Stanford



Ashley Marie Blawas

Postdoctoral Scholar, Oceans

Bio

PROFESSIONAL EDUCATION

- BSE, Duke University , Biomedical Engineering (2018)
- PhD, Duke University , Marine Science (2023)

Research & Scholarship

LAB AFFILIATIONS

- Jeremy Goldbogen (6/1/2023)

Teaching

COURSES

2023-24

- Bio-logging and Bio-telemetry: OCEANS 14H (Spr)

Publications

PUBLICATIONS

- **Increases in foraging performance of humpback whales in multi-predator feeding aggregations with California sea lions.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
  Krylova, A., Blawas, A. M., Fahlbusch, J. A., Calambokidis, J., Clayton, H., Friedlaender, A. S., Stimpert, A. K., Goldbogen, J. A., Cade, D. E.
  2026; 381 (1961)
- **Central command activation and the dive response in marine mammals.** *Journal of applied physiology (Bethesda, Md. : 1985)*
  Blawas, A. M., Fahlman, A.
  2026; 141 (2): 595-596
- **Sprint-like cardiac dynamics support repeated acrobatic lunges in foraging rorqual whales.** *Proceedings of the National Academy of Sciences of the United States of America*
  Blawas, A. M., Fahlbusch, J., Barkowski, J., Cade, D. E., Calambokidis, J., Friedlaender, A. S., Southall, B., Ponganis, P. J., Goldbogen, J. A.
  2026; 123 (31): e2613082123
- **Energetic benefits of resting behaviour in humpback whale mother-calf pairs revealed by biologging and UAS-photogrammetry.** *Conservation physiology*
  Hollers, A., Gough, W. T., van Aswegen, M., Szabo, A., Evans, L., Currie, J. J., Blawas, A. M., Fahlman, A., Goldbogen, J. A., Bejder, L.
  2026; 14 (1): coag041
- **Short-finned pilot whales modulate surfacing and breathing patterns more strongly in response to dives than in anticipation.** *American journal of physiology. Regulatory, integrative and comparative physiology*

Blawas, A. M., Shearer, J. M., Fahlman, A., Read, A. J., Nowacek, D. P.
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- **Daily energetic expenditure and energy consumption of short-finned pilot whales.** *The Journal of experimental biology*
  Gough, W. T., Madrigal, B. C., Hollers, A., Currie, J. J., Baird, R. W., West, K. L., Fahlman, A., Fish, F. E., Evans, L., van Aswegen, M., Stirling, B., Pacini, A., Olson, et al
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- **Life in the slowest lane: Feeding allometry lowers metabolic rate scaling in the largest whales.** *Science advances*
  Blawas, A. M., Videsen, S. K., Cade, D. E., Calambokidis, J., Friedlaender, A. S., Johnston, D. W., Madsen, P. T., Goldbogen, J. A.
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- **Role of low-impact-factor journals in conservation implementation.** *Conservation biology : the journal of the Society for Conservation Biology*
  Choi, J. J., Gaskins, L. C., Morton, J. P., Bingham, J. A., Blawas, A. M., Hayes, C., Hoyt, C., Halpin, P. N., Silliman, B.
  2024: e14391

- **Aerobic dive limit in short-finned pilot whales Globicephala macrorhynchus: an assessment of behavioral criteria** *MARINE ECOLOGY PROGRESS SERIES*
  Blawas, A. M., Miller, L. E., Shearer, J. M., Cioffi, W. R., Webster, D. L., Swaim, Z. T., Foley, H. J., Waples, D. M., Quick, N. J., Nowacek, D. P., Read, A. J.
  2024; 744: 161-170

- **Passive acoustic surveys demonstrate high densities of sperm whales off the mid-Atlantic coast of the USA in winter and spring.** *Marine environmental research*
  Boisseau, O., Nowacek, D., Pabst, D. A., Roberts, J., Blawas, A., Clabaugh, A., McLanaghan, R., Moscrop, A., Levenson, J. J.
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- **Dynamic body acceleration as a proxy to predict the cost of locomotion in bottlenose dolphins** *JOURNAL OF EXPERIMENTAL BIOLOGY*
  Allen, A. S., Read, A. J., Shorter, K., Gabaldon, J., Blawas, A. M., Rocho-Levine, J., Fahlman, A.
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- **An integrated comparative physiology and molecular approach pinpoints mediators of breath-hold capacity in dolphins.** *Evolution, medicine, and public health*
  Blawas, A. M., Ware, K. E., Schmaltz, E., Zheng, L., Spruance, J., Allen, A. S., West, N., Devos, N., Corcoran, D. L., Nowacek, D. P., Eward, W. C., Fahlman, A., Somarelli, et al
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- **Scaling of heart rate with breathing frequency and body mass in cetaceans** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
  Blawas, A. M., Nowacek, D. P., Rocho-Levine, J., Robeck, T. R., Fahlman, A.
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- **Respiratory sinus arrhythmia and submersion bradycardia in bottlenose dolphins (Tursiops truncatus)** *JOURNAL OF EXPERIMENTAL BIOLOGY*
  Blawas, A. M., Nowacek, D. P., Allen, A. S., Rocho-Levine, J., Fahlman, A.
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- **Conditioned Variation in Heart Rate During Static Breath-Holds in the Bottlenose Dolphin (Tursiops truncatus).** *Frontiers in physiology*
  Fahlman, A., Cozzi, B., Manley, M., Jabas, S., Malik, M., Blawas, A., Janik, V. M.
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- **Cardiorespiratory coupling in cetaceans; a physiological strategy to improve gas exchange?** *JOURNAL OF EXPERIMENTAL BIOLOGY*
  Fahlman, A., Miedler, S., Marti-Bonmati, L., Ferrero Fernandez, D., Munoz Caballero, P., Arenarez, J., Rocho-Levine, J., Robeck, T., Blawas, A.
  2020; 223 (17)

- **Effects of methyl and inorganic mercury exposure on genome homeostasis and mitochondrial function in Caenorhabditis elegans** *DNA REPAIR*
  Wyatt, L. H., Luz, A. L., Cao, X., Maurer, L. L., Blawas, A. M., Aballay, A., Pan, W. K., Meyer, J. N.
  2017; 52: 31-48