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EDUCATION: B.S., UCSD, Physics and Electrical Engineering, 1978  
Ph.D., Stanford, Applied Physics, 1983

PROFESSIONAL EXPERIENCE: Professor of Oceanography, Scripps Institution of Oceanography, University of California, San Diego 1995-present  
Marine Mammal Commission, Board Scientific Advisors 2003-2008  
Member, MMC Subcommittee on Sound and Marine Mammals  
Scripps Institution of Oceanography Faculty Chair 02-03, 14-15  
Member, SIO Applied Ocean Sciences Curricular Group  
Member, SIO Biological Oceanography Curricular Group  
Adjunct Professor, Department Electrical & Computer Engineering, University of California, San Diego 1991-present  
Associate Professor of Oceanography, Scripps Inst. Oceanography University of California, San Diego 1991-95  
Assistant Professor of Oceanography, Scripps Inst. of Oceanography University of California, San Diego 1987-91  
Assistant Research Geophysicist, Scripps Inst. of Oceanography University of California, San Diego 1983-87

PROFESSIONAL SOCIETIES: Fellow of the Acoustical Society of America,  
Society Marine Mammalogy

RESEARCH INTERESTS: Marine mammal population census with acoustics;  
ambient noise impacts on marine mammals; field studies in Southern California, Bering Sea, Arctic, Gulf of Alaska, Gulf of California, Hawaii, Marianas Islands, Gulf of Mexico, Atlantic

SYNERGISTIC ACTIVITIES: Co-PI for SeaTech – Underserved teens hooked on ocean technology  
Acoustical Society of America – Member of Executive Council  
Associate Editor for journal: Marine Mammal Science

### Recent Peer-Reviewed Publications: (selected from 174 total)

- Frasier, Kaitlin E., S. M. Wiggins, D. Harris, T. A. Marques, L. Thomas, and J. A. Hildebrand. "Delphinid echolocation click detection probability on near-seafloor sensors" *J. Acoust. Soc. Am.*, 140, 1918 (2016).
- S. Wiggins, J. M. Hall, B. J. Thayre and J. A. Hildebrand, "Gulf of Mexico low-frequency ocean soundscape impacted by airguns" *J. Acoust. Soc. Am.*, 140:176-183 (2016).
- A. Širović, J. A. Hildebrand, and M. A. McDonald, "Ocean ambient sound south of Bermuda and Panama Canal traffic," *J. Acoust. Soc. Am.*, 139(5), 2417-2423 (2016).
- M. A. Roch, H. Batchelor, S. Baumann-Pickering, C. L. Berchok, D. Cholewiak, E. Fujioka, E.C. Garland, S. Herbert, J. A. Hildebrand, E. M. Oleson, S. Van Parijs, D. Risch, A. Širović, and M. S. Soldevilla. "Management of acoustic metadata for bioacoustics". *Ecological Informatics* 31:122-135 (2016).
- J. A. Hildebrand, Baumann-Pickering, S., Frasier, K. E., Trickey, J. S., Merkens, K. P., Wiggins, S. M., McDonald, M. A., Harris, D., Marques, T. A., and Thomas, L. (2015). "Passive acoustic monitoring of beaked whale densities in the Gulf of Mexico " *Scientific Reports* 5, 16343 (2015).
- A. Širović, A. Rice, E. Chou, J. A. Hildebrand, S. M. Wiggins, and M. A. Roch. "Seven years of blue and fin whale call abundance in Southern California," *Endangered Species Research*, 28: 61-76 (2015).
- S. Baumann-Pickering, S., Roch, M. A., Wiggins, S. M., Schnitzler, H. U. and Hildebrand, J. A. Acoustic behavior of melon-headed whales varies on a diel cycle. *Behav. Ecol. Sociobiol.* 69, 1553-1563, doi:10.1007/s00265-015-1967-0 (2015).
- M. Gassmann, Wiggins, S. M., and Hildebrand, J. A. "Three-dimensional tracking of Cuvier's beaked whales' echolocation sounds using nested hydrophone arrays," *J. Acoust. Soc. Am.*, 138, 2483-2494 (2015)
- M. V. Reyes Reyes, Iñiguez, M. A., Hevia, M., Hildebrand, J. A., and Melcón, M. L. (2015). "Description and clustering of echolocation signals of Commerson's dolphins (*Cephalorhynchus commersonii*) in Bahía San Julián, Argentina," *J. Acoust. Soc. Am.* 138, 2046-2053.
- J. S. Trickey, J. S., Baumann-Pickering, S., Hildebrand, J. A., Reyes Reyes, M. V., Melcon, M., and Iniguez, M. (2015) "Antarctic beaked whale echolocation signals near South Scotia Ridge," *Mar Mammal Sci.* 31:1265-1274 .
- S. M. Wiggins, S. M., Leifer, I., Linke, P., and Hildebrand, J. A. "(2015) Long-term acoustic monitoring at North Sea well site 22/4b", *Marine and Petroleum Geology*. 68 Part B:776-788.
- G. S. Campbell, L. Thomas, K. Whitaker, A. Douglas, J. Calambokidis and J. A. Hildebrand. "Inter-annual and seasonal trends in cetacean distribution, density and abundance in waters off southern California," *Deep Sea Research II. Topical Studies in Oceanography* 112, 143-157 (2015).
- E. M. Oleson, A. Širović, A. R. Bayless, and J. A. Hildebrand. "Synchronous Seasonal Change in Fin Whale Song in the North Pacific," *PLoS ONE* 9(12): e115678. doi:10.1371/journal.pone.0115678 (2014).
- A. Širović, S. C. Johnson, L. K. Roche, L. M. Varga, S. M Wiggins, and J. A. Hildebrand. "North Pacific right whales (*Eubalaena japonica*) recorded in the Northeastern Pacific Ocean in 2013," *Marine Mammal Science*, DOI:10.1111/mms.12189 (2014).
- E. E. Henderson, Smith, M. H., Gassmann, M., Wiggins, S. M., Douglas, A. B., and Hildebrand, J. A. "Delphinid behavioral responses to incidental mid-frequency active sonar" *J. Acoust. Soc. Amer.* 136, 2003-2014 (2014).
- A. Širović, HR Bassett, SC Johnson, SM Wiggins and JA Hildebrand. Bryde's whale calls recorded in the Gulf of Mexico. *Marine Mammal Science*: 30: 399-409 doi: 10.1111/mms.12036 (2014).
- S. Baumann-Pickering, Roch, M. A., Brownell Jr, R. L., Simonis, A. E., McDonald, M. A., Solsona-Berga, A., Oleson, E. M., Wiggins, S. M., and J. A. Hildebrand. Spatio-Temporal Patterns of Beaked Whale Echolocation Signals in the North Pacific. *PLoS One* 9, e86072 (2014).
- T. A. Helble, GL D'Spain, GS Campbell and JA Hildebrand. Calibrating passive acoustic monitoring: Correcting humpback call detections for site-specific and time-dependent environmental characteristics. *J. Acoust. Soc. Amer.* 134(5): EL400-EL406. (2013).
- S. Baumann-Pickering, M. McDonald, A. Simonis, A. Solsona Berga, K. Merkens, E. Oleson, M. Roch, S. Wiggins, S. Rankin, T. Yack, and J. Hildebrand. Species-specific beaked whale echolocation signals. *J. Acoust. Soc. Am.*, *J. Acoust. Soc. Am.*, 134 (3): 2293-2301 (2013).