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## EDUCATION

- 2010-2014 PhD Ecology and Evolutionary Biology  
University of California Santa Cruz
- 2003 - 2007 MS Marine Science  
Moss Landing Marine Laboratories, Moss Landing, CA
- 2001 Oregon Institute of Marine Biology, Charleston, OR  
Graduate courses in Marine Ecology and Marine Animal Behavior
- 1997 - 2001 BA Biology  
Truman State University, Kirksville, MO

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## PROFESSIONAL EXPERIENCE AND APPOINTMENTS

- 2019-present Adjunct Professor, Estuarine and Ocean Science Center, San Francisco State University
- 2018 Friday Harbor Labs Postdoctoral Fellowship, University of Washington
- 2015-2017 David H. Smith Conservation Research Fellow, Duke University
- 2016 *Course Co-Instructor*, Duke University, Marine Ecology field course
- 2015 *Postdoctoral Scholar*, University of California Santa Cruz
- 2015 *Course Co-Instructor*, University of California Santa Cruz, Marine Conservation Biology class
- 2008 - 2014 *Estuarine Ecologist*, Elkhorn Slough National Estuarine Research Reserve, Watsonville, CA.
- 2008 - 2010 *Adjunct Faculty*, Cabrillo College, courses taught: Ecology
- 2005 - 2008 *Research Analyst*, Moss Landing Marine Labs, Moss Landing, CA.
- 2005 *Instructor*, MLML Teacher Enhancement Program, taught high school marine botany in Watsonville, CA.
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## RESEARCH AND SCHOLARSHIP

Peer-Reviewed Publications (\*Undergraduate Researcher, ^Graduate Student Researcher #Citizen Scientist), 27 total from 2006-2021

Google Scholar Page: <https://scholar.google.com/citations?user=9HfQjCEAAAAJ&hl=en>

Raymond W.W.^, Hughes B.B., Stephens T.A., Mattson C.\*, Bolwerk A.^, Eckert G.L. 2021. Testing the generality of sea otter-mediated trophic cascades in seagrass meadows. *Oikos*. *In press*. doi: 10.1111/oik.07681.

Hughes, B.B., \*B.A. Ali, \*N.N. Noor, \*S.G. Soto, M.N. Dethier. 2020. Native and invasive macrophytes differ in their effectiveness as nurseries for juvenile endangered salmon. *Estuaries and Coasts: Special Issue in Memory of Susan Williams*. *In press*.

^Grimes, T.M., M.T. Tinker, B.B. Hughes, ^K.E. Boyer, L. Needles, K. Beheshti, R.L. Lewison. 2020. Characterizing the impact of recovering sea otters on commercially important crab in California estuaries. *Marine Ecology Progress Series*. 655:123-137.

Anderson, S.C., P.R. Elsen, B.B. Hughes, R.K. Tonietto, M.C. Bletz, D.A. Gill, M.A. Holgerson, S.E. Kuebbing, C. McDonough MacKenzie, M.H. Meek, D. Verissimo. 2020. Trends in ecology and conservation over eight decades. *Frontiers in Ecology and the Environment*. *In press*.

Whalen, M....27 co-authors, B.B. Hughes,...39 co-authors, J.E. Duffy. 2020. Climate drives the geography of marine consumption by changing predator communities. 2020. *Proceedings of the National Academy of Sciences USA*. 45:28160-28166.

^Rudebusch, J.A., B.B. Hughes, K.E. Boyer. 2020. Assessing anthropogenic risk to southern sea otters (*Enhydra lutris nereis*) for reintroduction into San Francisco Bay. *PeerJ*. 8:e10241.

Wasson, K., ^D.J. Gossard, L. Gardner, P.R. Hain, S. Fork, C.J. Zabin, S. Fork, A.D. Ridlon, J.M. Bible, A.K. Deck, B.B. Hughes. 2020. A scientific framework for conservation aquaculture: A case study of oyster restoration in central California. 2020. *Biological Conservation*. 250:108745.

Hughes, B.B., K. Wasson, M.T. Tinker, S.L. Williams, ^L.P. Carswell, K.E. Boyer, M.W. Beck, #R. Eby, #R. Scoles, M. Staedler, ^S. Espinosa, M. Hessing-Lewis, ^E.U. Rechsteiner, ^K. Beheshti, ^T.M. Grimes, B.H. Becker, L. Needles, J.A. Tomoleoni, ^J. Rudebusch, E. Hines, B.R. Silliman. 2019. Species recovery and recolonization of past habitats: lessons for science and conservation from sea otters in estuaries. *PeerJ*. 7e8100.

Stephens, T.A., B.B. Hughes, K.J. Kroeker, M. Hessing-Lewis, Z. Monteith, M. Morris, ^W.W. Raymond. 2019. Between a rock and a soft place: surfgrass colonizes sediments without attachment to rock. *Ecology*. e02791.

Lefcheck, J.S., B.B. Hughes, ^A.J. Johnson, ^B. Pfirrman, D.B. Rasher, A.R. Smyth, B.L. Williams, M.W. Beck, R.J. Orth. 2019. Coastal habitats are nurseries: a comprehensive meta-analysis. *Conservation Letters*. 12:e12645.

- Silliman, B.R., B.B. Hughes, ^L.C. Gaskins, Q. He, M.T. Tinker, A. Read, J. Nifong, R. Stepp. 2018. Are the ghosts of nature past haunting conservation today? *Current Biology*. 28:R532-R537.
- Toft, J., S. Munsch, J. Cordell, K. Siitari, V. Hare, B. Holycross, L. DeBruyckere, C. Greene, B.B. Hughes. 2018. Impact of multiple Stressors on estuarine nursery function across the northeast Pacific coast. *Global Change Biology*. 24:2008-2020.
- Jeppesen, R., \*M. Rodriguez, \*J. Rinde, J. Haskins, B.B. Hughes, L. Mehner, K. Wasson. 2018. Hypoxia increases fish mortality and reduces oyster growth in a highly eutrophic estuary. *Estuaries and Coasts* 41:89-98.
- Hughes, B.B., ^S.C. Lummis, S.C. Anderson, K.J. Kroeker. 2017. Unexpected resilience of a seagrass system exposed to global stressors. *Global Change Biology*. 24:224-234.
- Hughes, B.B., ^R. Beas-Luna, ^A. Barner, ^K. Brewitt, D.R. Brumbaugh, ^E. Cerny-Chipman, ^S.L. Close, ^K.E. Coblenz, ^K.L. de Nesnera, ^S.T. Drobitch, J.D. Figurski, ^B. Focht, ^M. Friedman, J. Freiwald, K.K. Heady, W.N. Heady, ^A. Hettinger, ^A. Johnson, K.A. Karr, ^B. Mahoney, ^M.M. Moritsch, ^A.K. Osterback, ^J. Reimer, ^J. Robinson, ^T. Rohrer, ^J. Rose, ^M. Sabal, ^L.M. Segui, ^C. Shen, ^J. Sullivan, R. ^Zuercher, P.T. Raimondi, B.A. Menge, K. Grorud-Colvert, M. Novak, M.H. Carr. 2017. Long-term studies contribute disproportionately to ecology and policy. *BioScience* 67:271-281.
- #Eby, R., #R.S. Scoles, B.B. Hughes, K. Wasson. 2017. Serendipity in a salt marsh: detecting frequent sea otter haul outs in a marsh ecosystem. *Ecology*. 98:2975-2977.
- Hessing-Lewis, ^M., E. Rechsteiner, B.B. Hughes, M.T. Tinker, ^A. Olson, ^Z. Monteith, ^M.M. Henderson, J.C. Watson. 2018. Ecosystem features determine seagrass community response to sea otter foraging. *Marine Pollution Bulletin*. 134:134-144.
- Wasson, K., R. Jeppesen, C. Endris, D. Perry, A. Woolfolk, ^K. Beheshti, \*M. Rodriguez, #R. Eby, E. Watson, F. Rahman, J. Haskins, B.B. Hughes. 2017. Eutrophication decreases salt marsh resilience through proliferation of algal mats. *Biological Conservation*. 212:1-11.
- ^Honig, S., ^B. Mahoney, \*J. Glanz, B.B. Hughes. 2017. Are seagrass beds indicators of anthropogenic nutrient stress in the rocky intertidal? *Marine Pollution Bulletin* 114:539-546.
- Hughes, B.B., K. Hammerstrom, N. Grant, \*U. Hoshijima, #R. Eby, K. Wasson. 2016. Trophic cascades on the edge: fostering seagrass resilience via a novel pathway. *Oecologia* 182:231-241.
- Wasson, K., B.B. Hughes, A. Chang, A. Deck, P. Dinnel, S. Dudas, M. Ferner, E. Grosholz, D. Kimbro, J. Ruesink, A. Trimble, D. Vander Schaaf, C. Zabin, D. Zacherl. 2016. Coastwide recruitment of Olympia oysters: spatial scales of synchrony and predictors of recruitment failure. *Ecology* 97:3503-3516.
- Silliman, B.R., P.M. Dixon, C. Wobus, Q. He, P. Daleo, B.B. Hughes, J. Willis, M. Hester. 2016. Tipping points in marsh resilience to the Deepwater Horizon oil spill. *Nature Scientific Reports* 6:32520. DOI: 10.1038/srep32520.

Hughes, B.B., M. Levey, M. Fountain, A. Carlisle, F. Chavez, M. Gleason. 2015. Climate mediates threats to fish diversity and nursery function at the land-sea interface. *Proceedings of the National Academy of Sciences USA* 112:8025-8030.

Hughes, B.B., #R. Eby, E. Van Dyke, M.T. Tinker, ^C. Marks, K.S. Johnson, K. Wasson. 2013. Recovery of a top predator mediates negative eutrophic effects on seagrass. *Proceedings of the National Academy of Sciences USA* 110:1513-1518.

Hughes, B.B., J. Haskins, K. Wasson, and E. Watson. 2011. Identifying factors that influence expression of eutrophication in a central California estuary. *Marine Ecology Progress Series* 439:31-43.

Hughes, B.B. 2010. Variable effects of a kelp foundation species on rocky intertidal diversity and species interactions in central California. *Journal of Experimental Marine Biology and Ecology* 393:90-99.

Hernandez, G.C., B.B. Hughes and M. Graham. 2006. Reproductive longevity of drifting kelp *Macrocystis pyrifera* (Phaeophyceae) in Monterey Bay, USA. *Journal of Phycology* 42:1199-1207.

#### Book chapters:

Silliman B., B.B. Hughes, Y.S. Zhang, Q. He. 2017. Business as usual leads to underperformance in coastal restoration. In: *Effective Conservation Science: Data Not Dogma*. Eds. P. Kareiva, M. Marvier, B. Silliman. Ch. 27.

#### Technical reports:

Hughes, B.B. Estuarine & Wetland Ecosystems: the first steps in developing an approach to leveraging existing monitoring programs. Report to California Ocean Science Trust, Oakland, CA USA. June, 2017.

Hughes, B.B., C. Endris, ^K. Beheshti, M.T. Tinker, S.L. Williams, H.G. Greene. 2016. Enhancement of healthy coastal environments by incorporating species interactions into seagrass mitigation design. California SeaGrant Report. Project # R/HCME-18PD. 23 pp.

Hughes, B.B., M.D. Levey, J.A. Brown, M.C. Fountain, A.B. Carlisle, S.Y. Litvin, C.M. Greene, W.N. Heady, M.G. Gleason. 2014. Nursery functions of U.S. west coast estuaries: the state of knowledge for juveniles of focal fish and invertebrate species. *The Nature Conservancy*, Arlington, VA. 168 pp.

Hughes, B.B., M. Fountain, A. Carlisle, M. Levey, M. Gleason. 2012. The impacts of nutrient loading and environmental conditions on the fish assemblage and available nursery habitat in Elkhorn Slough. *The Nature Conservancy*.

Hughes, B.B., J. Haskins, K. Wasson. 2010. Assessment of the effects of nutrient loading in estuarine wetlands of the Elkhorn Slough watershed: a regional eutrophication report card. *Elkhorn Slough Technical Report Series* 2010:1.

Hughes, B.B. 2009. Synthesis for management of eutrophication issues in Elkhorn Slough. *Elkhorn Slough Technical Report Series* 2009:1.

Stephenson, M., ^J. Negrey, B.B. Hughes. 2009. Spatial and temporal trends of methyl mercury in California bays and harbors: A bioaccumulation approach to assess fish and water quality. *California*

*State Water Resources Control Board Technical Report.*

Stephenson, M., W. Heim, B.B. Hughes, A. Bonnema and K. Coale. 2008. Methylmercury loading studies in Delta wetlands. *CALFED Mercury Project*, Task 5.3a.

Popsci articles:

Hughes, B.B. River otters in a land without rivers. 2018. San Juan Islander.  
<https://sanjuanislander.com/opinion/columnists/tide-bites/27960/river-otters-in-a-land-without-rivers>

\*Ali, B., \*N. Noor, \*S. Soto, B.B. Hughes. River otters lurking in the sea: further evidence of a paradigm shift in conservation. 2018. Society for Conservation Biology News Blog.  
<https://conbio.org/publications/scb-news-blog/river-otters-lurking-in-the-sea-further-evidence-of-a-paradigm-shift-in-con>

Hughes, B.B. 2017. Searching for the southern sea otter. Lost and Found Blog.  
<http://www.lostandfoundnature.com/blog/2017/08/18/searching-for-the-southern-sea-otter/>

Grants & Awards in Support of Research:

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|-----------|--|
| 2020-2022 | California SeaGrant. Co-PI (along with M. Zippay and S. Place from SSU, and colleagues from UC Davis, University of Washington and San Diego State University). A multi-pronged approach to help recovery along California's north coast (\$156,820 to SSU). |
| 2020-2021 | The Nature Conservancy. Determining drivers of resilience and declines in northern California kelp forests (\$60,000).   |
| 2019-2022 | Ocean Protection Council. A Framework for Condition Assessment and Monitoring of Estuary MPAs in California (\$123,434).   |
| 2020-2021 | Anthropocene Institute. Adding resilience to kelp forests through the development of heat tolerant varieties for restoration (\$50,000).   |
| 2019      | Green Earth Book Award (\$375).  |
| 2019      | SSU Professional Development Award (\$2,176).  |
| 2019      | Koret Scholars Award. Scale-dependency in coastal food webs along the California Current (\$10,000).   |
| 2019-2021 | California Coastal Conservancy. Determining habitat extent and population growth of sea otter recolonization of northern California (\$60,000).  |
| 2016-2019 | NSF BIO-OCE. Trophic linkages in seagrass ecosystems. \$657,000. PI: G Eckert, Senior Personnel: T. Tinker, <b>BB Hughes</b> .   |
| 2016-2017 | California Ocean Science Trust. Estuarine & Wetland Ecosystems Monitoring Program Integration. \$10,000. PI: <b>BB Hughes</b> .  |

- 2016-2017 The Ocean Foundation. Ecosystem functioning of restored seagrass beds. \$14,000. PI: **BB Hughes**.
- 2016-2017 Anthropocene Institute/Ocean Foundation, "Restoration of eelgrass to and its effects to key ecosystem services and water quality". \$50,000, 2016-2017. PI: **BB Hughes**.
- 2015-2016 California Sea Grant, "Enhancement of healthy coastal environments by incorporating species interactions into seagrass mitigation and restoration design", \$10,000. PI: HG Greene. **BB Hughes, Ghost author and project leader**.
- 2013-2014 The Nature Conservancy Grant "Nursery Functions of West Coast Estuaries: A State of the Knowledge Report", \$52,400. PIs: **BB Hughes**, J Brown, M Levey, A Carlisle, S Litvin, M Fountain
- 2014 Central Coast Regional Water Quality Control Board Grant "Discharge measurements for the Tembaldero Slough: determining nutrient loading to Elkhorn Slough", \$8,000,. PIs: J Haskins, **BB Hughes**
- 2012 The Nature Conservancy Grant "Investigation of the relationship between the nursery function of estuaries and nutrient loading", \$50,000,. PIs: **BB Hughes**, M Fountain, M Levey, A Carlisle
- 2010-11 NOAA Recovery and Reinvestment Act via the Elkhorn Slough Tidal Wetland Program for eutrophication research and monitoring, \$2000.
- 2011 Earl and Ethel Meyers Foundation Grant for research, \$1500.
- 2005 David and Lucile Packard Foundation Grant for research, \$1000.
- 2005 PADI Foundation Grant for research, \$2000.
- 2005 Earl and Ethel Meyers Foundation Grant for research, \$500.

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## TEACHING AND MENTORING

### Teaching Experience at SSU:

Term	Course #	Course Title	Students enrolled	Format	GTAs
F20	BIOL 497	Biological Statistics in R	24	Select Topics	0
F20	BIOL 333	Ecology	39	Lecture & Lab	0
S19	BIOL 131	Biological Diversity & Ecology	202	Lecture & Lab	0
S19	BIOL 335	Marine Ecology	20	Lecture & Lab	0
F19	BIOL 500S	Science Communication	15	Grad Seminar	0
F19	BIOL 333	Ecology	35	Lecture & Lab	0
S19	BIOL 335	Marine Ecology	19	Lecture & Lab	0
S19	BIOL	Colloquium	77	Colloquium	0

	390/590				
S19	BIOL 500S	Intro to R	20	Grad Seminar	0
F18	BIOL 333	Ecology	34	Lecture & Lab	0

Undergraduate Student Research – Starting Fall 2018 at SSU:

<i>Term</i>	<i>Student</i>	<i>BIOL Course</i>	<i>Thesis Supervised</i>
F20	Daniela Fernandez	494	B.S. (in progress)
F20	Miranda Sanchez	494	B.S. (in progress)
F20	Christina Leport	494	B.S. (in progress)
S20	Byron Whittle	494	B.S. (graduated)
S20	Lucas Chapman	494	B.S. (in progress)
F19	Karla Vazquez	393	B.S. (graduated)
F19	Danny DeMaria	494	B.S. (graduated)
S19	Jessica Saavedra	494	B.S. (graduated)
S19	Lauren Bocca	494	B.S. (graduated)
S19	Aanisah Houston	494	B.S. (graduated)
S19	Natasha Higuera	494	B.S. (in progress)
F18	Natasha Higuera	393	B.S. (in progress)

Thesis Committees:

*Sonoma State M.S. thesis project supervisor*

- Julieta Gomez, Aug. 2020-present, M.S. in progress
- Rachael Karm, Aug. 2020-present, M.S. in progress
- Alyssa Baldo Cooper, Aug. 2020-present, M.S. in progress
- Joe Jackson, Aug. 2019-present, M.S. in progress
- Jessica Saavedra, Aug. 2019-present, M.S. in progress
- Madeline Sanchez, Aug. 2019-present, M.S. in progress

*Sonoma State thesis committee member*

- Shelby Hotz, 2019-present, M.S. in progress
- Megan Gaitan, 2018-2019: M.S. awarded

*Sonoma State thesis orals committee member*

- Ryan Lewis, 2019-present, M.S. awarded

*Outside Committee Member*

- Christian Tettelbach, 2019-present, M.S. in progress at SFSU
- Jane Rudebusch, 2017-2019, M.S. awarded at SFSU

*Graduate Student Research Awards at SSU*

2020 Madeline Sanchez, Ernest L. and Ruth W. Finley Foundation Scholarship (\$4100)

Madeline Sanchez, Ralph Bushnell Memorial Scholarship (\$400)

Alyssa Baldo Cooper, Forrest W. and Ida J. Benson Scholarship (\$750)

2019 Joe Jackson, SSU Student Research Award (\$750)

- 2019 Joe Jackson, Western Society of Naturalists Travel Award (\$250)
- 2019 Jessica Saavedra, Western Society of Naturalists Travel Award (\$250)
- 2019 Madeline Sanchez, Western Society of Naturalists Travel Award (\$250)
- 2019 Jessica Saavedra, CSU COAST Travel Award (\$750)
- 2019 Joe Jackson, CSU COAST Travel Award (\$750)
- 2019 Joe Jackson, Pt. Reyes National Seashore Neubacher Grant (\$1,000).

*Undergraduate Student Research Awards at SSU*

- 2020 CSU COAST Undergraduate Student Research Award, Natasha Higuera (\$1231).
- 2019 CSU COAST Undergraduate Student Research Award, Jessica Saavedra and Danny DeMaria (\$1357).
- 2019 Koret Scholars Award, Jessica Saavedra, Natasha Higuera, Aanisah Houston, Lauren Bocca (\$4000).
- 2018 Jessica Saavedra, Biology Department Award in Support of Research (\$500).
- 2018 Natasha Higuera, Biology Department Award in Support of Research (\$500).

Scholarly activities:

*Select Recent Invited Talks and Seminars*

Hughes, B.B. The ghosts of oceans past whisper secrets for conservation today. *Invited speed talk.* Ocean Protection Council Roadshow. Estuary and Ocean Science Center, San Francisco State University, Tiburon, CA. Mar. 2020.

Hughes, B.B. Top predator recovery, ecosystem function and coastal resilience in the Anthropocene. *Invited seminar.* UC Davis Bodega Marine Lab. Apr. 2019

Hughes, B.B. Sea Otters and Estuaries: Paradise Lost. *Invited seminar.* Moss Landing Marine Labs, Moss Landing, CA. Apr. 2019.

Hughes, B.B., D. Gossard<sup>^</sup>, P. Hain, M.H. Graham, K. Wasson. Aquaculture as a tool for restoring native oysters and understanding lost species interactions. *Invited talk.* Pathways Toward Responsible Aquaculture in California Workshop. Moss Landing Marine Labs, Moss Landing, CA. Aug 2018.

*Select Recennt Co-authored student presentations (\*Undergraduate Researcher, ^Graduate Student Researcher #Citizen Scientist):*

Saavedra, J.J.<sup>^</sup>, Jackson, J.R.<sup>^</sup>, DeMaria, D.\* , Smith, D.\* , Eckert, G., Hughes, B.B.  
Testing the effects of recovering sea otters on seagrass ecosystems in southeast



Alaska. Western Society of Naturalists. Ensenada, MX. November 2019. Poster Presentation.

Jackson, J.R.<sup>^</sup>, Tomoleoni, J., Becker, B., Hughes, B.B. Exploring novel food webs prior to top predator recovery. Western Society of Naturalists. Ensenada, MX. November 2019. Poster Presentation.

Beheshti, K.M.<sup>^</sup>, Wasson, K., Angelini, C., Silliman, B.R., Hughes, B.B. The Effect of an Ecosystem Engineer on Elkhorn Slough Salt Marshes. 2019 Elkhorn Slough Science Symposium. Moss Landing Marine Laboratories, CA. October 11, 2019. 15-Minute Talk.

Beheshti, K.M.<sup>^</sup>, Wasson, K., Boyer, K.E., Clemon, A\*, Hughes, B.B. Ecosystem Multifunctionality Enhanced with Seagrass Restoration Success. 2019 Elkhorn Slough Science Symposium. Moss Landing Marine Laboratories, CA. October 21, 2019. Poster Presentation.

Beheshti, K.M.<sup>^</sup>, Hughes, B., Boyer, K.E., Wasson, K. Small-Scale Experimental Seagrass Restoration Success with Large-Scale Consequences. 14<sup>th</sup> Biennial State of the San Francisco Estuary Conference. Oakland, CA. October 21, 2019. Poster Presentation.

Rudebusch, J.A.<sup>^</sup>, Hines, E.M., Hughes, B.B., Boyer, K.E. (2019, March). *Assessing anthropogenic risk to sea otters for reintroduction into San Francisco Bay*. Presented at the Sea Otter Conservation Workshop IX, Seattle, WA. March 2019.

Grimes, T.M.<sup>^</sup>, M.T. Tinker, B.B. Hughes, R.L. Lewison. Patterns in Sea Otter Foraging Activity and Juvenile Dungeness Crab Habitat Use in Elkhorn Slough, CA. Oral Presentation at Southern Sea Otter Research Update Meeting, Santa Cruz, CA. 2018.

Soto S.\* , B. Ali\* , N. Noor\* , B.B. Hughes. Invasive and native species cofunction to create suitable habitat for endangered chinook salmon (*oncorhynchus tshawytscha*). Minnesota Academy of Science Annual Meeting & Winchell Undergraduate Research Symposium. White Bear Lake, MN. April 27, 2019.

Raymond WW<sup>^</sup>, Hughes BB, Stephens TA, Mattson C\*, Bolwerk A<sup>^</sup>, Eckert GL. Ecological relationships between recovering sea otters and eelgrass communities in southeast Alaska. Presentation at Alaska Marine Science Symposium. Anchorage, AK. Jan. 2019.

Raymond WW<sup>^</sup>, Hughes BB, Stephens TA, Mattson C\*, Bolwerk A<sup>^</sup>, Eckert GL. Eelgrass community relationships across a gradient of sea otter population recovery. Presentation at Western Society of Naturalists. Tacoma, WA. Nov. 2018

Raymond WW<sup>^</sup>, Mattson C\*, Hughes BB, Stephens T, Bolwerk A<sup>^</sup>, LaRoche N<sup>^</sup>, Eckert GL. Sea otters may associate with greater eelgrass distribution, density and biomass in Southeast Alaska. Presentation at Coastal and Estuarine Research Federation. Providence RI. Nov. 2019.

Beheshti<sup>^</sup>, K.M., Hughes, B.B., Boyer, K., Clemons, A. \* , Emery, M. \* , Wasson, K. Lessons learned from seagrass restoration in Elkhorn Slough. Restoring America's Estuaries

Conference. Long Beach, CA. December 8-13, 2018. Poster Presentation.

*Scientific Society Memberships*

- Society for Conservation Biologists (Honorary Lifetime Membership, 2015-present)
- American Society for Limnology and Oceanography (2018-present)
- Western Society of Naturalists (2004-present)

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UNIVERSITY SERVICE

Committee, Advisory and Coordinator positions:

*Department of Biology Service*

- Education/Outreach/Development Committee, 2019-present, Chair as of Oct. 2020
- Graduate Committee, 2020-present
- Biological Collections Committee, 2019-2020

*School of Science and Technology (SST) Service*

- Elections Committee, 2019-present, Chair as of Oct. 2020

*University Service*

- SSU Decision Day, Volunteer. Apr. 2019

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COMMUNITY AND PUBLIC SERVICE

Scientific Community:

*Recent Journal Article Review service:*

2020 Estuaries and Coasts, Marine Environmental Research

2019 Proceedings of the National Academy of Sciences, Trends in Ecology and Evolution, Conservation Letters, Ecology (x2), Journal of Ecology

2018 Ecology, Limnology and Oceanography

*Recent Proposal Review service:*

2020 CSU Coast Graduate Student Research Award, California SeaGrant (x2)

2019 NSF Biological Oceanography, CSU Coast Graduate Student Research Award (x4)

Recent Public Outreach:

Hughes, B.B. Are sea otters ghosts of estuaries past? *Invited speaker* and panelist. Elakha Alliance Virtual Symposium: Sea Otters & Oregon's Kelp Ecosystem. Oct 2020.

Hughes, B.B. Are sea otters ghosts of estuaries past? *Invited speaker*. Sea Otter Awareness Week. Sept 2020.

CDFW Community Clam Surveys, Tomales Bay. Took 10 undergraduate students to learn about identifying and surveying clams for fisheries survey. May 2019.

River Otter Day at Tomales High School. November 2019. *Invited Panelist*.

Hughes, B.B. Space invader's view of seagrass restoration: a success story from California. *Invited Presentation*. October 2018. SF Bay Ocean Conservation Meeting.

Hughes, B.B. Sep 2018. Sea otters and estuaries: paradise lost. *Invited public seminar*. Sea Otter Awareness Week. Morro Bay, CA.

#### Recent Media Coverage:

KQED. Sea Slugs Scrub Seagrass by the Seashore. 2020. Features Drs. Boyer's and Hughes' labs research on sea hares in seagrass. Cinematographer credit to Dr. Hughes.

<https://www.kqed.org/science/1970711/sea-hares-scrub-seagrass-by-the-seashore>

Heart of the Coast: Biodiversity and Resilience on the Pacific Edge by Tyee Bridge. 2020. Features research by Dr. Hughes on resilience in seagrass. <https://www.amazon.com/Heart-Coast-Biodiversity-Resilience-Pacific/dp/1773271156>

Sea Otters: A Survival Story by Isabelle Groc. Childrens book, ages 9-12 featuring my research on sea otters. 2020. <https://www.orcabook.com/Sea-Otters-P4644.aspx>

Mongabay. How do Southern sea otters use tools? Candid Animal Cam heads to the ocean. 2020. Grad Student Madeline Sanchez's M.S. research is featured. <https://news.mongabay.com/2020/09/how-do-southern-sea-otters-use-tools-candid-animal-cam-heads-to-the-ocean/>

Bay Nature Magazine. People Should Physically Distance from Sea Otters, Too. 2020. <https://baynature.org/2020/05/19/people-should-physically-distance-from-sea-otters-too/>

Hakai Magazine. We've been systematically underestimating sea otters' historical habitat. 2020. <https://www.hakaimagazine.com/news/weve-been-systematically-underestimating-sea-otters-historical-habitat/>

San Jose Mercury News. 2020. <https://www.mercurynews.com/2020/01/08/san-francisco-bay-could-triple-threatened-otter-population-study-says/>

California State University. Share the planet: protecting california's wildlife  
See how the CSU is helping preserve California's wildlife as threats to their habitats continue to grow. 2020. <https://www2.calstate.edu/csu-system/news/Pages/wildlife-preservation.aspx>

CBS KPIX. Study: State Sea Otter Population Could Boom If Relocated Into San Francisco Bay. 2019. <https://sanfrancisco.cbslocal.com/2019/12/22/study-state-sea-otter-population-could-boom-if-relocated-into-san-francisco-bay/>

KCBS Radio. Dec 2019. Radio Interview on sea otter recovery in San Francisco Bay.

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*For links to selected media coverage of my research go to:*  
<http://hughesecology.com>

Recent Trainings:

- Gender Bias Training with Dr. Matthew Palucci, Oct. 2018