientific Reports* 4: 7508.

- *Tennessen, J.B., **Parks, S.E.**, Langkilde, T. (2014) Traffic noise causes physiological stress and impairs breeding migration behaviour in frogs. *Conservation Physiology* 2(1): cou032.
- *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.
- 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.
- *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.
- *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.
- 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*. 279, 2363-2368.
- 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.

- 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, D.M., **Parks, S.E.**, Bradley, D.L., Miksis-Olds, J.L., Capone, D.E., Ford, J.K. (2011) Divergence of a stereotyped call in northern resident killer whales. *Journal of the Acoustical Society of America*, 129(2), 1067-1072.
- Stimpert, A.K., Au, W.W.L., **Parks S.E.**, 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.
- *Tervo, O.M., **Parks, S.E.**, Chistoffersen, M.F., Miller, L.A., Kristensen, R.M. (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. 27(3), E241-E252.
- Parks, S.E.**, Johnson, M., Nowacek, D., Tyack P.L. (2011) Individual right whales call louder in increased environmental noise. *Biology Letters*. 7:33-35.
- Tervo, O. M., Christoffersen, M. F., **Parks, S. E.**, Kristensen, R. M., & Madsen, P. T. (2011). Evidence for simultaneous sound production in the bowhead whale (*Balaena mysticetus*). *The Journal of the Acoustical Society of America*, 130(4), 2257-2262.
- Miksis-Olds, J.L., Nystuen, J.A., **Parks, S.E.** (2010) Detecting marine mammals with an adaptive sub-sampling recorder in the Bering Sea. *Applied Acoustics*. Volume 71, Issue 11, 1087-1092.
- Van Parijs, S.M., Clark, C.W., Sousa-Lima, R.S., **Parks, S.E.**, Rankin, S., Risch, D., Van Opzeeland, I.C. (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, O.M., **Parks, S.E.**, Miller, L.E. (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, C.W., Krein, T., **Parks, S.E.**, (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, S.E.**, Urazghildiiev, I., Clark, C.W. (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, S.E.**, Clark, C.W. (2008) Acoustic Communication in Mysticetes. *Bioacoustics*, 17, 45-47.
- Parks, S.E.**, Clark, C.W., Tyack, P.L. (2008) Long- and Short-term changes in right whale acoustic behaviour in increased low-frequency noise. *Bioacoustics*, 17, 179-180.
- Parks, S.E.**, Clark, C.W., Tyack, P.L. (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, S.E.**, Brown, M.B., Conger, L., Hamilton, P.K., Knowlton, A.R., Kraus, S.D., Slay, C., Tyack, P.L. (2007) Occurrence and composition of surface active groups in North Atlantic right whales (*Eubalaena glacialis*). *Marine Mammal Science*. 23(4), 868-887.
- Parks, S.E.**, Ketten, D.R., O'Malley, J.T., Arruda, J. (2007) Anatomical predictions of hearing in the North Atlantic right whale. *The Anatomical Record*, 290, 734-744.
- Parks, S.E.**, Tyack, P.L. (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, S.E.**, Hamilton, P.K., Kraus, S.D., Tyack, P.L. (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, S.E.** (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, S.E.**, Van Parijs, S.J. (*In press*) Calling behaviour in mysticetes: singing isn't everything. In *Acoustic communication in cetaceans*. V. Janik & L. Sayigh eds. Publication 2017.
- Parks, S.E.**, Clark, C.W. (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, C.W., Gillespie, D., and Nowacek, D.P., **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 Seminars

2016 St. Andrews University, Scottish Oceans Institute, St. Andrews, Scotland
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 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 Woods Hole Oceanographic Inst., Biology Department, Woods Hole, MA
2001 Right Whale Acoustics conservation workshop, Woods Hole, MA

Invited Conference Presentations

Parks, S.E. (2017) Factors shaping signal production in baleen whale communication. Invited talk, 4th International Symposium on Acoustic Communication by Animals. July 17-21, 2017, Omaha, NE.

Risch, D., & **Parks, S.** (2017). Overview: Ecoacoustics for monitoring freshwater and marine biodiversity. 173rd Meeting of the Acoustical Society of America and 3rd Joint Meeting of the Acoustical Society of America and the European Acoustics Association, 25-29 June, 2017, Boston, MA. (Presented by S. Parks).

Parks, S.E. (2015) The impacts of noise on the calling behavior of right whales. Invited talk at the Watkins Memorial Marine Mammal Bioacoustics Symposium. March 27 -29, 2015, New Bedford, MA.

- Parks, S.E.,** Denes, S., Fristrup, K., Varshney, P. (2015) Ecological insights form bioacoustics activity levels measured from long-term acoustic monitoring at NEON observatory sites. Invited talk at the International Bioacoustics Congress, September 7 – 11, 2015, Murnau, Germany.
- Parks, S.E.,** Rice, A., Van Parijs, S.J. (2015) Ecological insights from marine acoustic monitoring: Integrating individual behavior, population ecology, and conservation efforts in the North Atlantic right whale. Ecological Society of America, August 9-14, 2015, Baltimore, MD.
- Parks, S.E.,** Nowacek, D.P., Johnson, M., Tyack, P.L. (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, S.E.,** Groch, K., Flores, P.A.C., Sousa-Lima, R.S., 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, S.E.,** 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, S.E.,** Clark, C.W., Tyack, P.L. (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, S.E.,** Nowacek, D.P., Johnson, M.P., Tyack, P.L. (2006) Right whales – Social Sound Production, 151st Meeting: Acoustical Society of America, Providence, RI, June 5-9, 2006. JASA. 119 3402.

National & International Conference Presentations

All presentations are talks, presented by first author unless otherwise indicated at end of citation. *- indicates lead author is a graduate student advisee; **- indicates lead author is a postdoctoral advisee.

- Parks, S.E.,** Cusano, D., Van Parijs, S., Nowacek, D.P. (2017). Acoustic communication of North Atlantic right whale (*Eubalaena glacialis*) mother-calf pairs on the calving grounds. 22nd Biennial Conference on the Biology of Marine Mammals. October 22-27, 2017, Halifax, Nova Scotia, Canada.

*Dombroski, J., **Parks, S.E.,** Nowacek, D.P. (2017). Out of sight: How much time do North Atlantic right whales spend within the detection range of visual surveys? 22nd Biennial

Conference on the Biology of Marine Mammals. October 22-27, 2017, Halifax, Nova Scotia, Canada. (poster).

- *Swider, C. R., **Parks, S.E.**, Lomolino, M. V. (2017). Variation in dawn chorus acoustic complexity across a global latitudinal gradient. *The Journal of the Acoustical Society of America*. 141, 3941. 173rd Meeting of the Acoustical Society of America and 3rd Joint Meeting of the Acoustical Society of America and the European Acoustics Association, 25-29 June, 2017, Boston, MA (poster).
- *Dombroski, J. R., **Parks, S.E.**, Groch, K. R., Flores, P. A., Sousa-Lima, R. S. (2017). Listening for right whales off Brazil: Present knowledge and future research. *The Journal of the Acoustical Society of America*, 141(5), 3940. 173rd Meeting of the Acoustical Society of America and 3rd Joint Meeting of the Acoustical Society of America and the European Acoustics Association, 25-29 June, 2017, Boston, MA (poster).
- Parks, S.E.**, Read, A. J., Nowacek, D. P. (2017). Acoustic environment of North Atlantic right whales in the Southeastern United States. *The Journal of the Acoustical Society of America*, 141(5), 3942. 173rd Meeting of the Acoustical Society of America and 3rd Joint Meeting of the Acoustical Society of America and the European Acoustics Association, 25-29 June, 2017, Boston, MA. (poster).
- Zhang, S., Vempaty, A., **Parks, S. E.**, & Varshney, P. K. (2017, March). On classification of environmental acoustic data using crowds. In *Acoustics, Speech and Signal Processing (ICASSP), 2017 IEEE International Conference* (pp. 5880-5884). IEEE.
- Parks, S.E.**, Cusano, D.A., Bocconcelli, A., Friedlaender A.S., Wiley, D.N. (2016) Noise Impacts on Social Sound Production by Foraging Humpback Whales. Effects of Noise on Aquatic Life IV, July 9-14, 2016, Dublin, Ireland.
- *Matthews, L. P., Womble, J., Gabriele, C., Klinck, H., & **Parks, S.E.** (2016). Source levels of harbor seal underwater reproductive advertisement displays. *The Journal of the Acoustical Society of America*, 140(4), 3301. 172nd Meeting of the Acoustical Society of America. Nov 28, 2016 to Dec 02, 2016, Honolulu, HI. (poster).
- Parks, S.E.**, Root-Gutteridge, H., Cusano, D., Conger, L., Van Parijs, S. (2015) Insights into the ontogeny of acoustic communication of North Atlantic right whales. Society of Marine Mammalogy Biennial Conference, December 14-18, 2015, San Francisco, CA.
- **Root-Gutteridge, H., McCordic, J., **Parks, S.E.** (2015) Upcalls of the North Atlantic right whale (*Eubalaena glacialis*) contain individually distinctive characteristics. Society for Marine Mammalogy Biennial Conference, 14-18 December 2015, San Francisco, USA.
- *Matthews, L.P., Gabriele, C., **Parks, S.E.** (2015) The effects of vessel passages on the vocal behavior of an aquatically breeding pinniped, the harbor seal (*Phoca vitulina*). Society of Marine Mammalogy Biennial Conference, December 14-18, 2015, San Francisco, CA.

- **Root-Gutteridge, H., Parks, S.E., Van Parijs, S.J., Cusano, D. (2015)** Exploring the vocal ontogeny of the North Atlantic right whale (*Eubalaena glacialis*). North Atlantic Right Whale Consortium Annual Meeting, 4-5 November 2015, New Bedford, USA.
- **Root-Gutteridge, H., Parks, S.E., Van Parijs, S.J., Cusano, D. (2015)** Exploring the vocal ontogeny of the North Atlantic right whale (*Eubalaena glacialis*). Behaviour Conference 9-14 August 2015, Cairns, Australia.
- *McCordic, J. A., & Parks, S. E. (2015).** Individually distinctive parameters in the upcall of the North Atlantic right whale (*Eubalaena glacialis*). *The Journal of the Acoustical Society of America*, 137(4), 2196-2196. 169th Meeting of the Acoustical Society of America, 18-22 May, 2015, Pittsburgh, PA.
- **Root-Gutteridge, H., Cusano, D., Conger, L., Van Parijs, S., & Parks, S. (2015)** Exploring the vocal ontogeny of North Atlantic right whales. *The Journal of the Acoustical Society of America*, 137(4), 2196-2196. 169th Meeting of the Acoustical Society of America, 18-22 May, 2015, Pittsburgh, PA.
- **Denes, S. L., Parks, S. E., Matthews, L., Blair, H., Varshney, P., & Fristrup, K. (2015)** Continental scale acoustic monitoring program: One year of data. *The Journal of the Acoustical Society of America*, 137(4), 2220-2220. 169th Meeting of the Acoustical Society of America, 18-22 May, 2015, Pittsburgh, PA.
- *McCordic, J., Parks, S.E. (2014)** The upcall: a candidate for acoustic individual distinctiveness in the North Atlantic right whale. 2014 North Atlantic Right Whale Consortium meeting, New Bedford, MA, 5-6 November 2014. *best student talk award*.
- Warren, J., Parks, S.E. (2014)** Right whale feeding behavior provides information about their prey detection capabilities (and method?). 2014 North Atlantic Right Whale Consortium meeting, New Bedford, MA, 5-6 November 2014.
- *Blair, H.B., Parks, S.E, Cusano, D.A., Merchant, N.D., Friedlaender, A.S., Weinrich, M.T., Wiley, D.N. (2014)** Effects of anthropogenic noise on North Atlantic humpback whale nighttime foraging behavior. Animal Behaviour Society 2014 Conference, Princeton, NJ, August 10-13, 2014. (Poster)
- Cusano, D., Parks, S.E., Conger, L., Van Parijs, S. (2014)** The role of behavioral ecology and acoustics in the conservation of right whale mother-calf pairs. Animal Behaviour Society 2014 Conference, Princeton, NJ, August 10-13, 2014. (Poster)
- Parks, S.E., Blair, H.B., Merchant, N.D., Fristrup, K.M., Varshney, P.K. (2014)** Long-term acoustic monitoring to assess anthropogenic impacts on acoustic behavioral ecology. Animal Behaviour Society 2014 Conference, Princeton, NJ, August 10-13, 2014. (Poster)

- **Merchant, N., Parks, S.E., Rice, A. (2014)** Acoustic diversity indices in marine ecosystems: long-term patterns, spatial considerations, and abiotic influence. Ecology and acoustics: emergent properties from community to landscape, Paris, France, 16-18 June 2014.
- Parks, S.E., 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, N.D., Parks, S.E., Van Parijs, S.M., Wiley, D.N., Thompson, M.A., Friedlaender, A.S. (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, L.P., McCordic, J.A., Parks, S.E. (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.
- Parks, S.E., Cusano, D., Stimpert, A, Friedlaender, A., Weinrich, M., Wiley, D. (2014)** Ready, set go: Evidence for acoustic coordination of bottom feeding by humpback whales in low light conditions using archival acoustic tag technology. ASLO/AGU Ocean Sciences Meeting, Honolulu, HI, 23-28 February, 2014.
- *Tennessen, J.B., Van Parijs, S.M., Parks, S.E. (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, S.E., 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, S.E., 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, S.E., 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, S.E., Snow, R.W., Langkilde, T.L. (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, C.F., **Parks, S.E.**, Weiss, D.J. (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, J.B., **Parks, S.E.**, Langkilde, T.L. (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, S.E.**, 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, C.F., **Parks, S.E.**, Clark, C.W. (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.
- *Tennessen, J.; **Parks, S.E.** (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, O.M., Christoffersen, M.F., Frasier, T.R., Ilmoni, C.E., **Parks, S.E.**, Miller, L.A. Kristensen, R.M. (2011) Bowhead whale songs sung by females in Disko Bay, Greenland. 19th Biennial conference on the Biology of Marine Mammals, Tampa, FL.
- Parks, S.E.**; Hotchkin, C.F.; 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, R.M.; **Parks, S.E.**; Hunt, K.E.; Castellote, M.; Corkeron, P.J.; Wasser, S.K.; Kraus, S.D. (2011) Evidence that Ship Noise Causes Chronic Stress in Right Whales. 19th Biennial conference on the Biology of Marine Mammals, Tampa, FL.
- Parks, S.E.**, Wiley, D.N., Weinrich, M.T., 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, Y.T., Newhall, A.E., **Parks, S.E.** (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, S.E.**, 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, S.E., 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, C.F., **Parks, S.E.**, Mahoney, B.A. (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, D.M., Bradley, D.L., Capone, D.E., **Parks, S.E.**, Miksis-Olds, J.L., Ford, J.K.B. (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, J.L., **Parks, S.E.**, Nystuen, J.A. (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, S.E.**, Clark, C.W., Johnson, M., Tyack, P.L. (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, S.E.**, Clark, C.W., Johnson, M., Tyack, P.L. (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, S.E.**, Bocconcelli, A., Johnson, M., Nowacek, D., Tyack, P.L. (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, J.L., Nystuen, J.A., **Parks, S.E.** (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, O.M., Christoffersen, M.F.; **Parks, S.E.**; Madsen, P.T.; Kristensen, R.M. (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, J.L., Nystuen, J.A., **Parks, S.E.** (2009). Extracting incidental signals from targeted soundbites. 4th International Workshop on Detection, Classification and Localization of Marine Mammals Using Passive Acoustics. Pavia, Italy.
- Nystuen, J.A., Miksis-Olds, J.L., **Parks, S.E.** (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, S.E.**, Clark, C.W., Johnson, M., Tyack, P.L. (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, S.E.**, Hotchkin, C.F., Clark, C.W. (2008) Spatial distribution of right whale “gunshot” sound displays in the Bay of Fundy, Canada. 156th Meeting: Acoustical Society of America, Miami, FL.
- Parks, S.E.**, Hotchkin, C.F., Clark, C.W. (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, S.E.**, Urazghildiiev, I., Clark, C.W. (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, D.M., Bradley, D.L., Capone, D.E., **Parks, S.E.**, Miksis-Olds, J.L. (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, S.E.**, 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, S.E.**, Clark, C.W., Tyack, P.L. (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, S.E., Clark, C.W., Tyack, P.L.** (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, S.E., 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, S.E., 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, S.E., Clark, C.W., Cortopassi, K.A., 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, S.E., Clark, C.W., Tyack, P.L.** (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, S.E., Searby, A., Celerier, A., Nowacek, D., Tyack, P.L., 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, S.E., Clark, C.W., Tyack, P.L.** (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, S.E., Clark, C.W., Tyack, P.L.** (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, S.E., Clark, C.W.** (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, S.E., Clark, C.W.** (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, S.E., Clark, C.W. (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, S.E., Ketten, D.R., O'Malley, J.T., 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, S.E., Hamilton, P.K., Kraus, S.D., Tyack, P.L. (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, S.E., 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, S.E., 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, S.E., Tyack, P.L., 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. *Best student talk.*

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, P.L., 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, P.L., 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.

TEACHING

2012- present **Course Development & Instructor** – Bio 458/658 Animal Communication, Bio 106 Ocean Life –Syracuse University; Bio 400 Biology of Marine Mammals
2012- present **Mentor** - Undergraduate Independent Research, Syracuse University
2015 **Guest lecturer** - Mammalogy, SUNY ESF
2010-2016 **Co-organizer & Presenter** for SeaBASS (International Graduate Bioacoustics Summer School Program offered every other year: 2010, 2012, 2014, 2016,2018)
2008-2011 **Lecturer** – Graduate course in Advances in Ecology, Penn State
2008 **Instructor** – Graduate course in field measurements in acoustics, Penn State
2007-2011 **Course Development & Instructor** – Graduate course in Marine Bioacoustics, Acoustics Graduate Program, Penn State
2007-2011 **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

MENTORING AND ADVISING

Postdoctoral Mentor:

2014-2017 Holly Root-Gutteridge, Syracuse University
2014-2015 Samuel Denes, Syracuse University
2013-2014 Nathan Merchant, Syracuse University

Primary Graduate Advisor:

2017- present Julia Dombroski, Ph.D. advisor, Syracuse University

2016-present Colin Swider, Ph.D. advisor, Syracuse University
2015-present Elizabeth McDonald, M.S. advisor, Syracuse University
2012- 2017 Leanna Matthews, Ph.D. advisor, Syracuse University
2013-2015 Hannah Blair, M.S. advisor, Syracuse University
2012-2015 Jessica McCordic, M.S. advisor, Syracuse University
2008-2011 Kaitlin Palmer, M. Eng. advisor, Penn State University, Acoustics
2007-2012 Cara Hotchkin, Ph.D. advisor, Penn State University, Ecology

Co-Graduate Advisor:

2009-2015 Jennifer Tennessen, Ph.D. co-advisor with T. Langkilde, Penn State University, Ecology
2007-2011 Outi Tervo, Ph.D. external co-advisor with R. Kristensen, University of Copenhagen

Graduate Committee Member:

2018- present Elena Schall, Ph.D. committee member, Alfred Wegener Institute
2017- present Abbi Aljiboury, Ph.D. committee member, Syracuse University
2016-present Ryan Dunk, Ph.D. committee member, Syracuse University
2015-2017 Kelly Schmid, M.S. committee member, Syracuse University
2012-2017 Brian Gress, Ph.D. committee member, Syracuse University
2012-2015 Julia Dombroski, M.S. committee member, Federal University of Rio Grande do Norte, Brazil
2015 Paula Sobnko Hatum, M.S. review committee member, Federal University of Rio Grande do Norte, Brazil
2015 Luciana Silva Rocha, M.S. review committee member, Federal University of Rio Grande do Norte, Brazil
2011-2015 Trudi Webster, Ph.D. committee member, University of Otago
2010 -2014 Samuel Denes, Ph.D. committee member, Penn State University, Acoustics
2004-2009 Dawn Grebner, Ph.D. committee member, Penn State University, Acoustics

Undergraduate Research Advisor:

2017 – present Elaine Alberts, Undergraduate Research, Syracuse University
2016- present Alexandra Logan, Honors Undergraduate Research, Syracuse University
2015- present Keiya Akiyama, Honors Undergraduate Research, Syracuse University
2015-2017 George El-amir, Undergraduate Research, Syracuse University
2014-2016 Elliot Hunsinger, Undergraduate Research, SUNY ESF
2014-2016 Elyna Grapstein, Undergraduate Research, SUNY ESF
2014-2015 Joe Petraccione, Undergraduate Research, Syracuse University
2014-2015 Zach Lamplugh, Undergraduate Research, Syracuse University
2014-2015 Ana Vendrell, Undergraduate Research, Syracuse University
2013-2015 Tricia Daniels, Undergraduate Research, Syracuse University
2013-2014 Ashlei Tinsley, Undergraduate Research, Syracuse University
2013-2014 Janessa Bonti, Undergraduate Research, Syracuse University
2012-2015 Tricia Daniels, Undergraduate Research, Syracuse University
2012-2103 Alyssa Greco, Undergraduate Research, Syracuse University
2012-2013 Teresa Pucylowski, Undergraduate Research, SUNY ESF

2010-2012 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
2008-2009 Melody Young, Minority Undergraduate 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

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 TO PROFESSION

Scientific Societies:

Acoustical Society of America (2008- present): Animal Bioacoustics Technical Committee
Acoustical Society of America (2009): Technical Program Organizational Meeting
Representative
Acoustical Society of America (2013): Special Session Organizer, “Animal Vocal Modification
in Noise”, Montreal, Canada
Ecological Society of America (2015): Special Session Organizer, “Ecological Acoustics:
Conceptual and Technological Advances in Ecology Through Sound”
North Atlantic Right Whale Consortium (2008-2016), Advisory and Scientific Board Member
North Atlantic Right Whale Consortium (2013-2016), Chair
North Atlantic Right Whale Consortium (2010-2013), Vice-chair
Society for Marine Mammalogy (2007-2015), Scholarship and Awards Committee Member
Society for Marine Mammalogy (2016-present), Associate Editor, Marine Mammal Science

Reviewer for scientific journals:

African Journal of Zoology, Animal Behaviour, Annals of Marine Biology and Research,
Aquatic Mammals, Behaviour, Behavioural Ecology and Sociobiology, Biological Reviews,
Biology Letters, Conservation Biology, Ecological Indicators, Endangered Species Research,
Functional Ecology, Journal of the Acoustical Society of America, Landscape Ecology,
Mammalia, Marine Ecology Progress Series, Marine Mammal Science, Naturwissenschaften,
Northeastern Naturalist, PeerJ, Polar Biology, PLOS One, Proceedings of the National Academy
of Science, Nature Scientific Reports, Southeastern Naturalist, Urban Ecosystems.

Reviewer for fellowship and grant funding agencies:

National Ocean Partnership Program (NSF/NOAA/ONR)
National Science Foundation BIO, GEO divisions
National Science Foundation Graduate Research Fellowship Program

National Defense Science and Engineering Graduate Fellowships
Animal Behavior Society

DEPARTMENTAL/UNIVERSITY SERVICE

University Senate Member	2015-2017; 2018-2020
Department of Biology Graduate Committee	2012-2017
Department Chair Advisory Counsel	2017-present
Department of Biology Departmental Vision Committee	2014-present
SU WISE/SU ADVANCE participant	2012-present

OUTREACH

Provided whale sound samples and educational material for outreach 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, and the Encyclopedia of Life. Interviews for National Public Radio and Public Radio International. Annual presentations to the Museum of Science and Technology, Syracuse, NY women in science camp.

MEDIA COVERAGE

Physics.org – “The changing voices of North Atlantic right whales”, NOAA headquarters, March 12, 2018
BBC Blue Planet II Blog – “The people who listen to whales”, Chirs Baraniuk, November 20, 2017
Tufts Now – “The 50-ton patient”, Genevieve Rajewski, July 27, 2017
PNAS Editorial – “Listening in on the Deep”, Carolyn Beans, June 6, 2017
CBS News – “Unexpected threat to humpback whales revealed”, by Michael Casey, Associated Press, August 10, 2016.
ABC News – “Study Finds Ship Noise Disrupting Humpback Whale Feeding”, by Michael Casey, Associated Press, August 10, 2016.
The Guardian – “Shipping noise impairs ability of humpback whales to forage, study shows”, by Press Association, August 10, 2016.
Huffington Post - "Whales can be told apart by their voices – study”, May 19, 2015
The ingenious way humpback whales hunt in pitch-black waters at night" by James Cave, Jan 14, 2015
Aeon- “Sound Off” by Peter Brannen, October 14, 2014
Christian Science Monitor- “The Whale Savers”, by Doug Struck, October 12, 2014
National Geographic – “Will Atlantic oil prospecting silence endangered right whales?” by Doug Struck, August 9, 2014
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