Michael O. Navarro

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EDUCATION

Ph.D.	2014	UCSD Scripps Institution of Oceanography	Oceanography
M.Sc.	2009	California State University Fullerton	Biology
B.Sc.	2000	University of California Los Angeles	Biology

CURRENT APPOINTMENT

Associate Professor of Marine Fisheries (2023-present), Biology Program, University of Alaska Southeast, Juneau, USA

PREVIOUS APPOINTMENTS

Assistant Professor of Marine Fisheries (2016-2023), Biology Program, University of Alaska Southeast, Juneau, USA

Postdoctoral Researcher (2014-2016)**,** NSF Ocean Science Division, Geosciences Directorate, CSU Monterey Bay, USA

Graduate Researcher, (2008-2014) UCSD Scripps Institution of Oceanography (SIO), CA Sea Grant Fellow 2012-2014 and NSF IGERT Fellow 2008-2011, La Jolla, USA.
Faculty and Science Education Program Coordinator (2010-2011), Pre-college Program, SIO Director's Office and UCSD Academic Connections, La Jolla, USA.

Biologist, **Marine Region** (2007-2008), California Department of Fish and Wildlife, Santa Barbara, USA.

HONORS

Laperouse Alaska Association, Board Member (2022), Juneau, USA and St. Malo, France.

Scripps Institution of Oceanography, Honored Alumnus (2021), Center for Marine Biodiversity and Conservation, Interdisciplinary Research, La Jolla, USA.

Society Advancing Chicanos & Native Americans in Science, Linton-Poodry Leader (2018), American Association for the Advancement of Science, D.C., USA.

Áak'w Ta, Ocean Excursion Coordinator (2018) Tlíex' Yaawk International Gathering (One Canoe Conference) with culture bearers Nainoa Thompson (Hawai'i) and Dr. X̱'unei Lance Twitchell (Lingít), Juneau, USA.

National Academy of Sciences, Distinguished Young Scientist (2017) Kavli Frontiers of Science, D.C., USA

RESEARCH ACTIVITIES

PEER-REVIEWED PUBLICATIONS (*italics* = *mentee*)

Free CM, Anderson SC, Hellmers E, Muhling BA, **Navarro MO**, Richerson K, Rogers LA, Satterthwaite WH, Thompson AR, Burt JM, Gaines SD, Marshall KN, White JW, Bellquist LF (2023). Impact of the 2014-16 marine heatwave on North American West Coast fisheries: surprises and lessons from key case studies. Fish and Fisheries 4: 652-674. doi: 10.1111/faf.12753.

Ahmadia GN, Cheng S, Andradi-Brown DA, Baez SK, Barnes MD, Bennett NJ, Campbell SJ, Darling ES, Estradivari, Gill D, Gress E, Gurney G, Horigue V, Jakub R, Kennedy EV, Manajan SL, Mangubhai S, Matsuda SB, Muthiga NA, **Navarro MO**, Santodomingo N, Veverka L, Valles H, Villagomez A, Wenger A, Wosu A (2021) Limited progress in improving gender and geographic representation in coral reef science. Frontiers in Marine Science, 8:731037.

Parnell PE, Levin LA, **Navarro MO** (2020) Gauging oxygen risk and tolerance for the megafauna of the southern California shelf based on in situ observation, species mobility and seascape. ICES Journal of Marine Science, 77:1941-1952.

Navarro MO, Parnell PE, Levin LA (2018) Essential market squid (*Doryteuthis opalescens*) embryo habitat: A baseline for anticipated ocean climate change. Journal of Shellfish Research, 37:601-615.

Marlow J, Borrelli C, Jungbluth SP, Hoffman C, Marlow J, Girguis PR, Dekas A, Skarke A, Blackman D, Fornari D, Soule A, Van Dover C, Bagge L, Barco R, Boulahanais B, Bowman K, Brugler M, Bush S, Djurhuus A, Fernandez J, Fulweiler R, Kinsey J, Kocot K, McVeigh D, **Navarro M**, Netburn A, Pasulka A, Twing K, Wagener A, Zambon J (2017) Telepresence is a potentially transformative tool for field science. PNAS, 19:4841-4844.

Navarro MO, *Kwan G, Batalov O, Choi C,* Pierce NT, Levin LA (2016) Embryonic market squid, *Doryteuthis opalescens*, can develop through chronic exposure to low environmental pH and [O_2]. PLoS One, 11:e0167461.

Takeshita Y, Frieder CA, Martz TR, Ballard JR, Feely RA, Kram S, Nam S, **Navarro MO,** Price NN, Smith JE (2015) Including high frequency variability in coastal ocean acidification projections. Biogeosciences, 12:5853-5870.

Navarro MO, Bockmon EE, Frieder CA, Gonzelez J, Levin LA (2014) Development of geochemical proxies for embryonic squid statolith exposure to low O_2 and pH. Water, Special Issue: Impact of Ocean Acidification on Marine Organisms-Unifying Principles and New Paradigms, 6:2233-2254.

Robin JP, Roberts M, Zeidberg L, Bloor I, Rodriguez A, Briceño F, Downey N, Mascaró M, **Navarro MO**, *et al.* (2014) Transitions during cephalopod life history: the role of habitat, environment, functional morphology & behaviour. Advances in Marine Biology: Advances in Cephalopod Science: Biology, Ecology, Cultivation and Fisheries, 67C:361-437.

Frieder CA, Gonzalez JP, Bockmon EE, **Navarro MO**, Levin LA (2014) Semidiurnal pH variability and oxygen influence on acidification outcomes for mussel larvae. Global Change Biology, 20:754–764.

Bockmon EE, Frieder CA, **Navarro MO**, White-Kershek LA, Dickson AG (2013) Technical Note: Controlled experimental aquarium system for multistressor investigation of carbonate chemistry, oxygen saturation, and temperature. Biogeosciences, 10:5967-5975.

Navarro MO (2008) California market squid. IN: *Review of Some California Fisheries for 2007.* Sweetnam D (ed.) California Cooperative Oceanic Fisheries Investigations (CalCOFI) 2008 Report, 49:19-21.

Navarro MO, Bearzi M (2007) Effects of marine mammals on the sport fishery in Santa Monica Bay, CA. Southern California Academy of Sciences Bulletin, 106:215-217.

GOVERNMENTAL REPORTS

Navarro MO (2017) Geomorphology drives species distribution: A case study on the sandy plains of the continental shelf. NSF OCE 1421310, 5 pp.

Skarke A, Dekas A, Bagge L, Barco, R, Borreilli C, Boulahanis B, Bowman K, Brugler MR, Bush S, Djurhuus A, Fernandez JM, Fulweiler R, Hoffman CL, Jungbluth S, Kinsey JD, Kocot K, Marlow J, McVeigh D, **Navarro M**, Netburn AN, Pasulka A, Twing K, Wagner A, Zambon JB (2016) AT36 Cruise Report, Early Career Scientist Deep Submergence Training. NSF OCE 1641453, 77 pp.

SCHOLASTIC PUBLICATIONS

Navarro MO (2023) Michael Navarro. IN: Building diversity, equity and inclusion in the ocean sciences autobiographical sketches: A supplement to the 2023 December Oceanography Special Issue. Kappel, ES, B Cuker, C Garza, D Gibson, C Martinez, WF Todd, and C Xu Eds. Oceanography 36 (4: Supplement): 18. doi:10.5670/oceanog.2023.36-4-supplement.

Navarro M (2020) Supporting the next generation of scientists is part of a sustainable Alaska. Sustainable Alaska Newspaper Column, Juneau Empire, 6 November.

Navarro M (2018) Kayaking into a scientific adventure: Exploring Endicott Arm from sea level. Sustainable Alaska Newspaper Column, Juneau Empire**,** 5 October.

MANUSCRIPTS IN PREPARATION (*italics = mentee*)

Navarro MO, *Wehde D, Ekstrom M., Quealey, D*. Range expansion of a keystone species, *Doryteuthis opalescens.* Target journal: Biogeography.

Collins JM, Barbour N, *Ekstrom M, Quealey D,* Garza C, **Navarro MO**. Rippled scour depressions drive benthic megafaunal community structure of the upper continental shelf in Monterey Bay, CA. Target journal: Landscape Ecology.

Navarro MO, Neal B., *Ekstrom M.,* Meclanachan L. The historic loss of king salmon from SE Alaska trophy-fish tournaments. Target Journal: Fish and Fisheries.

Zakroff C, **Navarro MO.** How is age recorded? Physiological processes of hard structures used for age determination in Cephalopods. Target journal: ELife.

SELECT SCIENTIFIC PRESENTATIONS (***italics=mentee*, *=invited)**

Navarro MO, Yamada R, *Springer C, Roloff E, Kaufman H* (2023) Life in the fast lane: squid fishery species in Southeast Alaska. Oral session presented at: American Fisheries Society Alaska Chapter 49th Conference: 2023 Mar. 27-31, Fairbanks, USA.

Roloff E, Springer C, Kaufman H, **Navarro MO**, Yamada R (2023) Seasonal increase in size and maturity of Armhook squid, Berryteuthis magister, in Southeast Alaska. Poster session presented at: American Fisheries Society Alaska Chapter 49th Conference: 2023 Mar. 27-31, Fairbanks, USA.

Springer C, Kaufman H, Roloff E, Yamada R, **Navarro MO** (2023) Ages and Spawning Times of Berryteuthis magister Squid in Southeast Alaska. Poster session presented at:

American Fisheries Society Alaska Chapter 49th Conference: 2023 Mar. 27-31, Fairbanks, USA.

Navarro MO. Variable drivers of ocean warming along the coast of the Gulf of Alaska evidenced and tracked by a persistent range expansion of the market squid, *Doryteuthis opalescens*. Poster presented at: Ocean Sciences Meeting: Effect of warming on biological, ecological and biogeochemical ocean processes: responses from organismal to ecosystem scales session. 2020 Feb. 18-21, San Diego, USA

Cape MR, Heath HC, **Navarro M**, Wright G. Kayak oceanography as a vehicle for exploring high latitude processes and coupled human-natural systems in Southeast Alaska. Poster presented at: Ocean Sciences Meeting: Transdisciplinary Research and Education in Coastal Systems Session. 2020 Feb. 18-21, San Diego, USA

Navarro MO, Palsson W. Ocean warming along the coast of the Gulf of Alaska evidenced and tracked by a persistent range expansion of market squid, *Doryteuthis opalescens*. Oral session presented at: Cephalopod International Advisory Council Conference: 2018 Nov. 12-16, St. Petersburg, USA

Wehde D, **Navarro MO**. Pilot investigation into the age structure of market squid, *Doryteuthis opalescens*, in the Gulf of Alaska. Poster presented at: Alaska Marine Science Symposium; 2018 Jan 22-25, Anchorage, USA

Barbour N, **Navarro MO.** Spatial and temporal variability of a biological guild on the Monterey Bay sandy continental shelf during the 2015-2016 El Niño. Oral session presented at: Western Society of Naturalists Conference; 2016 Nov. 10-13, Monterey, USA.

Navarro MO, *Collins JM, Burgess C, Barbour N*, Garza C. Tracking geomorphological processes of the sandy seafloor and their associated effects on the spatial patterns of inhabitants (including market squid, *Doryteuthis opalescens*). Oral session presented at: California Cooperative Oceanic Fisheries Investigation (CalCOFI) Conference; 2015 Dec. 14-16, Moss Landing, USA.

Collins JM, **Navarro MO,** Garza C. Rippled scour depressions (RSDs) and their impacts on a dominant marine organism of the continental shelf. Poster presented at: CalCOFI Conference; 2015 Dec. 14-16, Moss Landing, USA.

Navarro MO, Parnell PE, Levin LA, Garza C. Essential embryo habitat of the market squid, *Doryteuthis opalescens* (including the first direct and continuous measurements of pH and O_2). Oral session presented at: The Cephalopod International Advisory Council Conference; 2015 Nov. 10-14, Hakodate, Japan.

***Navarro MO**, Sato K, *et al.* Habitat use, site fidelity, and migration of San Diegan fisheries in response to a changing climate. Oral session presented at: Oceans 13 International Conference, 2013, San Diego, USA.

Kwan GT, **Navarro MO,** Levin LA. Response of embryonic market squid, *Doryteuthis opalescens*, to oxygen, pH and pCO2 from upwelling margin environments. Oral session presented at the Coastal and Estuarine Research Federation Biennial Conference, 2013, 3-7 November, San Diego, USA. *Kwan won 2nd place among all undergraduate student presentations.*

Navarro MO *et al.* Low-level pH and O_2 effects on embryonic squid, *Doryteuthis opalescens*: Morphology and proxies. Oral session presented at: 3rd International Symposium on the Ocean in a high CO_2 world International Conference, 2012, Monterey, USA.

Navarro MO, Zacherl DC, Paradis G, Nezlin N, Warner RR (2008) Linking statolith chemistry of *Aplysia californica* to watershed runoff. Oral session presented at: SACNAS National Conference, 2008, Salt Lake City, USA. **Best Oral**

GRANTS AND AWARDS

Wright G, Navarro MO (2023) Supporting Interdisciplinary Undergraduate Research in Political Oceanography. Faculty Initiation Fund, $9,500.

Amundson J, Pyare S, **Navarro MO**, Nagorski S, Wright G (2020-2023) Undergraduate field studies across the icefield-to-ocean environment of Southeast Alaska. Alaska Space Grant Program, $84,924.

Tallmon D, **Navarro MO**, Tamone S, Bergstrom C (2019) UA Southeast Salmon Projects. Douglas Island Pink and Chum Hatchery directed funds through the UA Foundation, $28,500.

Navarro MO (2019) Experiential Education for STEM Undergraduates to Explore Oceanography. Alaska Space Grant Program, $22,481.

Navarro MO, Bundy R (2019) Oceanographic solutions to human-induced environmental threats to seafood security in Southeast Alaska. NSF GOLD ASPIRE Award, $21,698.

Navarro MO (2018) Ocean warming along the coast of the Gulf of Alaska evidenced and tracked by a persistent range expansion of market squid, *Doryteuthis opalescens*. CIAC International Conference, St. Petersburg, USA. Research Travel Grant: UAS Evelyn Rhoads Wilson Fund, $1,500.

Navarro MO (2018) SACNAS National Conference, San Antonio, USA. Travel Grant: Biological learning and student training, $2,000.

Navarro MO (2018) SACNAS: Funding to Increase the Underrepresented Student Pipeline in STEM at UA Southeast. UA Southeast Innovation Fund, $1,995.

Navarro MO, Tamone S (2018) Auke Bay Marine Training Center for Undergraduate Fisheries Research. Douglas Island Pink and Chum Hatchery directed funds to PIs Navarro and Tamone through the UA Foundation, $30,000.

Navarro MO (2016-2018) Sub-Award, Alaska Technical Vocational Education Program, PI: Deans Karen Schmitt (16-17) and Paula Martin (17-18), $17,580.

Navarro MO (2017) SACNAS National Conference, Salt Lake City, USA Travel Grant: Biological learning and student training, $1,990.

Navarro MO, Pearson H (2017) Visiting Scholars: Hannah Bassett and Dave Steckler. Special "one-health" seminars for undergraduates in BIOL 492. Travel Grant: Biological learning and student training, $1,920.

Navarro MO, Tamone (2017) Visiting Scholar: Lily Simonson. Special "Art and **S**cience" seminar for undergraduates and the public in BIOL 492. Travel Grant: UAS Academic Innovation Fund, $910.

Navarro MO (2017) Geomorphology Drives Species Distribution: A Case Study Plains of the Continental Shelf. NSF Ocean Sciences Division Postdoctoral Research Fellowship Award #1421310, $10,326.

Navarro MO (2016) Climate disruption effects on the health of nearshore fisheries. Equipment Award: Biological learning and student training, $46,745.

TEACHING ACTIVITIES

UAS COURSES (*itl.=new course*)

BIOL S110: Introduction to Marine Fisheries (S17, S18, S19, S20, S21, S22)
BIOL S115: Fundamental in Biology I (F16)
BIOL S116: Fundamental in Biology II (S18, S20, S22)
BIOL S298: Research in Biology: ***Fisheries, Oceanography (S19)***
BIOL S311: Communicating Science (F18, F20, F22)
BIOL S349: ***Biological Oceanography (F17, F19, F21)***
BIOL S362: Genetics (F16, F17, F18, F19, F20, F21, F22)
BIOL S375: Current Topics in Biology: ***Global Trends in Fisheries (S17, S19)***

BIOL S393: ***Kayak Oceanography (S19)***
BIOL S398: Research in Biology: ***Fisheries, Husbandry (S22)***
BIOL S492: Biology Seminar (S17)
BIOL S491: Internship (F19, Sum20, F20, Sum21, Sum22)
BIOL S493: ***Oceanographic Expedition (S21, S23)***
BIOL S498: Research in Biology: ***Fisheries, Oceanography (S17-S18, F19, S20, S22***)

NAVARRO LAB: STUDENTS RECOGNIZED FOR RESEARCH EXCELLENCE

Valera Y (2024 Summer, deferred from 2022 award) Marine ecological surveys using environmental DNA, UAS Idea Network of Biomedical Research Excellence Scholar, $17,500.

Springer C (Sum 2023) Armhook squid diet analysis using environmental DNA, UAS Idea Network of Biomedical Research Excellence Scholar, $17,500.

Roloff E (Sum 2023; accepted) Hydrography of Southeast Alaska to Better Understand Spawning Areas of Armhook Squid Species: *Berryteuthis magister.* Alaska Space Grant Program, $6,000

Roloff E (Sum 2023; declined) Hydrography of Southeast Alaska to Better Understand Spawning Areas of Armhook Squid Species: *Berryteuthis magister.* UAF Biomedical Learning and Student Training Scholar, $5,000

Kaufman H (Sum23) Oceanographic Expedition Internship. Hollings Preparation Program, NOAA, $4,500.

Springer C, Roloff E, Kaufman H (S23) American Fisheries Conference Travel, UAS Undergraduate Research Experience and Creative Activity Scholar, $2,500

Roloff E (S23) Armhook squid demographics, UAF Biomedical Learning and Student Training Scholar, $2,400.

Springer C (F22/S23) Age Analysis of Armhook Squid, *Berryteuthis magister*, UAF Biomedical Learning and Student Training Scholar, $4,867.

Springer C (Sum22) Analysis of Heavy Metal Contents of Armhook Squid, *Berryteuthis magister*, UAF Idea Network of Biomedical Research Excellence Scholar, $5,943.

Flunker M (2022), Zooplankton interactions with *Pleaurobrachia bachei*. Undergraduate Research Experience and Creative Activity Scholar, $1,491.

Clark M (2020) Spatiotemporal environmental variation in the epipelagic zone of a Southeast Alaskan fjord. UAS Undergraduate Research Experience and Creative Activity Scholar, $2,500.

Ekstrom M (2020) Ageing market squid (*Doryteuthis opalescens*) using statolith structures. UAS DIPAC Hatchery Ladd Macaulay Scholar and Biomedical Learning and Student Training Scholar, $7,000 and $2,490, respectively.

Quealey D (2019) Environmental impacts on eastern Pacific subtidal ecosystems. Partnership Education Program Fellow, NOAA, $5,000.

Wehde D (2018), Pilot investigation into the age structure of market squid, *Doryteuthis opalescens*, in the Gulf of Alaska. UAS Undergraduate Research Experience and Creative Activity Scholar, $240.

Sekerek V (2018) Salinity thresholds on herring otolith development. UAS Undergraduate Research Experience and Creative Activity Scholar, $1,201.

McLean T (2018) High frequency pH oscillations in the benthic region of SE Alaska, UAS Undergraduate Research Experience and Creative Activity Scholar, $2,350.

Barbour N (2016) Spatial and temporal variability of a biological guild on the Monterey Bay sandy continental shelf. CSUMB Research University Opportunities Center Scholar, CSU Monterey Bay Research Competition, 1st Place winner.

Collins J (2015) Rippled scour depressions (RSDs) and their impacts on a dominant marine organism of the continental shelf. CSUMB Research University Opportunities Center Scholar, $6,100.

NAVARRO LAB: MENTORED STUDENTS

Current Mentees: Yeraldy Valera (F21, S22, Sum24), Hunter Kaufman (F22, S23, Sum23)

Former Mentees at UAS: Charlotte Springer (S22, Sum22, F22, S23, Sum23), Emma Roloff (S22, F22, S23, Sum23), Molly Ekstrom (F18, S19, F19, S20), Mike Flunker (S22), Elizabeth Friday (S22, Sum22), Natalya Opsahl (S22), Dillon Quealey (F18, S19, Sum19, F19, S20) BSc **CL** 2022, Mikayla Clark (F19, S20) BSc 2021, now a **M.Sc. student in Oceanography at the University of Maine**, Dawn Wehde (F17, S18): B.Sc. 2018, now a **Fisheries Biologist at Norton Sound Economic Development Corporation**, Nome, AK, Vasily Sekerak (F17, S18) now at **Coastguard**. Trevor McLean (F17) B.Sc. 2018, John Taylor (S17).

Former Mentees at CSU Monterey Bay: Michael Hang M.Sc. 2016, now a **NASA Ames Research Intern**; Nicole Barbour B.Sc. 2016, now at a **Ph.D. student at Univ. of Maryland**; Jesirae Collins B.Sc. 2016, now a **GIS specialist/Biological technician at Suisun Resource Conservation District**; Chelsea Burgess B.Sc. 2016, now a **M.Sc. student at Kansas University**; Madison Heard B.Sc. 2018, Veronica Larwood B.Sc 2015

and now a Bio. Science Technician at USGS, Sacramento, CA; Elena Perez M.A.S. 2014, **Fulbright Fellow at the Darwin Institute, Galapogos Islands, and now the Environmental Resilience Lead at the World Economic Forum**.

Former Mentees at Scripps Institution of Oceanography: Brittany Jellison B.Sc. 2010, **Ph.D. 2017 from UC Davis, and, now a Assistant Professor at University of New Hampshire**; Olga Batalov B.Sc. 2012, **M.Sc. 2014, now a Senior Research Associate at Cibus LLC**, San Diego, CA, Jesse Andrews B.Sc. 2013, Ernesto Villasenor B. Sc. 2014, Garfield Kwan B.Sc. 2012, **Ph.D. Scripps, 2020, and now a NSF post doc at Scripps Institution Of Oceanography/ NOAA**; Shannon Walker M.Sc. 2016, now a **Strategic Advisor at Seattle Department of Transportation**; Mary McCormick M.Sc. 2014.

SERVICE ACTIVITIES

PROFESSIONAL

Research Program Referee:

National Science Foundation
- Ocean Sciences Division Postdoc Fellowship Reviewer (2023)
- Grant Program Panelist (2019, 2022)
- Graduate Research Fellowship Program Reviewer (2019, 2021)

Oregon SeaGrant SEED Competition Program Reviewer (2020)
MIT SeaGrant Core Research Program Reviewer (2016)

Journal Referee:

Ecosystem Health and Sustainability (2022)
Marine Fisheries Review (2021)
Fisheries Oceanography
Marine Biology
Hydrobiology
Marine Ecology
Marine and Freshwater Research
Deep Sea Research I
California Department of Fish and Wildlife Quarterly
Limnology and Oceanography

STATEWIDE

Dive Control Board Member (2018-2020, current); **Dive Control Board Chair** (2020-sum23). UA AAUS Dive Program overseeing all scientific dive activities for the University of Alaska System, UAF and UAS.

Fisheries Degree Implementation Committee Member (2017-present), UAS/UAF Joint Fisheries and Ocean Sciences, Concentration in Fisheries Science B.Sc**.** Degree Program.

SACNAS Advisor (2017-2022)**.** Society for the Advancement of Chicanos and Native Americans in Science, Alaska Chapters. Coordinate work with UAF BLaST, UAA and UAS for SACNAS activities including recruitment and student workshops.

UAS Arts, Sciences, and Humanities Faculty Representative (2019) University of Alaska Academic Structure Change Management, Fairbanks, AK. Aug 19.

UAS Member (2017-2019). University of Alaska Fisheries, Seafood, and Maritime Initiative Working Group.

Faculty Partner (2019). NOAA Partnership Education Program Alaska, Summer Research Internships for Undergraduates. Collaboration between NOAA, UAF, and UAS.

UNIVERSITY

Undergraduate Student Recruitment and Articulation Agreement with Peninsula College (2022) Port Angeles, Washington, April 5-7.

Institutional, 5-Year, Review Committee (IRC) Member (2022) Elementary Education Program, School of Education.

IRC Member (2021) Fisheries Technology, School of Career Education.

Fisheries Degree Program Coordinator (2017-2020). Coordinated during the degree programs launching years until the first student graduated in 2020.

Undergraduate Curriculum Committee Member (2017-2019), Natural Sciences Department Representative.

PUBLIC

UAS Admissions Lecturer and Science Building Tour Guide (2017-present). Lectures and tours to the public and potential students through programs such as Explore Southeast, Ready for Registration, and prospective student tours.

JD High School Ocean Science Bowl Team, Guest Presenter (2022) SE Alaska Aquaculture. Juneau, AK, Jan. 25.

Los Angeles Unified School District, Guest Presenter (2022) Virtual Career Day. Los Angeles, CA, May 26.

Tsunami Ocean Science Bowl Judge (2018) Seward, AK.

Media

Alaska Space Grant News, Fall 2020, "Oceanography program enables study of remote environments." By Carol Brzozowski

Sea Grant Alaska News, 30 Aug. 2019. "Program aims to provide Alaska Native and rural students with opportunities at NOAA." By Paula Dobbyn.

Juneau Empire, 22 Aug. 2019. "Scholar to study subsistence, university launches a new program and a rare book is donated." By Ben Hohenstatt

Undark, 14 Mar. 2018. "As Alaskan waters warm, market squid extent their reach northward." By Theresa Soley.

Juneau Empire, 17 Dec. 2017**.** "Squid fishery proposed for Southeast." By Kevin Gullufsen.

UAS Whalesong, 8 Nov. 2017. "Helping Hurricane Maria victims from 5,000 miles away." By Maria Romfoe.

Juneau Empire, 14 Oct. 2017, "Could migrating squid help Alaska predict climate change?" By Kevin Gullufsen.

Scripps Institution of Oceanography, 17 Jan. 2017**.** "Research Highlight: A story of survival." By Kate Furby

OTHER AWARDS AND HONORS

Guest Editor Invitation, Frontiers in Marine Science (2022; declined) Invitation to submit a research topic as the theme for a collection of peer-review articles.

Deep-Submergence Science Leadership Certification (2016) University-National Oceanographic Laboratory Systems, Woods Hole, USA

Marine Geosciences Leadership Certification (2015), National Science Foundation, D.C., USA

Megafauna Research Group, Principle Investigator (2012), R/V Melville (global class), California Coastal Margin, USA

Bouchet Graduate Honor Society Member (2012), Yale University, New Haven, USA

University of California Affirmative Action and Diversity Committee Member (2012-2013), Student Representative (for the entire UC-wide system), UC Office of the President, Oakland, CA

Vice-Chancellor of Scripps Institution of Oceanography Review Committee Member (2011), UCSD Chancellor's Office (only student invited by the UCSD Chancellor), La Jolla, USA

Chief Scientist (2010), R/V Sproul (regional class)**,** California Coastal Margin, USA

Outstanding Diversity Outreach Awards (2008, 2010 (2)), UCSD Chancellor's Office, La Jolla, USA

Outstanding teacher (2005), CSU Fullerton, Donald Gardner Scholarship, Fullerton, USA