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To whom it may concern,

I, Jeremy Arnt, M.Sc. candidate in the Coastal Marine and Wetlands Science program at Coastal Carolina University, completed an independent and uncompensated review and limited analysis of the efficacy of the Sharkbanz company's wrist and shark leash products as bull shark (*Carcharhinus leucas*) bite deterrents in tests designed and carried out by the company earlier. Using video provided to me by Sharkbanz, I annotated 1196 independent behaviors over the 2 hours 38 minutes of footage recorded in Bimini, Bahamas by Sharkbanz.

After viewing the bull shark footage, I rigorously scored the videos and statistically analyzed the data. My conclusion was consistent with the evaluation performed by Sharkbanz. Specifically, I found a statistically higher rate of bites on the dummy without the Sharkbanz product than the dummy with each of them. Additionally, dummies with the Sharkbanz products had a statistically higher occurrence of aversion behaviors (swimming away) than dummies with shams.

Although my analysis of the video data collected by Sharkbanz demonstrated that bull sharks bit the dummy with Sharkbanz wrist and shark leash less frequently than controls, more research is required to determine the efficacy of the product under real-world conditions. Future studies could benefit from more rigorous scientific and statistical methodologies to determine bull shark behaviors and responses to Sharkbanz wrist and shark leash deterrents under field conditions in which interactions between bull sharks and swimmers might occur.

Jeremy Arnt