William R. Cioffi

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Education

**PhD** 2020. Ecology, Duke University. Supervised by Andrew Read.

**MS** 2015. Marine Biology, University of Massachusetts Dartmouth. Supervised by Richard Connor.

**AB** 2010. Biology, Brown University.

Current Position

**June 2020 - current** Associate Scientist Post-Doctoral Researcher, Southall Environmental Associates,

Inc. Supervisor: Brandon Southall.

Research Positions

**2014 –2020** Duke University. Responsibilities include: fieldwork and data analysis on various projects including Atlantic Behavioral Response Study, PIs: Brandon Southall (SEA), Douglas Nowacek (Duke), Andrew Read (Duke). 40hr/week during summer field season.

**2012 – 2014** North Atlantic Right Whale mother calf acoustics project in Bay of Fundy, Cape Cod Bay, Southeast U.S., PIs: Susan Parks (Syracuse University), Sofie Van Parijs (Northeast Fisheries Science Center / NOAA). Responsibilities included: collecting behavioral and acoustic data, photo identification, operating and maintaining small boat.

Relevant Manuscripts

**Cioffi WR,** Quick NJ, Foley HJ, Waples DM, Swaim ZT, Shearer JM, Webster DL, Friedlaender AS, Southall BL, Baird RW, Noweacek DP, Read AJ. 2021. Adult male Cuvier’s beaked whales (*Ziphius cavirostris*) engage in prolonged bouts of synchronous diving. Marine Mammal Science. 37:1085-1100. doi: 10.111/mms.12799.

Quick NJ, **Cioffi WR**, Shearer JM, Fahlman A, Read AJ. Extreme diving in mammals: first estimates of behavioural aerobic dive limits in Cuvier's beaked whales. 2020. Journal of Experimental Biology. doi: 10.1242/jeb.222109.

McCue LM, **Cioffi WC**, Heithaus MR, Barrè L, Connor RC. 2020*.* Synchrony, leadership and association in male Indo-Pacific bottlenose dolphins (*Tursiops aduncus*). *Ethology*. doi: 10.1111/eth.13025.

Hamilton RA, Borcuch T, Allen SJ, **Cioffi WR**, Bucci V, Krützen M, Connor RC. 2019*.* Aggression varies with consortship rate and habitat in a dolphin social network. Behavioral Ecology and Sociobiology. 73:141. doi: 10.1007/s00265-019-2753-1

Quick NJ, **Cioffi WR**, Shearer JM, Read AJ. 2019*.* Mind the gap: optimizing satellite tag settings for time series analysis of foraging dives in Cuvier’s beaked whales (*Ziphius cavirostris*). Animal Biotelemetry. 7:5. doi: 10.1186/s40317-019-0167-5.

Shearer JM, Quick NJ, **Cioffi WR**, Baird, RW, Webster DL, Foley HJ, Swaim ZT, Waples DM, Bell JT, Read AJ. Diving behaviour of Cuvier’s beaked whales (*Ziphius cavirostris*) off Cape Hatteras, North Carolina. 2019. Royal Society Open Science. 6. doi:10.1098/rsos.181728.

Connor RC, **Cioffi WR**, Randić S, Watson-Capps J, Allen SJ, Krützen M. 2017. Male alliance behaviour and mating access varies with habitat in a dolphin social network. Scientific Reports. 7, 46354; doi: 10.1038/srep46354

Relevant Conference Talks and Posters(**\***Mentored undergraduate; first author is presenter in all cases)

**Cioffi WR**, Quick NJ, Foley HJ, Waples DM, Swaim ZT, Shearer JM, Webster DL, Friedlaender AS, Southall BL, Baird RW, Nowacek DP, Read AJ. Extreme synchrony in diving behavior of Cuvier’s beaked whales (Ziphius cavirostris) off Cape Hatteras, North Carolina. Presented at 2019 World Marine Mammal Conference. Barcelona, Spain.

Foroughirad VJ, **Cioffi WR**, Swaim ZT, Waples DM, Foley HJ, Quick NJ, Read AJ. Short-finned pilot whale population and social structure off Cape Hatteras, North Carolina, USA. Presented at 2019 World Marine Mammal Conference. Barcelona, Spain.

Quick NJ, **Cioffi WR**, Harris CM, DeRuiter SL, Southall BL, Read AJ. More than metronomes: Variation in diving behaviour of Cuvier’s Beaked whales (*Ziphius cavirostris*). Presented at 2019 World Marine Mammal Conference. Barcelona, Spain.

Southall BL, **Cioffi WR**, Quick NJ, Schick RS, Nowacek DP, Webster DL, Swaim ZT, Foley HJ, Waples DM, Harris, CM, Thomas L, Margolina T, Bowers M, Friedlaender AS, Southall K, DeRuiter SL, Wisse JH, Shearer J, Read AJ. Atlantic behavioral response study – Responses of Cuvier’s beaked whales and short-finned pilot whales to military sonar off Cape Hatteras, North Carolina, USA. Presented at 2019 World Marine Mammal Conference. Barcelona, Spain.

**Cioffi WR**, Bentaleb I, Read A. Variation in stable isotopes reflect differences in the foraging ecology of fin whales (*Balaenoptera physalus*) between the North Atlantic and Mediterranean Seas. Poster at Society for Marine Mammalogy 2017. Halifax, NS, Canada.

\*Klingshirn S, **Cioffi WR**, Hodge L, Read A, Nowacek D. Fin whale song variation in the Middle Atlantic. Poster at 2017 South East and Mid-Atlantic Marine Mammal Symposium, Beaufort, NC.

**Cioffi WR,** Wisse JH, Pallin LJ, Read AJ. Baleen (alpha-keratin) archives metabolic and endocrine individual life histories of mysticetes. Poster at 2017 South East and Mid Atlantic Marine Mammal Symposium, Beaufort, NC.

Connor RC, **Cioffi WR**, Randic S, Watson-Capps J, Allen S, Sherwin W, Krützen M. Consortship rate and alliance structure vary with habitat in a large bottlenose dolphin (*Tursiops cf. aduncus*) social network. Presented by R.C.C. at Society for Marine Mammalogy 2015. San Francisco, CA.

Khan C, **Cioffi WR,** Whitehead H, Hamilton P, Redefining association: North Atlantic right whales within communication range. Presented by C.K. at Society for Marine Mammalogy 2015. San Francisco, CA.

Honors and Awards

**2019** Jenkins Family Graduate Fellowship (Competitive Summer Research Fellowship)

**2018** Anne T. and Robert M. Bass Fellowship (Competitive Summer Research Fellowship)

**2017** Lerner Gray Memorial Fund of the American Museum of Natural History grant award.

**2017** Data Expeditions award, Information Initiative at Duke: *Stable Isotope Trophic Ecology*

**2017** Duke University Graduate Student Training Enhancement Grant towards costs and travel to Stable Isotope Biogeochemistry and Ecology course, University of Utah.

**2017** NSF participant award towards the cost of Stable Isotope Biogeochemistry and Ecology course, University of Utah.

**2017** Black Family Fellowship (Summer Research Fellowship).

**2012** University of Massachusetts Dartmouth Biology Department research mini-grant.

**2011-2013** University of Massachusetts Dartmouth Graduate Teaching Assistantship Biology Department.

Other Scholarly Activities

R package for data processing and visualization of dive tag data: [github.com/williamcioffi/sattagutils](http://github.com/williamcioffi/sattagutils)

R package for live tracking of Argos tagged animals in the field: [github.com/williamcioffi/monitorgonio](https://github.com/williamcioffi/monitorgonio)

Stable isotope in baleen project website and data exploration tool: [williamcioffi.github.io/keras](https://williamcioffi.github.io/keras/)