
PURPOSE

Conservation of threatened marine species.
fisheries ecology | experiential education | public engagement | science-informed policy

EDUCATION

Ph.D. **Florida International University**, Biology, 2018–2022

Dissertation: Fisheries ecology of threatened sharks in the western central Atlantic Ocean;
Advisor: Dr. Michael Heithaus

M.Sc. **Florida State University**, Biological Science, 2013–2016

Thesis: Post-release mortality of deep-sea bycatch species; Advisor: Dr. Dean Grubbs

B.Sc. **Furman University**, Biology, 2007–2011

Thesis: Metapopulation implications of resident cougars in narrow riparian habitats in New Mexico;
Advisor: Dr. Travis Perry

Thesis: Lionfish habitat use and prey selection; Advisors: Dr. John Claydon & Marta Calosso

PROFESSIONAL EXPERIENCE

Scripps Institution of Oceanography, *Postdoctoral Scholar*, 2024–Present

- Characterizing toxicant (e.g., DDT) concentrations in commercially important fishes of the Southern California Bight

Scripps Institution of Oceanography & The Nature Conservancy, *Postdoctoral Scholar*, 2022–2023

- Developed a conceptual model of silky shark life history in the eastern Pacific Ocean in collaboration with the Inter-American Tropical Tuna Commission

Blue Ventures, *Subcontractor*, Spring 2021

- Literature review and analysis of small-scale octopus fisheries

Cape Eleuthera Institute, *Senior Research Scientist*, 2018–2021

- Developed and led the [Exuma Sound Ecosystem Research Project](#), focused on shark biology, fisheries ecology, [deepwater community structure](#), & open-ocean biodiversity

U.S. Marine Mammal Commission, NOAA Seagrant Knauss Fellowship, *Communications & Policy Analyst*, 2017–2018

- Bycatch monitoring, assessment, and reduction efforts & public and legislative communications
- Co-founder of Knauss Outreach

The Pew Charitable Trusts, U.S. Oceans Southeast, *Subcontractor*, March 2016

- Identified gaps in fishery-independent survey coverage of forage & reef fishes in the Gulf of Mexico

Cape Eleuthera Institute, *Shark Research & Conservation Program, Research Associate*, 2012–2013

- Stress physiology, longline capture behavior, long-term population monitoring, shark ecology

Shark Bay Ecosystem Research Project, *Marine Community and Behavioral Ecology Lab, Florida International University, Research Assistant*, 2012

Furman University Puma Project, *Bosque del Apache National Wildlife Refuge, Research Assistant*, 2010

TEACHING

Monmouth University, *Co-Instructor, Tropical Island Ecology, The Bahamas*, 2015–2023

The Island School, *Lead Teacher, Applied Research, Grades 10-12, The Bahamas*, 2012–2020

Developed and led inquiry-based, experiential courses on the scientific method & field research using ongoing shark research as a focus. [Fall 2019](#), [Spring 2019](#), [Fall 2018](#), [Spring 2018](#), [Spring 2015](#), [Fall 2014](#), [Spring 2013](#), [Fall 2012](#).

Broadreach, *Academic Instructor, Shark Studies (College Credit), Grades 10–12, Fiji*, 2016

Florida State University, *Graduate Teaching Assistant, Tallahassee, Florida*, 2013–2016

Eukaryotic Diversity, Biology of Fishes, Investigations in Biology

Seacamp / Newfound Harbor Marine Institute, *School Coordinator & Marine Science Instructor, Grades 7–12, Big Pine Key, Florida*, 2011

Fisheries, Florida Keys Biodiversity, Coral Reef Ecology, Marine Ecosystems - NAUI Master Diver

Furman University, *Teaching Assistant - Ecology, Greenville, South Carolina*, 2011

SCIENTIFIC PUBLICATIONS

Peer-Reviewed Journal Articles (*italics denote mentee*):

Talwar BS, Semmens BX, Aires-Da-Silva A, Griffiths S, Humberstone J, Hutchinson M, Lopez J, Minte-Vera C, Ovando D, Román-Verdesoto M, Siu S, Bellquist LF. 2025. [Informing the spatial management of Silky Shark in the Pacific Ocean](#). *Reviews in Fish Biology and Fisheries*.

Allerton AJ, Schneider EVC, Kiszka JJ, **Talwar BS**. 2025. [Trends in marine mammal bycatch in U.S. fisheries from 1990 to 2017](#). *Aquatic Conservation: Marine and Freshwater Ecosystems*.

Schneider EVC, **Talwar BS**, Bailey DM, Killen SS, Webber DM, MacSween CE, Van Leeuwen TE, Smith FI. 2025. [Determination of distance away and depth of transmitters relative to a vertical acoustic telemetry array in the open ocean](#). *Animal Biotelemetry*.

Li Shing Hiung et al. 2024. [Ocean weather, biological rates, and unexplained global ecological patterns](#). *PNAS Nexus*.

Lee CS, Shipley ON, Xiayan Y, Fisher NS, Gallagher AJ, Frisk MG, **Talwar BS**, Schneider EVC, Venkatesan A. 2024. [Accumulation of per- and polyfluoroalkyl substances \(PFAS\) in coastal sharks from contrasting marine environments: The New York Bight and The Bahamas](#). *Env. Science & Technology*.

Shipley ON, Bruce NL, Higgs ND, Rawlins S, Irschick DJ, Gutierrez R, Moyer JK, Violich M, **Talwar BS**, Schneider EVC, Robinson NJ, Brooks EJ. 2024. [A new species of deep-sea *Booralana* Bruce, 1986 \(Crustacea: Isopoda: Cirolanidae\) from The Bahamas, Western North Atlantic](#). *Zootaxa*.

Talwar BS, Brooks EJ, Abercrombie DL, Anderson B, Bond ME, Brooks AML, Chapman DD, Clementi GM, Fields CYA, Gelsleichter J, Grubbs RD, Howey LA, Jordan LKB, Kiszka JJ, Knotek RJ, Papastamatiou YP, Peterson CT, Schneider EVC, Shipley ON, Williams S, Winchester MM, Heithaus MR. 2023. [Insights into the relative abundance, life history, and ecology of oceanic sharks in the eastern Bahamas](#). *Sustainability*.

Schneider EVC, **Talwar BS**, Killen S, Russell S, Van Leeuwen T, Bailey DM. 2023. [Colonization, diversity, and seasonality of fishes at pelagic fish aggregating devices \(FADs\)](#). *Journal of Fish Biology*.

Schneider EVC, Zuckerman Z, **Talwar BS**, Cooke SJ, Shultz A, Suski CD. 2023. [Aerobic responses to climate change differ across ontogeny in a teleost fish](#). *Journal of Fish Biology*.

Shipley ON, Matich P, Hussey NE, Brooks A, Chapman D, Frisk MG, Guttridge A, Guttridge TL, Howey LA, Kattan S, Madigan DJ, Murchie K, Nyce J, O'Shea O, Polunin NV, Power M, Smukall M, Schneider EVC, **Talwar BS**, Winchester M, Witt MJ, Brooks EJ, Gallagher AJ. 2023. [Energetic connectivity of diverse elasmobranch populations – implications for ecological resilience](#). *Proceedings of the Royal Society B: Biological Sciences*.

Talwar BS, Bond ME, Williams S, Brooks EJ, Chapman DD, Howey LA, Knotek R, Gelsleichter J. 2023. [Reproductive timing and putative mating behavior of the oceanic whitetip shark *Carcharhinus longimanus* in the eastern Bahamas](#). *Endangered Species Research*.

Pacoureau N, Carlson JK, Kindsvater HK, Rigby CL, Winker H, Simpfendorfer CA, Charvet P, Pollom RA, Barreto R, Sherman CS, **Talwar BS**, Skerritt DJ, Sumaila UR, Matsushiba JH, VanderWright WJ, Yan HF, Dulvy NK. 2023. [Conservation successes and challenges for wide-ranging sharks and rays](#). *PNAS*.

Knotek RJ, Brooks EJ, Howey LA, Gelsleichter JG, **Talwar BS**, Winchester MM, Jordan LKB, Williams S, Bond ME, Brooks AML, Shipley ON, Bacon T, Kneebone JR, Mandelman JW. 2022. [Merging technologies and supervised classification methods to quantify capture behavior on hook-and-line](#). *Journal of Experimental Marine Biology and Ecology*.

Talwar BS, Anderson B, Avalos-Castillo CG, Blanco-Parra MDP, Briones A, Cardeñosa D, Carlson JK, Charvet P, Cotton CF, Crysler Z, Derrick DH, Heithaus MR, Herman KB, Koubrak O, Kulka DW, Kyne PM, Lasso-Alcalá OM, Mejía-Falla PA, Morales-Saldaña JM, Naranjo-Elizondo B, Navia AF, Pacoureau N, Peréz-Jiménez JC, Pollom RA, Rigby CL, Schneider EVC, Simpson N, Dulvy NK. 2022. [Extinction risk, reconstructed catches, and management of chondrichthyan fishes in the Western Central Atlantic Ocean](#). *Fish and Fisheries*.

Talwar BS, Bradley D, Berry C, Bond ME, Bouyoucos IA, Brooks AML, Fields CYA, Gallagher AJ, Guttridge TL, Guttridge AE, Hammerschlag N, Hamilton I, Keller BA, Kessel ST, Matich P, O'Shea OR, Papastamatiou YP, Raguse C, Schneider EVC, Shipley ON, Smukall MJ, van Zinnicq Bergmann MPM, Brooks EJ. 2022. [Estimated life history traits and movements of the Caribbean reef shark \(*Carcharhinus perezi*\) in The Bahamas based on tag-recapture data](#). *Marine Biology*.

Shipley ON, Henkes G, Gelsleichter J, Morgan C, Schneider EVC, **Talwar BS**, Frisk M. 2021. [Shark tooth collagen stable isotope ratios \(\$\delta^{15}\text{N}\$ and \$\delta^{13}\text{C}\$ \) to study time-variant ecologies](#). *Journal of Animal Ecology*.

Van Zinnicq Bergmann MPM, Postaire BD, Gastrich K, Heithaus MR, Hoopes LA, Lyons K, Papastamatiou YP, Schneider EVC, Strickland BA, **Talwar BS**, Chapman DD, Bakker J. 2021. [Elucidating shark diets with DNA metabarcoding from cloacal swabs](#). *Molecular Ecology Resources*.

Prohaska B, **Talwar BS**, Grubbs RD. 2021. [Blood biochemical status of deep-sea sharks following longline capture](#). *Conservation Physiology*.

Talwar BS, Bouyoucos IA, Brooks EJ, Brownscombe JW, Suski CD, Cooke SJ, Grubbs RD, Mandelman JW. 2020. [Variation in behavioral responses of sub-tropical marine fishes to experimental longline capture](#). *ICES Journal of Marine Science*.

Talwar BS, Stein JA, Connett SMH, Brooks EJ. 2020. [Results of a fishery-independent longline survey targeting coastal sharks in the eastern Bahamas between 1979 and 2013](#). *Fisheries Research*.

Bouyoucos IA, **Talwar BS**, Brooks EJ, Brownscombe JW, Cooke SJ, Suski CD, Mandelman JW. 2018. [Exercise intensity while hooked is associated with physiological status of longline-captured sharks](#). *Conservation Physiology*.

Talwar BS, Mandelman JW, Brooks EJ, Grubbs RD. 2017. [Stress, post-release mortality, and recovery of commonly discarded deep-sea sharks caught on longlines](#). *Marine Ecology Progress Series*.

Shipley ON, Sweeting CJ, Olin JA, Brooks EJ, Barker S, Polunin NVC, Witt MJ, **Talwar BS**, Newman SP, Hussey NE. 2017. [Polar compounds preclude mathematical lipid correction of carbon stable isotopes in deep-water sharks](#). *Journal of Experimental Marine Biology & Ecology*.

Talwar BS, Bouyoucos IA, Shipley ON, Rummer J, Mandelman J, Brooks EJ, Grubbs RD. 2017. [Validation of a portable, waterproof blood pH analyzer for elasmobranchs](#). *Conservation Physiology*.

Shipley ON, **Talwar BS**, Grubbs RD, Brooks EJ. 2016. [Isopods associated with deepwater sharks *Squalus cubensis* and *Heptranchias perlo* from The Bahamas](#). *Marine Biodiversity*.

Talwar BS, Brooks EJ, Grubbs RD. 2016. [An assessment of post-release mortality for a commonly discarded deep-sea isopod using reflex impairment](#). *ICES Journal of Marine Science*.

Harborne A, **Talwar BS**, Brooks EJ. 2016. [The conservation implications of spatial and temporal variability in the diurnal use of Bahamian tidal mangrove creeks by transient predatory fishes](#). *Aquatic Conservation: Marine and Freshwater Ecosystems*.

Talwar BS, Harborne A, Brooks EJ. 2015. [The conservation implications of spatial and temporal variability in the use of Bahamian tidal mangrove creeks by transient predatory fishes](#). Extended abstract. In *Proceedings of the Mangroves as Fish Habitat Symposium*. American Fisheries Society.

O'Shea OR, Mandelman JW, **Talwar BS**, Brooks EJ. 2015. [Novel observations of an opportunistic predation event by four apex predatory sharks](#). *Marine & Freshwater Behaviour and Physiology*.

Policy Contributions:

Talwar BS, Smukall M, Schneider EVC. 2024. [The Bahamas](#). In: Jabado RW, AZA Morata, R Bennett, B Finucci, J Ellis, S Fowler, M Grant, APB Martins, and S Sinclair (Eds). *The Global Status of Sharks, Rays, and Chimaeras*. IUCN/SSC Shark Specialist Group. IUCN, Gland, Switzerland and Cambridge, UK.

Talwar BS. 2024. [Navassa Island](#). In: Jabado RW, AZA Morata, R Bennett, B Finucci, J Ellis, S Fowler, M Grant, APB Martins, and S Sinclair (Eds). *The Global Status of Sharks, Rays, and Chimaeras*. IUCN/SSC Shark Specialist Group. IUCN, Gland, Switzerland and Cambridge, UK.

Kiszka J, **Talwar BS**, Minton G, Collins T, Reeves R. 2018. [Cetacean bycatch in Indian Ocean tuna fisheries: recent updates and perspectives from the 13th Meeting of the Working Party on Ecosystems and Bycatch of the Indian Ocean Tuna Commission](#). International Whaling Commission Scientific Committee.

Talwar BS, Lent R, Berggren P, Hines E, Kiszka J, Henry L. 2018. [Marine Mammal Bycatch in Global Fisheries: A Workshop Summary of Mitigation Measures, Tools, & Solutions](#). *22nd Biennial Conference on the Biology of Marine Mammals*.

Kiszka J, **Talwar BS**. IOTC-WPEB13 2017. Report of the 13th Session of the IOTC Working Party on Ecosystems and Bycatch. Executive Summary: Cetaceans. San Sebastian, Spain.

IUCN Red List Status Reports:

Carlson, J, ... **Talwar, BS**, Crysler, Z, Pacoureau, N, Kyne, PM. 2021. [Carcharhinus perezi](#). The IUCN Red List of Threatened Species 2021: e.T60217A3093780.

Carlson, J, ... **Talwar, BS**. 2021. [Carcharhinus signatus](#). The IUCN Red List of Threatened Species 2021: e.T60219A3094326.

Carlson, J, ... **Talwar, BS**. 2021. *Rhizoprionodon terraenovae*. The IUCN Red List of Threatened Species 2021: e.T39382A124408927.

Carlson, J, ... **Talwar, BS**, Pollom, R. 2021. *Mustelus norrisi*. The IUCN Red List of Threatened Species 2021: e.T161518A890179.

Carlson, J, ... **Talwar, BS**, Pollom, R. 2021. *Mustelus canis*. The IUCN Red List of Threatened Species 2021: e.T39359A2908200.

Carlson, J, ... **Talwar, BS**, Crysler, Z, Derrick, D, Kyne, PM, Pacourea, N. 2021. *Carcharhinus acronotus*. The IUCN Red List of Threatened Species 2021: e.T161378A887542.

Carlson, J, ... **Talwar, BS**, Pollom, R, Pacourea, N, Dulvy, NK. 2021. *Ginglymostoma cirratum*. The IUCN Red List of Threatened Species 2021: e.T144141186A3095153.

Kyne, PM, Herman, K., **Talwar, BS**, Schneider, EVC. 2020. *Pristiophorus Schroederi*. The IUCN Red List of Threatened Species 2020: e.T60226A124453528.

Carlson, J, ... & **Talwar, BS**. 2020. *Bathytoshia centroura*. The IUCN Red List of Threatened Species 2020: e.T104065040A3122808.

Carlson, J, ... **Talwar, BS**, Dulvy, NK. 2020. *Urobatis jamaicensis*. The IUCN Red List of Threatened Species 2020: e.T60109A124438908.

Carlson, J, ... **Talwar, BS**, Pollom, R. 2020. *Myliobatis freminvillii*. The IUCN Red List of Threatened Species 2020: e.T161568A891226.

Carlson, J, ... **Talwar, BS**, Dulvy, NK. 2021. *Carcharhinus isodon*. The IUCN Red List of Threatened Species 2021: e.T161524A890428.

Carlson, J, ... **Talwar, BS**, Pollom, R. 2020. *Myliobatis goodei*. The IUCN Red List of Threatened Species 2020: e.T161436A888243.

SELECT PRESENTATIONS

Conference Presentations:

Talwar BS, McGill L, Sleugh T, Semmens B. Maintaining confidence in seafood of the Southern California Bight. DDT Technical and Community Meeting; 2024; CA.

Talwar BS, Semmens BX, Aires-Da-Silva A, Griffiths S, Humberstone J, Hutchinson M, Lopez J, Minte-Vera C, Ovando D, Román-Verdesoto M, Siu S, Bellquist LF. Informing the spatial management of Silky Shark in the Pacific Ocean. American Fisheries Society; 2024; HI.

Mulder T, Hanquiez V, **Talwar BS**, et al. Morphologie des pentes leeward et windward dans le système carbonaté des Bahamas. French Congress of Sedimentology; 2024; France.

Talwar BS, Semmens BX, Aires-Da-Silva A, Griffiths S, Humberstone J, Hutchinson M, Lopez J, Minte-Vera C, Ovando D, Román-Verdesoto M, Siu S, Bellquist LF. *Informing the spatial management of Silky Shark in the Pacific Ocean*. IATTC Working Group on Ecosystems and Bycatch; 2024; CA.

Talwar BS, Semmens BX, Aires-Da-Silva A, Humberstone J, Hutchinson M, Lopez J, Minte-Vera C, Ovando D, Sui S, Bellquist L. Informing the spatial management of Silky Shark (*Carcharhinus falciformis*) in the Eastern Pacific Ocean. 74th Tuna Conference; 2024; CA.

Hoffman A, Schneider EVC, Wade MW, **Talwar BS**. Environmental drivers of presence and abundance of epipelagic species in an oligotrophic basin. Gulf and Caribbean Fisheries Institute Conference; 2023; Nassau, The Bahamas.

Talwar BS, Carlson JK, Heithaus M. Movements of silky sharks in the western Atlantic Ocean. Gulf and Caribbean Fisheries Institute Conference; 2023; Nassau, The Bahamas.

Talwar BS, Carlson JK. Movements of silky sharks in the western Atlantic Ocean. ICCAT Shark Working Group Meeting; 2023; Virtual.

Talwar BS, Carlson JK, Bellquist L, Semmens BX, Heithaus M. Informing silky shark management in the western Atlantic and eastern Pacific Oceans. American Elasmobranch Society; 2023; VA.

Mulder T, Hanquiez V, **Talwar BS**. Morphology of the leeward and windward slopes of The Bahamas. French Geoscience Meeting; 2023; France.

Lee CS, Shipley ON, Xiayan Y, Gallagher AJ, Frisk MG, **Talwar BS**, Schneider EVC, Venkatesan AK. Accumulation of per- and polyfluoroalkyl substances (PFASs) by sharks from two contrasting habitats: New York Bight and The Bahamas. Goldschmidt Conference; 2023; Lyon, France.

Talwar BS, Anderson B, Avalos-Castillo CG, Blanco-Parra MDP, Briones A, Cardeñosa D, Carlson JK, Charvet P, Cotton CF, Crysler Z, Derrick DH, Heithaus MR, Herman KB, Koubrak O, Kulka DW, Kyne PM, Lasso-Alcalá OM, Mejía-Falla PA, Morales-Saldaña JM, Naranjo-Elizondo B, Navia AF, Pacourea

N, Peréz-Jiménez JC, Pollom RA, Rigby CL, Schneider EVC, Simpson N, Dulvy NK. Extinction risk, reconstructed catches, and management of chondrichthyan fishes in the Western Central Atlantic Ocean. FIU Biology Biosymposium; 2022; FL; & American Elasmobranch Society; 2022; WA.

Talwar BS, Schneider E. [Exuma Sound Ecosystem Research Project](#). Bahamas National Natural History Conference, Virtual; 2020.

Kessel ST, Gittens L, **Talwar BS**, Moe BJ, Grubbs RD. Tongue of the Ocean deep-sea survey of fish and invertebrates around New Providence. Bahamas National Natural History Conference, Virtual; 2020.

Talwar BS, Stein J, Connell S, Brooks EJ. Measuring the long-term effectiveness of shark conservation efforts in The Bahamas Shark Sanctuary. Bahamas Natural History Conference; 2018; Bahamas.

Talwar BS, Mandelman JW, Brooks EJ, Grubbs RD. Post-release mortality of deep-sea sharks. ICES Annual Science Conference; 2017; FL.

Talwar BS, Bouyoucos IA, Brownscombe J, Cooke SJ, Suski CD, Brooks EJ, Mandelman JW. Comparative behavioral response to longline capture. American Elasmobranch Society; 2017; TX.

Talwar BS, Van Eopel E, Mandelman JW, Brooks EJ, Grubbs RD. Post-release behavior and recovery of deep-sea sharks after longline capture. Southeastern Ecology & Evolution Conference; 2016; FL.

Talwar BS, Mandelman JW, Brooks EJ, Gokgoz A, Grubbs RD. Stress and post-release survivorship of Cuban dogfish and gulper sharks caught on longlines. American Elasmobranch Society; 2015; NV.

Talwar BS, Brooks EJ, Grubbs RD. Post-release survivorship of deep-sea sharks in Exuma Sound, Bahamas. FSU Coastal & Marine Lab Symposium; 2015; FL, USA.

Talwar BS, Brooks EJ, Grubbs RD. Deep-sea sharks in Exuma Sound: diversity & vulnerability. Bahamas Conservation Symposium; 2015; Exuma, The Bahamas.

O'Shea O, Brooks EJ, **Talwar BS**, Mandelman J. Hierarchical predation behavior in four marine apex predators. American Elasmobranch Society Meeting; 2014; TN, USA.

Talwar BS, Harborne A, Brooks EJ. Conservation implications of variability in the use of mangrove creeks by transient predatory fishes. AFS Western Division Meeting; 2014; Mazatlán, Mexico.

Mandelman JW, Brooks EJ, Suski CD, **Talwar BS**, LaBella RP, Sanford TH, Cooke SJ. Does on hook behavior modulate the physiological status of longline-caught sharks? American Elasmobranch Society; 2013; NM, USA.

Talwar BS. Invasive lionfish habitat use and prey selection in the Turks and Caicos. Department of Environment and Coastal Resources Conference for Sustainability; 2010; South Caicos, TCI.

Academic Seminars:

Talwar BS. Tracing connections between people and predators. UC-San Diego, Scripps Institution of Oceanography, Institutional Seminar Series. 2025; San Diego, CA, USA.

Talwar BS. Fisheries ecology of threatened sharks. UC-San Diego, Scripps Institution of Oceanography, Undergraduate Seminar Series. 2024; San Diego, CA, USA.

Talwar BS. From the desert to the deep-sea: science towards responsible management. Michigan State University Extension Wild Spartan Series. 2024; Virtual.

Talwar BS. The story of the silky shark: biology and management from the shelf-edge to the high seas. Scripps Institution of Oceanography; Marine Biology Seminar Series. 2024; La Jolla, CA, USA.

Talwar BS. Fisheries Ecology of Threatened Sharks in the Western Central Atlantic Ocean. Michigan State University, Marine Biology. 2023; Virtual.

Talwar BS. Informing Silky Shark Management in the Western Atlantic and Eastern Pacific Oceans. Save Our Seas Distinguished Speaker Series; Museum of Discovery and Science. 2023; Miami, FL, USA.

Talwar BS. Fisheries Ecology of Threatened Sharks in the Western Central Atlantic Ocean. UC-San Diego, Scripps Institution of Oceanography, Ecology Seminar Series. 2023; La Jolla, CA, USA.

Talwar BS. Shark Research: Informing Management in the Bahamas Shark Sanctuary. University of New England, Marine Science Seminar Series. Virtual; 2021.

Talwar BS. Informing Management within a Shark Sanctuary. University of Plymouth, School of Biological and Marine Sciences, Marine Ecology. Virtual; 2021.

Talwar BS. Using BRUVs to Study Sharks, Sharks4Kids Webinar Series. Virtual; 2020.

Talwar BS, Mandelman JW, Brooks EJ, Grubbs RD. Discard mortality of deep-sea sharks. NOAA Seminar Series; 2017; MD, USA.

Talwar BS. Tackling bycatch: research, policy, and the future. George Washington University,

Department of Biology, Marine Ecology. 2017; Washington, D.C., USA.

Talwar BS, Mandelman JW, Brooks EJ, Grubbs RD. Predicting the fate of deep-sea fisheries bycatch. Monmouth University Department of Biology. 2017; NJ, USA.

Talwar BS, Mandelman JW, Brooks EJ, Grubbs RD. Predicting the fate of deep-sea fisheries bycatch. FSU Department of Biological Science, Ecology & Evolution Departmental Seminar. 2015; FL, USA.

Conference Posters:

Talwar BS, Bouyoucos IA, Brownscombe J, Cooke SJ, Suski CD, Brooks EJ, Mandelman JW. Comparative behavioral and physiological response to longline capture in sharks. Indo-Pacific Fish Conference; 2017; Tahiti, French Polynesia.

Talwar BS, Perry T. Metapopulation implications of resident cougars in narrow riparian habitats in New Mexico. Association of Southeastern Biologists; 2011; AL, USA.

Perry T, Anderson A, Pittman M, **Talwar BS**, Upton B. Exclusive Use of Riparian Habitat by a Population of Puma in Central New Mexico. The 10th Mountain Lion Workshop; 2011; MT, USA.

MENTORSHIP

Committee Service:

Allerton, AJ. Reduction in marine mammal bycatch in US fisheries from 1990 to 2017. MSc, University of York. 2020.

Sanchez, A. Shark Conservation in San Diego, California. Master's of Advanced Studies, MAS, University of California – San Diego. 2024.

Hoffman, A. Uncovering the environmental drivers of pelagic faunal presence using boat-based transect surveys in the Exuma Sound, The Bahamas. BSc, Colorado College. 2020.

Supervisor:

Over 50 Research Interns and Assistants at Cape Eleuthera Institute, Marine Mammal Commission, Florida State University, & Scripps Institution of Oceanography at University of California San Diego

SERVICE

IUCN Species Survival Commission Shark Specialist Group, Member, 2021–2029

American Elasmobranch Society, Nominating Committee, 2024, 2025

NOAA Sea Grant Knauss Fellowship, Reviewer, 2023

NOAA NMFS-Sea Grant Population and Ecosystems Dynamics Fellowship, Reviewer, 2022

Task Force for Drafting the WECAFC RPOA-Sharks, Member, 2021–2022

Journal Reviewer:

- Journal of Fish Biology
- ICES Journal of Marine Science
- Fisheries Research
- Conservation Physiology
- Environmental Biology of Fishes
- Marine Biology
- Reviews in Fish Biology and Fisheries
- Marine Environmental Research
- Frontiers in Marine Science
- Marine Ecology Progress Series

PUBLIC ENGAGEMENT

Television

- Netflix's [All the Sharks](#), 2025
 - Winning contestant on 6-part competition series to photograph sharks & rays, #1 in Netflix Family across 60 countries
 - Co-owner of [Shark Docs](#), LLC, leveraging visibility to support shark conservation globally through social media ([Instagram](#), [Youtube](#)), podcasting ([Beyond All the Sharks](#)), collaborative [merchandise](#) campaigns, and extensive [outreach](#) across media channels
- Other Television clients (footage or featured):
 - *Oceanic Whitetip: Ruler of the Deep*, Pangolin Pictures, National Geographic (2021)
 - *Tiger Shark Abyss*, Anomaly Entertainment, Discovery Channel Shark Week (2020)
 - *Forecast: Shark Attack*, Red Rock Films, National Geographic (2019)
 - *Sharkwrecked*, Big Wave Productions, Discovery Channel Shark Week (2018)
 - *Monster Tag*, Propagate Shows, Discovery Channel Shark Week (2018)
 - *Alien Sharks*, Discovery Studios, Discovery Channel Shark Week, (2016, 2018)
 - *Strange Evidence*, WagTV, Science Channel (2018)

Community Presentations & Panels:

- Over [100](#) volunteer presentations for all ages on various marine science topics, e.g.,
 - Shark Research Methodologies, Scripps Undergraduate Seminar (2024)
 - Birch Aquarium Meet-a-Scientist Summer Series (2023, 2024, 2025)

- UC – San Diego Osher Lifelong Learning. 2026; San Diego, CA.
- [Tracing connections between people & predators](#). Coronado Rotary Club. 2025; San Diego, CA.
- [JAWS at 50 with Wendy Benchley](#). Birch Aquarium. 2025; San Diego, CA.
- [Tracking Shark and Ray Sightings Across the Caribbean: Insights from decades of citizen science data](#). Reef Environmental Education Foundation's REEF Fest. 2025; Key Largo, FL.
- All the Sharks: Celebrating Oceans of Abundance, [Tides of Change: Exploring Ocean Science, Conservation & Community Action](#). Laguna Ocean Foundation. 2025; Laguna Beach, CA.

Film (Writer, Creator):

- [The Story of Sharks](#)
 - French Federation of Film/Video Special Jury Award, Festival Mondial de L'Image Sous Marine
 - Finalist- Beneath the Waves Film Festival (2012–2014), BLUE Ocean Film Festival, Animal Film Festival in Suncheon, Miami Underwater Festival
- [Eating the Enemy: Death to Lionfish](#)
 - Beneath the Waves Film Festival (2015)
- [U.S. Marine Mammal Commission](#) (organizational 'about us' video)
- [Wild & Scenic Film Festival](#), Lead organizer, Tallahassee, FL, 2014
 - Raised \$2000 to bring students to the FSU Marine Lab for free marine science field excursions

Media and Public Involvement:

- Engagement:
 - Over **500** international students engaged in field research (2014–2022)
 - Crowdfunding/blog writing: **105** donors engaged in the scientific process. Details [here](#).
 - Save Our Seas blog [here](#).
 - Cape Eleuthera Institute blog and newsletter contributor. Example [blog](#).
- Online Content:
 - Radio/Podcast:
 - Ed Fields Live, Nassau, The Bahamas (2019)
 - Editorial (authored):
 - [Studying Silky Sharks in the Western Atlantic](#), IUCN Shark News, Issue 2 (2021)
 - [Not Too Many, Not Too Few – Eleutheran shark populations stable after 30 years of successful conservation](#), The Eleutheran, p. 18 (2020)
 - [CEI Shark Research in Haiti](#), The Eleutheran, p. 23 (2020)
 - [Exploring the Mysteries of the Deep](#), The Eleutheran, p. 35 (2018)
 - Discovering Life in the Deep, The Eleutheran, p. 24 (2015)
 - Editorial (featured):
 - [Q&A With Early Career Researchers](#), IUCN Shark News, Issue 8 (2023)
 - [Unexpected Visitors in the Exuma Sound](#), The Eleutheran, p. 16 (2020)
 - [Pelagic fisheries research in The Bahamas](#), The Eleutheran, p. 27 (2020)
 - [Bahamas Praised for Shark Conservation Leadership](#), Eyewitness News Bahamas (2020)
 - Coverage of expeditions as PI while onboard OceanX's MV Alucia:
 - Describing a new species of isopod: [SBU](#), [Earth](#), [Phys](#)
 - [Something different: Rare video shows courtship ritual of threatened sharks](#), USA Today (2023)
 - [Mesmerizing mating ritual of whitetip sharks caught on camera for the first time](#), IFLScience (2023)
 - Tagging a bluntnose sixgill shark from a submersible: [LiveScience](#), [Newsweek](#), [Business Insider](#), [Fox News](#), [OceanX](#), [Panama City News Herald](#), [University of Florida](#), [Science Alert](#), [AOL](#), [Mashable](#), [National Geographic](#) (2019)
 - [Underwater tech unlocks the secrets of The Bahamas' Exuma Sound](#), Mongabay (2018)
 - [Dying creatures make it snow deep underwater, and its beautiful](#), Mashable (2018)
 - [Fearless Science](#), University of Florida News (2018)
 - [Into the Deep](#), The Bahamas Tribune (2019)
 - [Attack Shadow on Shark Conservation](#), The Bahamas Tribune (2019)
 - [To Catch a Tiger](#), GearPatrol (2013)
- Video – from OceanX Alucia Expeditions (2018-2019)
 - [Submarine Diving with Giant Deep-Sea Sharks](#)
 - [Meet Haiti's Baby-faced Shark Guardian](#)
 - [Finding Baby Oceanic Whitetip Sharks To Save Them From Extinction](#)
 - [Coverage of expeditions](#) (CEI in-house productions)

FUNDING & AWARDS

	Amount
Fellowships	
NOAA Sea Grant Knauss Fellowship	\$56,500
Florida International University Dissertation Year Fellowship	\$16,600
Florida International University Dissertation Evidence Acquisition Fellowship	\$8,300
Research Grants & Contracts	
OceanX / One Big Wave Grant: Exploring Deepwater Communities of Exuma Sound (co-PI)	\$500,000
Dalio Grant for Innovation	\$25,000
New England Aquarium / Consortium for Wildlife Bycatch Reduction	\$18,850
OceanX / One Big Wave Follow-Up Grant: Oceanic Whitetip Shark Ecology (co-PI)	\$11,050
Experiment.com Crowdfunding Grant	\$6,545
Save Our Seas Foundation Small Grant	\$6,000
PADI Foundation Research Grant	\$6,000
National Geographic Explorer's Early Career Grant	\$5,000
Explorer's Club OceanX Grant	\$5,000
Guy Harvey Ocean Foundation Scholarship Award	\$5,000
Florida International University Tropics Grant	\$4,000
Cape Eleuthera Institute Excellence in Research	\$2,500
New England Aquarium Research Grant	\$2,000
Forrestal International Travel Award	\$1,500
Zoo Miami Conservation Fund Grant	\$1,200
Cape Eleuthera Institute Educational Opportunity Grant	\$1,000
FSU Coastal & Marine Lab Scholarship	\$1,000
Sigma Xi Grant-In-Aid of Research (2014 & 2021)	\$2,000
Awards	
Guy Harvey Ocean Foundation Scholarship Award (2014 & 2019)	\$10,000
American Elasmobranch Society Travel Award (2014 & 2022)	\$1,000
FSU Congress of Graduate Students Presentation Grant	\$700

MISCELLANEOUS

Certifications:

- PADI Divemaster, AAUS Scientific Diver, NAUI Skin Diving Instructor, RYA Powerboat Level II, DAN Diving First Aid for Professional Divers (CPR, First Aid, Emergency Oxygen)

Professional Affiliations

- American Elasmobranch Society 2014–2025, Marine Mammal Society 2017–2018, Florida Marine Science Educator's Association 2012–2014, Gulf and Caribbean Fisheries Institute 2023

Language Proficiency

- English (fluent), Spanish (limited)

REFERENCES

Dr. Brice Semmens, Professor, Scripps Institution of Oceanography at UCSD (Postdoc advisor)
Dr. Lyall Bellquist, Fisheries Scientist, TNC California Oceans Program (Postdoc advisor)
Dr. Michael Heithaus, Dean, College of Arts & Sciences, Florida International University (PhD advisor)
Dr. Dean Grubbs, Associate Dir. of Research, Coastal & Marine Lab, Florida State University (MSc advisor)
Dr. Pedram Daneshgar, Professor, Monmouth University (Co-instructor, field courses)
Dr. Edward Brooks, Chief Operating Officer, Cape Eleuthera Island School (Field station advisor)
