

Amanda S. Kahn

Moss Landing Marine Laboratories
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EDUCATION

Ph.D. Ecology	May 2016
Department of Biological Sciences, University of Alberta, Edmonton, AB, Canada	
M.S. Marine Science	Dec 2010
Moss Landing Marine Laboratories (MLML), California State University, Monterey Bay, Seaside, CA, USA	
B.S. Biological Sciences, B.A. Chemistry	Jun 2007
California State University, East Bay, Hayward, CA, USA	

PROFESSIONAL APPOINTMENTS

Assistant Professor (San Jose State University/MLML)	2019 - present
Postdoctoral fellowship (Monterey Bay Aquarium Research Institute)	2018-2019
Postdoctoral fellowship (University of Alberta)	2016-2018

TEACHING EXPERIENCE

Instructor (at MLML unless stated otherwise) (year indicates when most recently taught)	
Scientific Writing	2020
Subtidal Ecology	2020
Population Biology	2020
Invertebrate Zoology	2019
Marine Biology (University of Alberta)	2017
Guest Lecturer in University Courses:	
Intro to Marine Science (Daytona State College)	2020
Marine Biology (University of Alberta)	2012-2015, 2018
Seminar & paper discussion course (Bamfield Marine Sciences Centre)	2014
Survey of the Invertebrates (University of Alberta)	2011
Marine Ecology (MLML)	2009
Invertebrate Zoology (San Jose State University)	2009, 2020
Teaching assistantships:	
Marine Biology (University of Alberta)	2014-2015
Invertebrate Zoology (University of Alberta)	2011, 2016
Marine Ecology (MLML)	2009
Undergraduate Mentoring:	
Mentored eight undergraduate students while part of the Leys lab	2012-2018

PUBLICATIONS

Complete publication list: <https://scholar.google.ca/citations?user=Cq1iucAAAAJ>

Archer, S.K., **A.S. Kahn**, M. Thiess, L. Law, S.P. Leys, S.C. Johannessen, C.A. Layman, L. Burke, and A. Dunham (2020). Foundation species abundance influences food web topology on glass sponge reefs. *Frontiers in Ecology and Evolution*, 7: 799. doi: 10.3389/fmars.2020.549478.

- Saxena S., Heller P., **Kahn A.S.**, and Aiello I. (2020). Poriferal Vision: classifying benthic sponge spicules to assess historical impacts of marine climate change. In: Helic D, Leitner G, Stettinger M, Felfernig A, Raš ZW (eds) *Foundations of Intelligent Systems*. Proc International Symposium on Methodologies for Intelligent Systems. Springer, Cham. Vol 121117:205-213. doi: 10.1007/978-3-030-59491-6_19.
- Law, L.K., H.M. Reiswig, B.S. Ott, N. McDaniel, **A.S. Kahn**, K.C. Guillas, C. Dinn, and S.P. Leys (2020). Description and distribution of *Desmacella hyalina* sp. nov. (Porifera, Desmacellidae), a new cryptic demosponge in glass sponge reefs from the western coast of Canada. *Marine Biodiversity*, 50:1-20, doi: 10.1007/s12526-020-01076-6.
- Kahn, A.S.**, C.W. Pennelly, and S.P. Leys (2020). Behaviors of sessile benthic animals in the abyssal Northeast Pacific Ocean. *Deep Sea Research Part II: Topical Studies in Oceanography*, 173: 104729, doi: 10.1016/j.dsr2.2019.104729.
- Guillas, K.C., **A.S. Kahn**, N. Grant, S.K. Archer, A. Dunham, S.P. Leys (2019). Settlement of juvenile glass sponges and other invertebrate cryptofauna on the Hecate Strait glass sponge reefs. *Invertebrate Biology*, 138(4):e12266, doi: 10.1111/ivb.12266.
- Leys, S.P., J.L. Mah, P.R. McGill, L. Hamonic, and **A.S. Kahn** (2019). Sponge behavior and the chemical basis of responses: a post-genomic view. *Integrative and Comparative Biology*, 59(4):751-764, doi: 10.1093/icb/icz122.
- Grant, N., E. Matveev, **A.S. Kahn**, S.K. Archer, A. Dunham, R. Bannister, D. Eerkes-Medrano, and S.P. Leys (2019). Effect of suspended sediments on the pumping rates of three species of glass sponge *in situ*. *Marine Ecology Progress Series*, 615:79-101.
- Leys, S.P., and **A.S. Kahn** (2018). Oxygen and the energetic requirements of the first multicellular animals. *Integrative and Comparative Biology*, 58(4):666-676, doi: 10.1093/icb/icy051.
- Kahn, A.S.**, and J.B. Geller (2018). Partial mitochondrial genome sequences of two abyssal sponges (Porifera, Hexactinellida): *Bathydorus laniger* and *Docosaccus maculatus*. *Genome Announcements* 6e:00234-18, doi: 10.1128/genomeA.00234-18.
- Grant, N., E. Matveev, **A.S. Kahn**, S.P. Leys (2018). Suspended sediment causes feeding current arrests *in situ* in the glass sponge *Aphrocallistes vastus*. *Marine Environmental Research*, 137:111-120, doi: 10.1016/j.marenvres.2018.02.020.
- Kahn, A. S.**, J.W.F. Chu, and S.P. Leys (2018). Trophic ecology of glass sponge reefs in the Strait of Georgia, British Columbia. *Scientific Reports* 8:756, doi: 10.1038/s41598-017-19107-x.
- Archer, S.K., **A.S. Kahn**, T. Norgard, F. Girard, C. Du Preez, and A. Dunham (2018). Pyrosome consumption by benthic organisms during blooms in the NE Pacific and Gulf of Mexico. *Ecology*, 99(4):981-984, doi: 10.1002/ecy.2097.

- Leys, S.P., **A.S. Kahn**, J.K.H. Fang, T. Kutti, and R. Bannister (2017). Phagocytosis of microbial symbionts balances the carbon and nitrogen budget for the deep-water boreal sponge *Geodia barretti*. *Limnology and Oceanography*, doi:10.1002/lno.10623.
- Kahn, A.S.**, and S.P. Leys (2017). Spicule and flagellated chamber formation in a growth zone of *Aphrocallistes vastus* (Porifera; Hexactinellida). *Invertebrate Biology*, 136(1): 22-30.
- Kahn, A.S.**, and S.P. Leys (2016). The role of cell replacement in benthic-pelagic coupling by suspension feeders. *Royal Society Open Science* 3(11), 160484, doi: 10.1098/rsos.160484.
- Kahn, A.S.**, L. Vehring, R.R. Brown, and S.P. Leys (2016). Dynamic change, recruitment, and resilience in reef-forming glass sponges. *Journal of the Marine Biological Association of the United Kingdom*, 96(2):429-436.
- Kahn, A.S.**, G. Yahel, V. Tunnicliffe, and S.P. Leys (2015). Benthic grazing and carbon sequestration by deep-water glass sponge reefs. *Limnology and Oceanography*, 60(1):78-88.
- Kahn, A.S.**, J.B. Geller, H.M. Reiswig, and K. L. Smith, Jr. (2013). *Bathydorus laniger* and *Docosaccus maculatus* (Lyssacinosa; Hexactinellida): Two new species of glass sponges from the abyssal eastern North Pacific Ocean. *Zootaxa*, 3646:386-400.
- Kahn, A.S.**, H.A. Ruhl, and K.L. Smith, Jr. (2012). Temporal changes in plate sponge populations in the abyssal northeast Pacific. *Deep-Sea Research Part I*, 70:36-41.
- Kahn, A.S.**, G.I. Matsumoto, Y.M. Hirano, and A.G. Collins (2010). *Haliclystus californiensis*, a “new” species of stauromedusa (Cnidaria: Staurozoa) from the northeast Pacific, with a key to the species of *Haliclystus*. *Zootaxa*, 2518:49-59.
- Patty, C., B. Barnett, B. Mooney, **A. Kahn**, S. Levy, Y. Liu, P. Pianetta, and J. Andrews (2009). Using X-ray microscopy and Hg L₃ XANES to study Hg binding in the rhizosphere of *Spartina* cordgrass. *Environmental Science and Technology*, 43(19):7397-7402.

GRANTS

2019-2021 California Sea Grant (R/MPA-48). Monitoring and evaluation of mid-depth rocky reef ecosystems in the MLPA marine protected area (~\$606,000 to MLML [\$2.4 M total]). Lead PI is Richard Starr (MLML/San Jose State University); Co-PIs Jennifer Caselle (UC Santa Barbara), Andrew Lauermaann (Marine Applied Research and Exploration), James Lindholm (CSU Monterey Bay), and Brian Tissot (Humboldt State University).

RELEVANT SKILLS

- AAUS Scientific Diver (NAUI Master Scuba Diver, PADI Rescue Diver):

SERVICE AND OUTREACH

Departmental Service

Animal Care and Use Committee, member	2019-
Curriculum Committee, member	2020-
Development and Outreach Committee, chair	2020-
Dive Control Board, co-chair	2019-
Diversity, Equity, and Inclusion Committee, co-chair	2020-
Small Boats/Marine Operations Committee, member	2020-
Technology Advisory Committee, member	2020-

Service to the Greater Scientific Community

- Local organizer, Western Society of Naturalists 2020 meeting
- Journal article reviewer for: Canadian Field Naturalist, Deep-Sea Research I, Deep-Sea Research II, Journal of Coastal Development, Journal of the Marine Biological Association of the United Kingdom, Limnology and Oceanography, Marine Ecology Progress Series, PLoS One, Progress in Oceanography, Scientific Reports, Sea Research, Systematics and Biodiversity.
- Co-organizer of the special session “Food Web Interactions and Trophic Linkages” at the Association for the Sciences of Limnology and Oceanography (ASLO) meeting, 2018.
- Student/Postdoc Representative for the Evolutionary and Developmental Biology division in the Society for Integrative and Comparative Biology (SICB). September 2014 – January 2017.

Outreach

- 1) Science mentor with the Monterey Bay Aquarium WATCH (Watsonville Area Teens Conserving Habitats) program (AY 2018-2019). This year-long program partners small groups of high school students with science mentors that help them develop research projects in the Elkhorn Slough National Estuarine Research Reserve. I was a mentor for a group of 3 students that studied pumping rates and clearance rates of 3 species of intertidal sponges in Elkhorn Slough.
- 2) Commitment to public outreach, including to underrepresented groups in STEM. Invited speaker to speak about science (MBARI Open House 2018, TELUS World of Science Edmonton 2013) and topics outside of my research: in science communication (University of Guelph science communication course, 2019), career panel (MLML, 2018), Women in STEM club (Monterey Peninsula College, 2018), workshop organizer and creator of “Fantastic Deep-Sea Beasts and Where to Find Them” at the Expanding Your Horizons STEM conference, 2018). Podcast interview: Blago’s Round Table 2-part podcast: Deep Sea Sponges and the Origins of Life (https://www.youtube.com/watch?v=vfRII_8VX94) and Threats Facing the Oceans, Forming a Counter Attack (https://www.youtube.com/watch?v=JVN32_LbXK0).