

Christopher Bassett

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Applied Ocean Physics and Engineering
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Education

2013	Ph.D. Mechanical Engineering, University of Washington
2010	M.S. Mechanical Engineering, University of Washington
2007	B.S. Mechanical Engineering, University of Minnesota

Professional Experience

2013-pres.	Postdoctoral Scholar, Department of Applied Ocean Physics & Engineering, Woods Hole Oceanographic Institution
2009-2013	Graduate Research Assistant, Mechanical Engineering, University of Washington
2008-2009	Teaching Assistant, Department of Physics, University of Minnesota

Honors and Awards

Woods Hole Oceanographic Institution Postdoctoral Scholar Fellowship (2013)
University of Washington Graduate School Medal (2013)
National Science Foundation Graduate Research Fellowship Program (2010)
University of Minnesota Institute of Technology Dean's List (2006-2007)
S & V Jacobsen Scholarship (2006-2007)

Publications

- J.1 **Bassett, C.**, A.C. Lavery, T. Maksym, and J. Wilkinson (submitted). High-frequency, broadband scattering from sea ice and crude oil, *Journal of the Acoustical Society of America*.
- J.2 Polayge, B., **C. Bassett**, M. Holt, J. Wood, and S. Barr (under revision). Estimated detection of tidal turbine operating noise in Admiralty Inlet, Puget Sound, Washington, *Journal of Oceanic Engineering*.
- J.3 **Bassett, C.**, J. Thomson, P. Dahl and B. Polayge (2014). Flow-noise and turbulence in two tidal channels, *Journal of the Acoustical Society of America*, 135(4), 1764-1774.
- J.4 **Bassett, C.**, J. Thomson, and B. Polayge (2013). Ambient noise and bed stress in a tidal channel, *Journal Geophysical Research – Oceans*, 118, 1-17.

- J.5 **Bassett, C.**, B. Polayge, J. Thomson, and M. Holt (2012). A vessel noise budget for Admiralty Inlet, Puget Sound, WA (USA), *Journal of the Acoustical Society of America*, 132(6), 3706-3719.

Conference Proceedings

- C.1 Wilkinson, J. T. Maksym, **C. Bassett**, A.C. Lavery, H. Singh, D. Chayes, P. Elosegui, P. Wadhams, K. Ulrich-Evers, and P. Jochmann. Experiments on the detection and movement of oil spilled under sea ice. *Proceedings of the HYDRALAB IV Joint User Meeting*. Lisbon, Portugal. July 2-4, 2014.
- C.2 **Bassett, C.**, A.C. Lavery, and T. Maksym. Laboratory measurements of high-frequency, broadband acoustic scattering of growing sea ice and oil beneath sea ice. *Proceedings of Meetings on Acoustics*. Providence, RI. May 5-9, 2014.
- C.3 **Bassett, C.**, B. Polayge, and J. Thomson, and K. Rhinefrank. Underwater noise measurements of a $1/7^{\text{th}}$ scale wave energy converter. *MTS/IEEE Oceans*. Kona, HI. September 18-22, 2011.
- C.4 **Bassett, C.**, J. Thomson, and B. Polayge. Characteristics of underwater ambient noise at a proposed tidal energy site in Puget Sound. *MTS/IEEE Oceans*. Seattle, WA. September 21-23, 2010.

Technical Reports

- T.1 Cagua, E.F., **C. Bassett**, R. Kayanda, J. Rubens, and H. Machano (2014). Acoustic Monitoring of Blast Fishing: Pilot Study - Dar es Salaam. Report CN 94 to WWF Tanzania Country Office: Marine Programme.

Conference Abstracts

- A.1 **Bassett, C.**, A. Lavery, and T. Maksym. Laboratory measurements of high-frequency, broadband acoustic scattering of growing sea ice and oil beneath sea ice. *Meeting of the Acoustical Society of America*, Providence, RI, May 5-9, 2014.
- A.2 **Bassett, C.**, J. Thomson, B. Polayge, and J. Wood. Shifting gravel and the acoustic detection range of killer whales. *American Geophysical Union Fall Meeting*, San Francisco, CA, December 3-7, 2012.
- A.3 **Bassett, C.**, J. Thomson, and B. Polayge. Course-grained sediment mobilization as a source of ambient noise. *American Geophysical Union Ocean Sciences Meeting*. Salt Lake City, UT. February 20-24, 2012.
- A.4 **Bassett, C.**, B. Polayge, and J. Thomson, and K. Rhinefrank. Underwater noise measurements of a $1/7^{\text{th}}$ scale wave energy converter. *MTS/IEEE Oceans*. Kona, HI. September 18-22, 2011.

- A.5 **Bassett, C.**, B. Polagye. and J. Thomson. Approaches to ambient noise characterization at tidal energy sites. *Meeting of the American Fisheries Society*, Seattle, WA, September 23-27, 2011.
- A.6 **Bassett, C.**, J. Thomson, and B. Polagye. Estimating the acoustic impact of a tidal energy project, *Meeting of the Acoustical Society of America*, Seattle, WA, May 23-27, 2011.
- A.7 Polagye, B., J. Wood, **C. Bassett**, D. Tollit, and J. Thomson, Behavioral response of harbor porpoises to vessel noise in a tidal strait, *Meeting of the Acoustical Society of America* Seattle, WA, May 23-27, 2011.
- A.8 Polagye, B., J. Thomson, **C. Bassett**, and J. Epler. Comprehensive characterization of a tidal energy site. *American Geophysical Union Fall Meeting*. San Francisco, CA. December 13-17, 2010.
- A.9 Polagye, B., **C. Bassett** and, J. Thomson. Passive acoustics. *Renewable Ocean Energy and the Marine Environment*. Palm Beach Gardens, FL. November 4-6, 2010.

Service

Acoustical Oceanography Technical Committee Member (2014)

Acoustical Society of America

Peer Reviewer (2014)

Journal of the Acoustical Society of America Express Letters

U.S. Dept. of Energy Review Panel (2014)

Environmental Stewardship for Renewable Energy Technologies: MHK Environmental and Resource Characterization Instrumentation

Student Paper Judge (2014)

167th Meeting of the Acoustical Society of America, Providence, RI

Workshop Participant (2013)

Instrumentation for Monitoring around Marine Renewable Energy Devices

U.S. Dept. of Energy Review Panel (2013)

Marine and Hydrokinetic (MHK) Environmental Effects Assessment and Monitoring

Peer Reviewer (2012)

Marine Renewable Energy Resource Characterization and Environmental Monitoring: Review and Gap Analysis of Technologies and Capabilities for Natural Resources
Canada's CanmetENERGY

Professional Affiliations

Acoustical Society of American

American Geophysical Union

Outreach

Invited Speaker:

American Cetacean Society Speaker Series, Puget Sound Chapter (2013)

Emerald Sea Diving Club (2013)

Marker Buoy Dive Club (2013)

Exhibitor: Seattle Science EXPO (2012-2013)

Presenter: UW College of Engineering Discovery Days (2010-2013)

Volunteer: National Ocean Science Bowl - Orca Bowl (2012)

Guest Instructor: Robinson Center Summer Challenge (2013)

Volunteer/Instructor: Ocean Inquiry Project (2010-2011)

Exhibit Design/Exhibitor Windustry at the Minnesota State Fair (2008)

Organizer/Instructor: for B.R.I.D.G.E at the University of Minnesota (2007-2008)

Assistant Director/Tutor: Santo Rosario Grupo de Jovenes, Minneapolis, MN (2005)