

# Lyall F. Bellquist, Ph.D.

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## Positions

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2018 – 2025	Visiting Scholar, Scripps Institution of Oceanography, University of California San Diego
2017 – 2024	Senior Fisheries Scientist, The Nature Conservancy, California Oceans Program, San Diego
Jul 2015 – Jan 2017	Postdoctoral Researcher, National Research Council NOAA Southwest Fisheries Science Center, La Jolla Fisheries Resources Division

## Education

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Jun 2015	Scripps Institution of Oceanography University of California San Diego Ph.D. Marine Biology (focus: marine fisheries)
May 2006	California State University Long Beach M.S. Biology (focus: marine ecology/fisheries)
Dec 2002	University of California Santa Barbara B.S. Aquatic Biology (focus: marine ecology)

## Publications

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Elstner, J., L. Bellquist, J. Wilson, F. Hurd, D. Yocum, C. Schmuckal, M. Gleason, T. Dempsey, K. Kauer, J. Humberstone, A. Jackson, B.X. Semmens. 2025. Ocean Ruler – an image-based, AI-driven approach to small-scale fisheries monitoring and catch size estimation. *Marine Biology* 172: 90. <https://doi.org/10.1007/s00227-025-04650-3>

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Talwar, B.S., B.X. Semmens, A. Aires-Da-Silva, S. Griffiths, J. Humberstone, M. Hutchinson, J. Lopez, C. Minte-Vera, D. Ovando, M. Román-Verdesoto, S. Siu, L.F. Bellquist. 2025. Informing

the spatial management of Silky Shark (*Carcharhinus falciformis*) in the Eastern Pacific Ocean. Reviews in Fish Biology and Fisheries 35: 1031-1062. <https://doi.org/10.1007/s11160-025-09948-5>

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Frawley, T., M. Provost, L. Bellquist, N. Ben-Aderet, H. Blondin, S. Brodie, M. Pozo Buil, M. Jacox, S. Bograd, E. L. Hazen, H. McGonigal, K. Ramey. 2025. A Collaborative Climate Vulnerability Assessment of California State Managed Fishery Species. PLOS Climate 4(2): e0000574. <https://doi.org/10.1371/journal.pclm.0000574>

Wang, M., S. Aalbers, R. De Guzman, C. Villafana, K. Kauer, L. Bellquist, and C. Sepulveda. 2024. Electronic monitoring performance in a developing deep-set fishery for swordfish off California. Marine Fisheries Review 85 (1-4). <https://doi.org/10.7755/MFR.85.1-4.6>

Mason, E.J., Riecke, T.V., Bellquist, L., Pondella, D., Semmens, B. 2024. Recruitment limitation increases susceptibility to fishing-induced collapse in a spawning aggregation fishery. Marine Ecology Progress Series 738: 203-224. <https://doi.org/10.3354/meps14601>

Coscino, C., L. Bellquist, W. Harford, B.X. Semmens. 2024. Influence of life history characteristics on data-limited stock status assertions and minimum size limit evaluations using Length-Based Spawning Potential Ratio (LBSPR). Fisheries Research 276: 107036. <https://doi.org/10.1016/j.fishres.2024.107036>

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Blincow, K.M., J.T. Elstner, A.P. Nosal, N. Ben-Aderet, L. Bellquist, and B.X. Semmens. 2023. Spatial ecology of the Giant Seabass (*Stereolepis gigas*) in a southern California kelp forest as determined by acoustic telemetry. PeerJ 11: e16551. <https://doi.org/10.7717/peerj.16551>

Gilman, E., M. Chaloupka, L. Bellquist, H. Bowlby, N. Taylor. 2024. Individual and fleetwide bycatch thresholds in regional fisheries management. Reviews in Fish Biology and Fisheries 34: 253-270. <https://doi.org/10.1007/s11160-023-09811-5>

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<https://doi.org/10.1016/j.ecoinf.2022.101599>

Bonito, L., Bellquist, L., Jackson, A.M., Kauer, K., Gleason, M.G., Wilson, J.W., Sandin, S. 2022. U.S. Exempted Fishing Permits: Role, Value, and Lessons Learned for Adaptive Fisheries Management. *Marine Policy* 138: 104992. <https://doi.org/10.1016/j.marpol.2022.104992>

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Bellquist, L.F. 2015. A historical perspective of California recreational fisheries using a new database of “trophy” fish records (1966-2013), combined with fisheries analyses of three species in the genus *Paralabrax*. Doctoral dissertation, University of California, San Diego. <https://www.proquest.com/openview/5d8d4328e19a0fd2a08d63242637df17/1?pq-origsite=gscholar&cbl=18750>

Lowe, C.G., K.M. Anthony, E.T. Jarvis, L.F. Bellquist, and M.S. Love. 2009. Site fidelity and movement patterns of groundfish associated with offshore petroleum platforms in the Santa Barbara Channel. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* 1: 71-89. <https://doi.org/10.1577/C08-047.1>

Bellquist, L.F., C.G. Lowe, and J.E. Caselle. 2008. Fine-scale movement patterns, site fidelity, and habitat selection of ocean whitefish (*Caulolatilus princeps*). *Fisheries Research* 91(2-3): 325-335. <https://doi.org/10.1016/j.fishres.2007.12.011>

Bellquist, L.F. 2006. Movement patterns and habitat selection of ocean whitefish, *Caulolatilus princeps*, in a southern California marine reserve. M.S. Thesis, California State University, Long Beach. <https://www.proquest.com/openview/46816f9949d176f0af8b84dac345e524/1?pq-origsite=gscholar&cbl=18750&diss=y>

## **Abstracts**

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Candelmo, A., B.X. Semmens, S. Heppell, D. Heppell, J. Byrd, C. Collier, C. Pattengill-Semmens, C. Crutchfield, N. Hui, R. Kastner, J. Dorton, K. Hu, L. Bellquist. 2024. Fisheries science with a SMILE. American Fisheries Society, Honolulu, Hawaii.

Talwar, B.S., B.X. Semmens, A. Aires-Da-Silva, D. Bradley, J. Humberstone, M. Hutchinson, J. Lopez, C. Minte-Vera, D. Ovando, S. Siu, L.F. Bellquist. 2024. Informing the spatial management of silky sharks *Carcharhinus falciformis* in the Eastern Pacific Ocean. American Fisheries Society, Honolulu, Hawaii.

Moore, P., S. Lomonico, L. Bellquist, K. Kauer, F. Hurd. 2024. FishKit: Interactive Analysis Tools for Common Management Options in Small-Scale Fisheries. American Fisheries Society, Honolulu, Hawaii.

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Siddall, A., K. Franke, S. Crooke, S. Williams, G. DiNardo, D. Sweetnam, H. Dewar, K. James, O. Snodgrass, E. Hellmers, M. Monk, L. Bellquist. 2024. Over a decade of collaboration between the Sportfishing Association of California (SAC), NOAA Southwest Fisheries Science Center (SWFSC), and the California Department of Fish and Wildlife (CDFW). The Tuna Conference, Lake Arrowhead, CA.

Aalbers, S., M. Wang, C. Villafana, K. Kauer, L. Bellquist, and C. Sepulveda. 2024. Electronic monitoring performance in a developing deep-set fishery for swordfish off California. The Tuna Conference, Lake Arrowhead, CA.

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Stohs, S., K. Harmon, C. Sepulveda, L. Bellquist. 2024. Bayesian estimation of catch performance in novel fishing methods. The Tuna Conference, Lake Arrowhead, CA.

Ruttenberg, B., D. Wendt, E. Johnston, A. Pasulka, J. Gilbert, R. Walter, S. Hamilton, S. Ziegler, N. Spindel, R. Brooks, R. Starr, B. Semmens, L. Bellquist, T. Mulligan, A. Buchheister, J. Marin Jarrin, S. Jorgensen, J. Caselle, C. Pasparakis, and S. Morgan. 2024. MPAs, fishing, and ocean climate: applications of collaborative fisheries research in California. California Cooperative Oceanic and Fisheries Investigations, San Diego, CA.

Gong, A.Y., Nosal, A.P., Cartamil, D., Anderson, J., Bellquist, L., Ben-Aderet, N., Blincow, K., Burns, E.S., Freedman, R., Logan, R., Lowe, C.G., Semmens, B., Stirling, B., White, C., Hastings, P. 2024. Migration, aggregation, and philopatry of two nearshore elasmobranch species in the Southern California Bight. Minorities in Shark Science (MISS) Research Summit, Society for Integrative and Comparative Biology, Seattle, WA.

Hurd, F., P. Moore, L. Bellquist, K. Kauer. 2024. FishKit: Interactive analysis tools for common management options in small-scale fisheries. World Fisheries Congress, Seattle, WA.

Melnychuk, M.C., C.E. Ashbrook, R.J. Bell, L. Bellquist, K. Kauer, J. Wilson, R. Hilborn, and J. Odell. 2024. Characterizing state-managed and unmanaged fisheries in coastal marine states and territories of the United States. World Fisheries Congress, Seattle, WA.

Norman, K., R. Selden, A. Phillips, M. Burden, J. Samhouri, C. Harvey, O. Liu, I. Kaplan, L. Bellquist, A. Beaudreau, K. Andrews, M. Haltuch, A. Harley, B. Feist, and C. Lewis-Smith. 2023. Towards a rubric for defining 'groundfish fishing communities': lessons from stakeholders on community. ICES Annual Science Conference, Bilbao, Spain.

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Dewar, H., K. James, M. Horezcko, A. Siddall, L. Bellquist, O. Snodgrass, and B. Erisman. 2023. Length-Weight Relationships for Pacific Bluefin Tuna (*Thunnus orientalis*) in the Eastern Pacific Ocean. The Tuna Conference, Lake Arrowhead, California.

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Jarvis-Mason, E.T., L. Bellquist, B. Semmens. 2019. Twenty-five years of tag and recapture data: insights into the population status and recovery of an iconic century-old sport fishery. 100<sup>th</sup> Ann. Western Society of Naturalists. Ensenada, Baja California, Mexico.

Tyburczy, J., S. Morgan, D. Wendt, L. Bellquist, B. Semmens, B. Ruttenberg, J. Caselle, T. Mulligan, J. Chiu, S. Hamilton, and R. Starr. 2019. The California Collaborative Fisheries Research Program: a statewide partnership among scientists, managers, and recreational and professional fishermen and women. American Fisheries Society Ann. Conference. Reno, Nevada.

Siddall, A., L. Bellquist, J. Childers, and S. Crooke. 2019. Recreational fisheries data collection for tunas led by the Sportfishing Association of California (SAC). 70<sup>th</sup> Ann. Mtg. Tuna Conference, Lake Arrowhead, CA.

Bellquist, L., S. Lomonico, J. Wilson, F. Hurd, M. Merrifield, T. Dempsey, and M. Gleason. 2018. Integrating technological innovation with citizen science to improve climate-ready management of the California recreational Red Abalone (*Haliotis rufescens*) fishery. TNC Global Science Gathering. Houston, Texas.

Harford, B., A. Jackson, J. Wilson, L. Bellquist, J. Prince, F. Hurd, N. Dowling, J. Likins. 2018. A collaborative management strategy for red abalone in California. California Fish and Game Commission meeting. Sacramento, California.

Semmens, B. and L. Bellquist. 2018. Building CalCOFI's Cooperative: Implementing a portfolio of technology-assisted fisheries citizen science projects in California. California Marine Protected Area Technology Workshop. La Jolla, California.

Bellquist, L., S. Beyer, J. Hyde, N. Wegner. 2018. Effectiveness of descending devices to mitigate the effects of barotrauma among rockfishes (*Sebastes* spp) in southern and central California recreational fisheries. 20<sup>th</sup> Western Groundfish Conference, Seaside, California.

Siddall, A., N. Wegner, D. Demer, L. Bellquist. 2018. Collaborative groundfish research supported by the Sportfishing Association of California: descending devices, cowcod mortality estimates, and acoustic-optical surveys. 20<sup>th</sup> Western Groundfish Conference, Seaside, California.

Waltz, G.T., L. Bellquist, J. Caselle, J. Chiu, C. Dibble, R. Fields, C. Honeyman, I. Kelmartin, E. Mason, S. Morgan, T. Mulligan, E. Satterthwaite, B. Semmens, R.M. Starr, J. Stanton, J. Tyburczy, and D.E. Wendt. 2018. Statewide expansion of the California Collaborative Fisheries Research Program. 20<sup>th</sup> Western Groundfish Conference, Seaside, California.

Kauer, K., M. Gleason, J. Sullivan, L. Bellquist, A. Rubinstein, D. Oberhoff, L. Damrosch, M. Norvell, M. Bell. 2018. Reducing bycatch through a risk pool: a case study of the U.S. west coast groundfish fishery. 20<sup>th</sup> Western Groundfish Conference, Seaside, California.

Bellquist, L., K. Kauer, and M. Gleason. 2017. Using Exempted Fisheries Permits (EFPs) to advance collaborative research, gear alternatives, and monitoring in California fisheries. MREP Workshop, Santa Cruz, CA.

Siddall, A. and L. Bellquist. 2017. Recreational fisheries data collection led by the Sportfishing Association of California (SAC). World Recreational Fisheries Conference, Victoria, British Columbia.

Nosal, AP, D.P. Cartamil, C.H. Lam, L.F. Bellquist, N.J. Ben-Aderet, C.F. White, R.K. Logan, R.M. Freedman, C.G. Lowe, B.X. Semmens, P.A. Hastings. 2017. Movement Ecology of the Soupfin Shark (*Galeorhinus galeus*) in the Eastern North Pacific. International Conference on Fish Telemetry, Cairns, Australia.

Wegner, N., L. Bellquist, A. P. Nosal, P. A. Hastings, and J. Hyde. 2016. Post-release survival and behavior of two deep-dwelling rockfishes (Cowcod, *Sebastes levis*, and Bocaccio, *S. paucispinis*) suffering from barotrauma: using recompression devices to reduce bycatch mortality. Western Groundfish Conference, Newport, Oregon.

Bellquist, L.F. and B.X. Semmens. 2015. Integrating cooperative fisheries research and the La Jolla acoustic array: Population analyses of two species in the genus *Paralabrax*. Ann. Mtg. California Cooperative Oceanic Fisheries Investigations, Moss Landing, CA.

Bellquist, L.F., J. Graham, B.X. Semmens. 2014. Long-term dynamics of trophy-sized pelagic fishes based on a new California recreational fisheries database (1966-2013). Ann. Mtg. Tuna Conference, Lake Arrowhead, CA.

Lowe, C.G., K.M. Anthony, E.T. Jarvis, L.F. Bellquist, and M.S. Love. 2009. Site fidelity patterns of groundfishes associated with platforms in the Santa Barbara Channel. Southern California Academy of Sciences. Marymount College, Rancho Palos Verdes, CA.

Bellquist, L.F., M.A. Shane, and M.A. Drawbridge. 2007. Validated age, growth, and otolith morphology of white seabass, *Atractoscion nobilis*, from the Southern California Bight: Preliminary Results. Ann. Mtg. Western Society of Naturalists. Ventura, CA.

Lowe, C.G., T. Mason, L. Bellquist, D. Topping, B. Hight, and J. Caselle. 2007. What do we know about movement patterns and habitat use of rocky reef associated gamefishes and why is it essential for MPA design? President's Symposium, Ann. Mtg. Western Society of Naturalists. Ventura, CA.

Anthony, K., C.G. Lowe, E.T. Jarvis, L.F. Bellquist, and M.S. Love. 2007. Site fidelity and movements of oil platform-associated fishes in the Santa Barbara Channel. Ann. Mtg. American Fisheries Society. San Francisco, CA.

Lowe, C.G., K. Anthony, T. Mason, L. Bellquist, D. Topping, B. Hight, and J. Caselle. 2007. Using acoustic telemetry to quantify movement patterns, habitat use, and optimize MPA design for gamefishes. Ann. Mtg. American Fisheries Society. San Francisco, CA.

Bellquist, L.F., C.G. Lowe, and J.E. Caselle. 2005. Movement patterns and habitat use of ocean whitefish, *Caulolatilus princeps* (Malacanthidae), in a Santa Catalina Island marine reserve. Ann. Mtg. Southern California Academy of Sciences. Los Angeles, CA.

Bellquist, L.F., C.G. Lowe, and J.E. Caselle. 2005. Movement patterns, home range, site fidelity, and habitat preference of ocean whitefish (Malacanthidae), in a Santa Catalina Island marine reserve. Ann. Mtg. Western Society of Naturalists. Monterey, CA Nov.

Lowe, C.G., E. Jarvis, K. Anthony, L. Bellquist, B. Hight, M. McCrea, M. Love, and A. Scarborough-Bull. 2005. Site fidelity and emigration of fishes tagged at offshore petroleum platforms off southern California. Ann. Mtg. Western Society of Naturalists. Monterey, CA.

Bellquist, L.F., C.G. Lowe, and J.E. Caselle. 2005. Movement patterns and habitat preference of ocean whitefish (Malacanthidae), in a Santa Catalina Island marine reserve. Ann. Mtg. American Fisheries Society. Anchorage, AK.

Lowe, C.G., L. Bellquist, D. Topping, E. Jarvis, K. Anthony, B. Ziegler. 2005. Using acoustic telemetry for catch and release survivorship and site fidelity of rockfishes on oil platforms off California. Ann. Mtg. American Fisheries Society. Anchorage, AK.

Bellquist, L.F., C.G. Lowe, and J.E. Caselle. 2004. Movement patterns and habitat use of ocean whitefish, *Caulolatilus princeps* (Malacanthidae), in a Santa Catalina Island marine reserve. Ann. Mtg. Western Society of Naturalists. Sonoma, CA.

## **Reports/Datasets**

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Johnston, E.M., R.O. Brooks, S.L. Ziegler, N.B. Spindel, R.M Starr, D.E. Wendt, B.I. Ruttenberg, L. Bellquist, A. Buchheister, J. Caselle, J. Marin-Jarrin, T. Mulligan, C. Pasparakis, B.X. Semmens, S.L. Hamilton (2024). Nearshore fishes abundance and distribution data, California Collaborative Fisheries Research Program (CCFRP), 2007-2023. *California Ocean Protection Council Data Repository*. doi:10.25494/P6901R.

<https://opc.dataone.org/view/urn%3Auuid%3A9c0c12a8-89f5-43e0-adfa-6b16a77b4757>

Brooks, R.O., E.M. Johnston, S.L. Ziegler, R.M Starr, D.E. Wendt, B.I. Ruttenberg, L. Bellquist, A. Buchheister, J. Caselle, J. Marin-Jarrin, T. Mulligan, C. Pasparakis, B.X. Semmens, S.L. Hamilton (2023). Nearshore fishes abundance and distribution data, California Collaborative Fisheries Research Program (CCFRP), 2007-2022. *California Ocean Protection Council Data Repository*. doi:10.25494/P6901R. <https://search.dataone.org/view/urn%3Auuid%3A61666316-b1dd-401b-a3f9-41cdc2e0dae4>

Brooks, R.O., S.L. Ziegler, R.M Starr, D.E. Wendt, B.I. Ruttenberg, L. Bellquist, J. Caselle, S. Morgan, T. Mulligan, B.X. Semmens, J. Tyburczy, S.L. Hamilton (2022). Nearshore fishes abundance and distribution data, California Collaborative Fisheries Research Program (CCFRP), 2007-2021. *California Ocean Protection Council Data Repository*. doi:10.25494/P6901R. <https://search.dataone.org/view/urn%3Auuid%3Af843f110-e691-4d26-bf12-3854a4b641cd>

Hamilton, S., Starr, R., Wendt, D., Ruttenberg, B., Caselle, J., Semmens, B., Bellquist, L., Morgan, S., Mulligan, T., Tyburczy, J., R. Brooks, Waltz, G., Mason, E., Honeyman, C., Small, S., Stanton, J., and Ziegler, S. 2022. California Collaborative Fisheries Research Program (CCFRP) – monitoring and evaluation of California Marine Protected Areas. California Sea Grant marine protected area long term monitoring program final reports 2019-2021. R/MPA-45. [https://caseagrant.ucsd.edu/sites/default/files/CCFRP%20Final%20Report\\_Final.pdf](https://caseagrant.ucsd.edu/sites/default/files/CCFRP%20Final%20Report_Final.pdf)

Free, C., C. Vargas Poulsen, and L. Bellquist. 2021. The CALFISH database: open-sourcing a century of California's non-confidential fisheries landings and participation data. Dryad, Dataset, <https://doi.org/10.25349/D9M907>

Lowe, C.G., K.M. Anthony, E.T. Jarvis, L.F. Bellquist, and M.S. Love. 2006. Site fidelity of characteristic fish species at offshore petroleum platforms in the Santa Barbara Channel. MMS OCS Study 2004-2007 Annual Report. California State University Long Beach, Long Beach, California. MMS Cooperative Agreement Number 1435-01-04-CA-34196.

## **Teaching Experience**

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Jan 2021 – Mar 2021	Key Contributor: Scripps Institution of Oceanography SIO 286: Marine Science, Economics, and Policy: Marine Protected Areas
Feb 2020	Invited Lecturer: Scripps Institution of Oceanography SIO 87: Perspectives in Marine Biodiversity and Conservation
Mar 2019	Invited Lecturer: San Diego State University Coastal & Marine Institute, MEBSA “The Nature Conservancy: science for conservation in California fisheries”
Jan 2019 - Mar 2019	Key Contributor: Scripps Institution of Oceanography SIO 286: Marine Science, Economics, and Policy: Marine Protected Areas - “Advantages of spatial management relative to traditional fisheries policy”
Sep 2018	Invited Lecturer: University of Victoria, British Columbia ES 384: Systems Theory: An Introduction to Natural and Social Systems - “West Coast Groundfish Fisheries: Refining Canadian and U.S. Science and Policy”
Jan 2018	Invited Lecturer: Scripps Institution of Oceanography SIO 286: Marine Science, Economics, and Policy: Marine Protected Areas - “The role of Marine Protected Areas in adaptive fisheries management”
Jan 2018	Invited Lecturer: Scripps Institution of Oceanography MAS Capstone program, CMBC - “The Nature Conservancy: science for conservation in California fisheries”
Jun 2015	Invited Lecturer: Scripps Institution of Oceanography

	MAS Capstone program, CMBC - “California recreational fisheries research at SIO”
Mar 2015 - Jun 2015	Teaching assistant: Scripps Institution of Oceanography SIO 136: Marine Biology Laboratory
Oct 2014	Invited lecturer: Scripps Institution of Oceanography SIO101: California Coastal Oceanography “Collaborative fisheries science in southern California”
Feb 2012 - Feb 2014	Invited lecturer: Scripps Institution of Oceanography SIO110: Introduction to GIS & GPS for scientists “Applications of GIS to fisheries science in California”
Apr 2012 - Jun 2012	Teaching assistant: UCSD Biological Sciences Department Field Ecology, lecture/lab
Jan 2012 - Apr 2012	Teaching assistant: Scripps Institution of Oceanography Introduction to GIS/GPS for scientists, lecture/lab
Jan 2011 - Apr 2011	Teaching assistant: Scripps Institution of Oceanography Introduction to GIS/GPS for scientists, lecture/lab
Sep 2010 - Dec 2010	Teaching assistant: UCSD Biological Sciences Department Marine Biology
Jan 2006 - May 2006	Teaching assistant: CSULB Biological Sciences Department Introduction to Marine Biology, 4 lab sections
Oct 2004 - May 2006	Invited lecturer (multiple lectures): CSULB Geography Department – Introduction to Geographic Information Systems (GIS) with biological applications

## **Graduate Student Advisory Committees – Scripps Institution of Oceanography**

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Committee Chair – Roberto Silva, CMBC MAS Program 2022-2023. Size truncation in California fisheries: a convergent cross mapping analysis. Scripps Institution of Oceanography. Direct hire after: California Department of Fish and Wildlife.

Committee Member – Connor Coscino, M.S. Marine Biology 2021-2023. Length-based assessment of California fisheries. Scripps Institution of Oceanography. Direct hire after: California Department of Fish and Wildlife.

Committee Member – Richie Cravey, M.S. Marine Biology 2020-2021. Performance of a length-based fishery assessment tool, Poseidon, in informing management of data-limited fisheries. Scripps Institution of Oceanography. Direct hire after: Wood Environmental Consulting.

Committee Member – Lindsay Bonito, M.S. Marine Biology 2019-2020. National and regional syntheses of Exempted Fishing Permit use and impact in the United States. Scripps Institution of Oceanography. Direct hire after: California Ocean Protection Council.

Committee Chair – Clara Fejer, CMBC MAS Program 2019-2020. Review of fisheries stock enhancement and the California Ocean Resources Enhancement and Hatchery Program, including documentary film. Scripps Institution of Oceanography.

Committee Member – Liz Hunter, CMBC MAS Program 2019-2020. California artificial reefs review and future directions. Scripps Institution of Oceanography.

Committee Member – Jessica Schem, CMBC MAS Program 2018. Marine spatial management in Montserrat. Scripps Institution of Oceanography. Direct hire after: NOAA PIFSC/JIMAR Science Operations Division Technician, Hawaii.

### **Studentsassistants mentored**

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Dylan Sarish, graduated: B.S. Marine Biology at Scripps Institution of Oceanography. Advanced to: M.S. program UC Santa Cruz

Sebastian Sanchez, American Fisheries Society Hutton Scholar, Scripps Institution of Oceanography.

Erin Johnston, graduated: B.S. Marine Biology at Scripps Institution of Oceanography. Advanced to: California Dept. Fish and Wildlife, CRFS Program and M.S. program at Cal Poly San Luis Obispo.

Ashley Rankin, graduated: M.S. Biology at Scripps Institution of Oceanography. Advanced to: California Dept. Fish and Wildlife climate science and San Diego SeaCamp marine science instructor.

Amanda Barker, graduated Scripps Institution of Oceanography. Advanced to: Ph.D. program at Texas A&M University (advisors: Dr. John Gold and Dr. David Portnoy).

Elizabeth Cerny-Chipman, graduated Scripps Institution of Oceanography. Advanced to: Ph.D. program at Oregon State University (advisor: Dr. Bruce Menge), and Fisheries Policy Analyst at the Ocean Conservancy.

Jonathan Walker, graduated: M.A.S. Scripps Institution of Oceanography. Advanced to: NOAA Southwest Fisheries Science Center, fisheries research contractor.

Jason Ho, graduated: M.S. Biology at Scripps Institution of Oceanography. Advanced to: Research Associate, InhibRx

Alayna Siddall, graduated: M.A.S Scripps Institution of Oceanography. Advanced to: Director of Science and Communications at the Sportfishing Association of California

Travis Buck. Direct report at HSWRI. Advanced to: Environmental Scientist, California Dept. Fish and Wildlife

Otis Horning. Direct report at HSWRI. Advanced to: Environmental Scientist, California Dept. Fish and Wildlife

Elizabeth Hellmers Mendoza. Direct report at HSWRI. Advanced to: Environmental Scientist, California Dept. Fish and Wildlife

## **Professional Committees / Working Group Participation**

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- Working group member, TNC-SIO-IATTC shark bycatch mitigation workshop, 2025
- Review panelist, Oregon Sea Grant 2026-2028 Biennial Research Competition, 2025
- Working group member, California fisheries '30x30' Working Group, 2024
- Ocean Science Trust and Ocean Protection Council – California fisheries indicators working group, 2024
- Science Advisory Group, CDFW recreational barred sand bass Science Advisory Group member, 2024-2025
- Science Advisory Team, California Department of Fish and Wildlife, proposed Barred Sand Bass seasonal regulation changes, 2024
- Review team member, American Institute of Biological Sciences, Alaska-INBRE Institutional Development Award Program, addressing biological and health concerns in underserved and Alaska Native communities, 2024
- Panelist: Ocean Science Trust - UC Davis joint Federal Fishery Disaster Symposium and Workshop, May 2024.  
<https://fisherydisasterssymposium.rsvpify.com/?securityToken=Pb6kZ38jPJbi4VK2r4BY4RhyAYwpvlhy>
- Steering Committee member: Multi-agency California state fisheries Climate Vulnerability Assessment (CVA), 2022-2023
- Panelist: NOAA Climate and Fisheries Adaptation Program RFP, Feb 2023
- Advisor: Climate Resilient Fisheries Planning Tool (<https://climateresilientfisheries.net/>), Jan 2023
- Working Group Lead: Elasmobranchs Science Advisory Group, TNC-SIO-IATTC, 2022-2024

- Working Group member: Understanding climate impacts on groundfish fisheries and fishing communities on the US west coast, NOAA, Oct 2021
- Working Group member: SNAPP/NCEAS climate resilient fisheries working group, Feb 2020
- Panel member: West Coast Harmful Algal Blooms working group, Sacramento, Mar 2018
- Planning Committee: Western Groundfish Conference, Monterey, Feb 2018
- Marine Resource Education Program – West Coast, Santa Cruz, CA, Aug 2017

## **Contributed peer reviews**

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Marine Ecology Progress Series

Nature Reviews Biodiversity

Nature Communications – Earth and Environment

Biological Conservation

Scientific Reports

Frontiers in Marine Science

Fish and Fisheries

Marine Ecology

Fisheries Research

Marine Policy

Seafood Watch Reports

Fishes (MDPI)

California Fish and Wildlife Journal

## **Smartphone/Web Applications**

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FishKit (affiliate)

OceanRuler (affiliate)

CatchReporter (designer)

eCatch (affiliate)

CrabGear (affiliate)

## **Invited outreach events/presentations**

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Reef Environmental Education Foundation (REEF), Marine Conservation Intern Program.

Career paths in the field of marine conservation. Webinar, Oct 28, 2022.

The Nature Conservancy – North America Webinar Series. 2022. How TNC is advancing climate-ready fisheries management. Webinar, Mar 1, 2022.

The Nature Conservancy, Chile Chapter. 2021. Marine recreational fisheries management in California. Webinar, Nov 24, 2021.

Reef Environmental Education Foundation (REEF), Marine Conservation Intern Program. Career paths in the field of marine conservation. Webinar, Oct 8, 2021.

San Diego Anglers. Introduction to the California Fisheries Program at The Nature Conservancy. San Diego, June 5, 2019.

California Ocean Protection Council and Ocean Science Trust co-hosted Harmful Algal Bloom Workshop, invited panel member, Partnerships in support of monitoring for seafood safety. Sacramento, CA, Mar 22-23, 2018.

Department of Fisheries and Oceans and Sportfishing Institute of British Columbia (meeting) Descending devices in California: Introduction, acceptance, and implementation. Vancouver, British Columbia, Apr. 8, 2017.

California State University Long Beach (departmental seminar)  
“Cooperative recreational fisheries research in California: historical trends in “trophy” sizes (1966-2013) and population analyses of two species of *Paralabrax* off San Diego, Feb. 23, 2017

San Diego Rod and Reel Club (club meeting)  
“Barotrauma and post- release survival of rockfishes in California,” San Diego, June 2016

Sportfishing Institute of British Columbia (annual gala)  
“Barotrauma and post-release survival of rockfishes in California,” Vancouver, British Columbia, November 27, 2015

REEF annual event, Scripps Institution of Oceanography  
“Coastal Angler Tagging Cooperative,” La Jolla, November 16, 2014

San Diego Anglers (5 event presentations: 2 meetings, 3 tournaments)  
“Southern California collaborative fish tagging program,” San Diego, 2012-2014

Day at the Docks, Point Loma, 2013-2014

Fred Hall & Associates (4 trade shows)  
“Coastal Angler Tagging Cooperative,” Long Beach and Del Mar, 2013-2014

Oceanside Anglers (club meeting)  
“Southern California collaborative fish tagging program,” Oceanside, 2013

Saltwater Bass Anglers (tournament), Newport Bay, 2013

Saltwater Bass Series (tournament), San Diego, 2013

San Diego Rod and Reel Club (club meeting)

“Southern California collaborative fish tagging program,” San Diego, 2012

San Diego Dive Club (club meeting)

“Southern California collaborative fish tagging program,” San Diego, 2012

Southern California Tuna Club (club meeting)

“Movement patterns of ocean whitefish at Catalina Island,” Long Beach, 2005

## **Radio/Podcast interviews**

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“Let’s Talk Hook-Up” fishing radio show and podcast, San Diego, Oct 5, 2024

“Let’s Talk Hook-Up” fishing radio show, San Diego, Feb 26, 2022

“Let’s Talk Hook-Up” fishing radio show, San Diego, July 12, 2020

“Into the Backing” Anchored Outdoors Podcast hosted by April Vokey, July 8, 2020

“Let’s Talk Hook-Up” fishing radio show, San Diego, Dec 16, 2018

“Let’s Talk Hook-Up” fishing radio show, San Diego, 2017

“Let’s Talk Hook-Up” fishing radio show, San Diego, Aug 2017

“Let’s Talk Hook-Up” fishing radio show, San Diego, 2014

“Let’s Talk Hook-Up” fishing radio show, Long Beach, 2013

“Phil Friedman Outdoors” outdoor radio show, Del Mar, 2013

## **Video appearances**

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Nova West Creative. 2025. [Out in the Wild](#). Coming soon!

Klarified Productions. 2021. [Enhancing the Wild: A Film About Repopulating Ocean Fisheries](#).

Fox Sports West series: Inside Sportfishing with Michael Fowlkes (Season 1, Episode 14), San Diego, 2013 - <https://www.amazon.com/Inside-Sportfishing/dp/B0DK6BFKHR>

Fox Sports West series: Inside Sportfishing with Michael Fowlkes (Season 1, Episode 15), San Diego, 2013 - <https://www.amazon.com/Inside-Sportfishing/dp/B0DK6BFKHR>

## **Media products**

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Fox5 San Diego. 2025. [Local marine biologist shares new study on ocean temperatures.](#) Television interview.

NBC Bay Area. 2025. [New study paints gloomy picture of climate change's impact on commercial fishing.](#)

National Fisherman. 2025. [Climate threat casts shadow over California commercial fisheries.](#)

UC Santa Cruz - News Center. 2025. [Economically, culturally important marine species vulnerable to changing climate, study shows.](#)

Fox5 News. 2024. "Increase in sea urchin population raises concerns raises concerns off California's coast." <https://fox5sandiego.com/news/california-news/increase-in-sea-urchin-population-raises-concerns-off-californias-coast/> Jan 18, 2024. Television interview.

Hughes, Trevor. 2023. <https://www.usatoday.com/story/news/nation/2023/10/30/climate-change-effects-on-oceans-revealed/70361345007/>. USA Today.

Hughes, Trevor. 2023. <https://www.usatoday.com/story/news/nation/2023/10/30/alaska-fishing-threatened-snow-crabs-disappear/70361273007/>. USA Today.

Hughes, Trevor. 2023. <https://www.usatoday.com/story/news/nation/2023/10/30/california-coast-hides-barrens-of-climate-change/70361274007/>. USA Today.

Hughes, Trevor. 2023. <https://www.usatoday.com/story/news/nation/2023/10/30/maine-lobster-industry-at-risk-climate-change/70361283007/>. USA Today.

Hughes, Trevor. 2023. <https://www.usatoday.com/story/news/nation/2023/10/30/hurricanes-climate-change-hurting-florida-shrimping/70361275007/>. USA Today.

Tasoff, Harrison. 2023. <https://news.ucsb.edu/2023/021216/reducing-fishing-gear-could-save-whales-low-impacts-californias-crab-fishermen>. The Current, UC Santa Barbara.

Mossler, Max and Lyall Bellquist. 2023. <https://www.globalseafood.org/advocate/fisheries-in-focus-what-is-the-fisheries-management-index-and-what-does-it-say-about-u-s-fisheries/> Global Seafood Alliance.

Tasoff, Harrison. 2023. <https://www.news.ucsb.edu/2023/021054/lessons-blob-will-help-us-manage-fisheries-during-future-marine-heatwaves>. The Current, UC Santa Barbara.

Fox5 News. 2023. “Frigid water temperatures recorded of San Diego’s coast,” Apr 8, 2023 <https://fox5sandiego.com/news/local-news/coastal/frigid-water-temperatures-recorded-along-san-diegos-coast/>. Television interview.

Bellquist, Lyall. 2023. First nationwide assessment of non-federally managed fisheries in the U.S. University of Washington, Sustainable Fisheries Lab blog. <https://sustainablefisheries-uw.org/non-federally-managed-usa-fisheries/>

Frank, Thomas. 2021. “Fisheries disasters jump with warming, but feds fail to act.” ClimateWire. E&E News. May 7, 2021.

Fox5 News. 2021. “Environmental and economic impacts of southern California oil spill,” Television interview. Oct 6, 2021

Fox5 News. 2021. “White shark caught and released in Oceanside,” Television interview. Feb 8, 2021 <https://fox5sandiego.com/news/local-news/video-shows-9-foot-shark-snagged-on-fishing-line-at-oceanside-pier/>

Fox5 News. 2020. “Great white sharks spotted off La Jolla,” <https://fox5sandiego.com/news/local-news/watch-live-great-white-sharks-reportedly-spotted-in-la-jolla/>. Television interview. Oct 1, 2020.

Fox5 News. 2020. “Young great white shark sightings off San Diego coast spike,” [https://fox5sandiego.com/news/local-news/young-great-white-shark-sightings-off-san-diego-coast-spike/?utm\\_campaign=socialflow&utm\\_source=facebook.com&utm\\_medium=referral](https://fox5sandiego.com/news/local-news/young-great-white-shark-sightings-off-san-diego-coast-spike/?utm_campaign=socialflow&utm_source=facebook.com&utm_medium=referral) July 15-16, 2020. Television interview.

Bowen, William. 2013. “On a tagging mission.” <https://sdnews.com/on-a-tagging-mission/>. San Diego Downtown News.

Bowen, William. 2013. “Fishing boat at Cove is tagging bass for sustainability study.” [https://issuu.com/lajollalight2010/docs/11-14-2011\\_la\\_jolla\\_light](https://issuu.com/lajollalight2010/docs/11-14-2011_la_jolla_light). Nov 14, 2013. La Jolla Light, page B1, B11.

Brody, Ambrosia. 2013. “Meet Lyall Bellquist: tracking SoCal’s saltwater bass.” <https://www.thelog.com/local/meet-lyall-bellquist-tracking-socal-s-saltwater-bass/>. The Log: California’s Boating and Fishing News.

Landesfeind, Erik. 2012. “California saltwater bass tagging program.” <https://www.bdoutdoors.com/fishing/conservation/so-cal-scene-california-saltwater-bass-tagging-program/>. BD Outdoors.

McDonell, Pat. 2012. “Scientific anglers.” Western Outdoor News.

Zieralski, Ed. 2013. "Catch-and-release fishing fueling bass study." <https://www.sandiegouniontribune.com/sports/outdoors/sdut-tagging-study-bass--2013nov15-story.html>. San Diego Union Tribune.

Bowen, William. 2012. "Scripps researchers enlist the curious in fish tagging project." <https://www.lajollalight.com/sdljl-scripps-researchers-enlist-the-curious-in-fish-2012oct31-story.html>. La Jolla Light.

## **Relevant Research Program Websites:**

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- <https://www.nature.org/en-us/about-us/where-we-work/united-states/california/stories-in-california/california-oceans-program/>
- <https://www.mlml.calstate.edu/ccfrp/>
- <https://cmbc.ucsd.edu>
- [www.sememenslab.org](http://www.semmenslab.org)
- <http://swfsc.noaa.gov/frd>

## **Certifications:**

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- California state boat operator license
- PADI open water dive certification 1993
- American Academy of Underwater Sciences 2001 (100ft depth certification, ~2000 dives)
- CPR, first aid, O<sub>2</sub>, and neurological assessment
- NAUI rescue
- California State University boat captain
- University of California boat captain
- Boat/Pier operations at Scripps Institution of Oceanography