

## Kevin M. Kocot, Ph.D.

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### CURRENT APPOINTMENTS

1/2016-present Assistant Professor, Department of Biological Sciences, University of Alabama (UA)  
1/2016-present Curator of Invertebrate Zoology, Alabama Museum of Natural History

### EDUCATION & POSTDOCTORAL TRAINING

1/2014 - 12/2015 Postdoctoral Researcher, University of Queensland (UQ). PI: Dr. Bernie Degnan.  
5/2013 - 12/2013 Postdoctoral Researcher, Auburn University (AU). PI: Dr. Ken Halanych.  
8/2007 - 5/2013 Ph.D. in Molecular Biology, AU. Dissertation title: A combined approach toward resolving the phylogeny of Mollusca. Committee: Drs. Ken Halanych (chair), Scott Santos, Leslie Goertzen, Jason Bond, and Christiane Todt.  
8/2002 - 12/2006 B.S. in Biological Sciences, Illinois State University (ISU).

### PEER-REVIEWED JOURNAL ARTICLES

1. Varney, R.M.\*, B. Brenzinger, M.A.E. Malaquias, C.P. Meyer, M. Schrödl, and **K.M. Kocot**. Submitted to *BMC Evolutionary Biology*. Assessment of mitochondrial genomes for heterobranch gastropod phylogenetics.
2. Varney, R.M.\*, D.I. Speiser, C. McDougall, B.M. Degnan, and **K.M. Kocot**. Submitted to *Genome Biology and Evolution*. The iron responsive genome of the chiton *Acanthopleura granulata* (Mollusca, Aculifera).
3. Cobo, M.C.\* and **K.M. Kocot**. Submitted to *Zootaxa*. On the diversity of abyssal Dondersiidae (Mollusca, Aplacophora) with the description of a new genus, seven new species, and a review of the family.
4. Taylor, J., Devey, C., Le Saout, M., Petersen, S., M., Frutos, I., I., Linse, K., Loerz, A.-N., Pałgan, D., Tandberg, A.H., Svavarsson, J., Thorhallsson, D., Tomkowicz, A., Egilsdottir, H., Ragnarsson, S.A., Renz, J., Markasheva, L., Gollner, S., Paulus, E., Diaz, G., Tato, R., Kongsrud, J., Beermann, J., **Kocot, K.M.**, Meißner, K., Bartholomä, A., Hoffman, L., Vannier, P., Marteinsson, V., Rapp H.T. & Brix, S. Manuscript in revision for *Frontiers in Marine Science*. The geological and faunal composition of Steinahóll Vent Sites, Reykjanes Ridge, Iceland.
5. Kong, L., Y. Li, **K.M. Kocot**, Y. Yang, L. Qi, Q. Li, and K.M. Halanych. 2020. Mitogenomics reveals phylogenetic relationships of Arcoida (Mollusca, Bivalvia) and multiple independent expansions and contractions in mitochondrial genome size. *Molecular Phylogenetics and Evolution* 150:106857.
6. Cobo, M.C.\* and **K.M. Kocot**. 2020. *Micromenia amphiatlantica* sp. nov.: First solenogaster (Mollusca, Aplacophora) with an amphi-Atlantic distribution and insight into abyssal solenogaster diversity. *Deep Sea Research Part I* 157:103189.
7. **Kocot, K.M.**, A.J. Poustka, I. Stöger, K.M. Halanych, and M. Schrödl. 2020. New data from Monoplacophora and a carefully-curated dataset resolve molluscan relationships. *Scientific Reports* 10:101.
8. Laumer, C.E., R. Fernández, S. Lemer, D. Combosch, **K.M. Kocot**, A. Riesgo, S.C.S. Andrade, W. Sterrer, M.V. Sørensen, and G. Giribet. 2019. Revisiting metazoan phylogeny with genomic sampling of all phyla. *Proceedings of the Royal Society B: Biological Sciences* 286: 20190831.
9. Varney, R.M.\*, P. Funch, **K.M. Kocot**, and M.V. Sørensen. 2019. A new species of *Echinoderes* (Cyclorhagida: Echinoderidae) from the San Juan Islands, Washington State, USA, and insights into the kinorhynch transcriptome. *Zoologischer Anzeiger* 282: 52-63.
10. Smythe, A.B., O. Holovachov, and **K.M. Kocot**. 2019. Improved phylogenomic sampling of free-living nematodes enhances resolution of higher-level nematode phylogeny. *BMC Evolutionary Biology* 19:121.
11. Sogabe, S., W. L. Hatleberg, **K.M. Kocot**, T. E. Say, D. Stoupin, K. Roper, S. Fernandez-Valverde, S. M. Degnan, and B. M. Degnan. 2019. Pluripotency and the origin of animal multicellularity. *Nature*. 570: 519-522.
12. **Kocot, K.M.**, C. Todt, N.T. Mikkelsen, and K.M. Halanych. 2019. Phylogenomics of Aplacophora (Mollusca, Aculifera) and a solenogaster without a foot. *Proceedings of the Royal Society B: Biological Sciences* 286(1902):20190115.
13. Mikkelsen, N.T., C. Todt, **K.M. Kocot**, K.M. Halanych, and E. Willassen. 2018. Molecular phylogeny of Caudofoveata (Mollusca) challenges traditional views. *Molecular Phylogenetics and Evolution* 132: 138-150.

14. Galaska, M.P., Y. Li, **K.M. Kocot**, A.R. Mahon, and K.M. Halanych. 2019. Conservation of mitochondrial genome arrangements in brittle stars (Echinodermata, Ophiuroidea). *Molecular Phylogenetics and Evolution* 130:115-120.
15. Li, Y., **K.M. Kocot**, M.G. Tassia, J.T. Cannon, M. Bernt, and K.M. Halanych. 2018. Mitogenomics reveals a novel genetic code in Hemichordata. *Genome Biology and Evolution* evy254.
16. Pabst, E.A.\* and **K.M. Kocot**. 2018. Phylogenomics confirms monophyly of Nudipleura (Gastropoda: Heterobranchia). *Journal of Molluscan Studies* 84(3): 259–265.
17. Mikkelsen, N.T., **K. M. Kocot**, and K.M. Halanych. 2018. Mitogenomics reveals phylogenetic relationships of caudofoveate aplousobranchian molluscs. *Molecular Phylogenetics and Evolution*. 127: 429-436.
18. Rodriguez, J., T.P. Jones, P. Sierwald, P.E. Marek, W.A. Shear, M.S. Brewer, **K.M. Kocot**, and J.E. Bond. 2018. Step-wise evolution of complex chemical defenses in millipedes: a phylogenomic approach. *Scientific Reports* 8: 3209.
19. **Kocot, K.M.**, Tassia, M.G., Halanych, K.M. and Swalla, B.J., 2018. Phylogenomics offers resolution of major tunicate relationships. *Molecular Phylogenetics and Evolution* 121: 166-173.
20. Kersken, D., **K.M. Kocot**, D. Janussen, T. Schell, M. Pfenninger, and P.M. Arbizu. 2018. First insights into the phylogeny of deep-sea glass sponges (Hexactinellida) from polymetallic nodule fields in the Clarion-Clipperton Fracture Zone (CCFZ), northeastern Pacific. *Hydrobiologia* 108: 101-112.
21. Whelan, N.V., **K. M. Kocot**, T. P. Moroz, K. Mukherjee, P. Williams, G. Paulay, L. L. Moroz and K. M. Halanych. 2017. Ctenophore relationships and their placement as the sister group to all other animals. *Nature Ecology & Evolution* 1(11): 1737.
22. Marlow, J., Borrelli, C., Jungbluth, S.P., Hoffman, C., Marlow, J., Girguis, P.R., and the AT36 Team. 2017. Opinion: Telepresence is a potentially transformative tool for field science. *Proceedings of the National Academy of Sciences* 114: 4841-4844.
23. Hall, M.R., **K.M. Kocot**, K.W. Baughman, S.L. Fernandez-Valverde, M.E.A. Gauthier, W.L. Hatleberg, A. Krishnan, C. McDougall, C.A. Motti, E. Shoguchi, T. Wang, X. Xiang, M. Zhao, U. Bose, C. Shinzato, K. Hisata, M. Fujie, M. Kanda, S.F. Cummins, N. Satoh, S.M. Degnan, and B.M. Degnan. 2017. The crown-of-thorns starfish genome as a guide for biocontrol of this coral reef pest. *Nature* 544: 231-234.
24. Halanych, K.M. and **K.M. Kocot**. 2017. Genome evolution: Shellfish genes. *Nature Ecology and Evolution* 1:0142.
25. Voolstra, C.R., GIGA Community of Scientists, G. Wörheide, and J.V. Lopez. 2017. Advancing genomics through the Global Invertebrate Genomics Alliance (GIGA). *Invertebrate Systematics*, 31(1): 1-7.
26. Tanner, A.R., D. Fuchs, I.E. Winkelmann, M.T.P. Gilbert, M.S. Pankey, A.M. Ribeiro, **K.M. Kocot**, K.M. Halanych, T.H. Oakley, R.R. da Fonseca, D. Pisani, J. Vinther. 2017. Molecular clocks indicate turnover and diversification of modern coleoid cephalopods during the Mesozoic Marine Revolution. *Proceedings of the Royal Society B: Biological Sciences* 284: 20162818.
27. Stöger, I., **Kocot, K.M.**, Poustka, A.J., Wilson, N.G., Ivanov, D., Halanych, K.M., and Schrödl, M. 2017. Monoplacophoran mitochondrial genomes: convergent gene arrangements and little phylogenetic signal. *BMC Evolutionary Biology* 16:274.
28. **Kocot K.M.**, T.H. Struck, J. Merkel, D.S. Waits, C. Todt, P.M. Brannock, D.A. Weese, J.T. Cannon, L.L. Moroz, B. Lieb, and K.M. Halanych. 2017. Phylogenomics of Lophotrochozoa with consideration of systematic error. *Systematic Biology* 66(2): 256-282.
29. Li, Y., **K.M. Kocot**, N.V. Whelan, S.R. Santos, D.S. Waits, D.J. Thornhill, and K.M. Halanych. 2016. Phylogenomics of tubeworms (Siboglinidae, Annelida) and comparative performance of different reconstruction methods. *Zoologica Scripta* 46(2): 200–213.
30. **Kocot, K.M.**, F. Aguilera, C. McDougall, D.J. Jackson, and B.M. Degnan. 2016. Sea shell diversity and rapidly evolving secretomes: insights into the evolution of biomineralization. *Frontiers in Zoology* 13(1): 1.
31. Garrison, N.L., J. Rodriguez, I. Agnarsson, J.A. Coddington, C.E. Griswold, C.A. Hamilton, M. Hedin, **K.M. Kocot**, J.M. Ledford, and J.E. Bond. 2016. Spider phylogenomics: untangling the Spider Tree of Life. *PeerJ* 4:e1719.
32. Halanych, K. M., N.V. Whelan, **K.M. Kocot**, A.B. Kohn, and L. L. Moroz. 2016. Miscues misplace sponges. *Proceedings of the National Academy of Sciences*, 201525332.
33. **Kocot, K.M.** 2016. On 20 years of Lophotrochozoa. *Organisms Diversity and Evolution*, 16: 329-343.
34. Whelan, N.V., **K.M. Kocot**, L.L. Moroz, and K.M. Halanych. 2015. Employing phylogenomics to resolve basal animal phylogeny. *Integrative and Comparative Biology* 55(6): 1084-1095.
35. Whelan, N.V., **K.M. Kocot**, L.L. Moroz, and K.M. Halanych. 2015. Error, signal, and the placement of Ctenophora sister to all other animals. *Proceedings of the National Academy of Sciences* 112(18): 5773-5778.

36. Havird, J.C., **K.M. Kocot**, P.M. Brannock, J.T. Cannon, D.S. Waits, D.A. Weese, S.R. Santos, and K.M. Halanych. 2015. Reconstruction of cyclooxygenase evolution in animals suggests variable, lineage-specific duplications, and homologs with low sequence identity. *Journal of Molecular Evolution* 80(3-4): 1-16.
37. Li, Y., **K.M. Kocot**, S.R. Santos, D.J. Thornhill, and K.M. Halanych. 2015. Mitogenomics reveals phylogeny and dramatic size variations of control regions in the deep-sea family Siboglinidae (Annelida). *Molecular Phylogenetics and Evolution* 85: 221-229.
38. **Kocot, K.M.** and C. Todt. 2014. Three new species of meiofaunal solenogasters (Mollusca, Aplacophora) from Friday Harbor, WA, USA. *Journal of Natural History* 48: 3007-3031.
39. Whelan, N.V. **K.M. Kocot**, S.R. Santos, and K.M. Halanych. 2014. Nemertean toxin genes revealed through transcriptome sequencing. *Genome Biology and Evolution* 6(12):3314-3325.
40. Cannon, J.T., **K.M. Kocot**, D.S. Waits, D.A. Weese, B.J. Swalla, S.R. Santos, and K.M. Halanych. 2014. Phylogenomic Resolution of the hemichordate and echinoderm clade. *Current Biology* 24(23): 2827-2832.
41. Halanych, K.M. and **K.M. Kocot**. 2014. Repurposed transcriptomes facilitate discovery of innate immunity Toll-Like Receptor (TRLs) genes across Lophotrochozoa. *Biological Bulletin* 227.2: 201-209.
42. Todt, C. and **K.M. Kocot**. 2014. New records for *Proneomenia sluiteri* (Mollusca: Solenogastres) from Iceland and description of a new species, the brooding *Proneomenia custodiens* n. sp. *Polish Journal of Polar Research* 35(2): 291-310.
43. Brix, S., K. Meißner, B. Stransky, K.M. Halanych, R. Jennings, **K. Kocot**, and J. Svavarsson. 2014. The idea of the IceAGE project – a follow up of BIOICE. *Polish Journal of Polar Research* 35(2): 141-150.
44. Moroz, L.L., **K.M. Kocot**, M.R. Citarella, S. Dosung, T.P. Norekian, I.S. Povolotskaya, A.P. Grigorenko, C. Dailey, E. Berezikov, K. Buckley, D. Reshetov, A. Ptitsyn, K. Mukherjee, T.P. Moroz, E. Dabe, F. Yu, V.V. Kapitonov, J. Jurka, Y. Bobkov, J.J. Swore, D.O. Girardo, R. Bruders, C.E. Mills, V.V. Solovyev, J. Rast, B. J. Swalla, F.A. Kondrashov, J.V. Sweedler, E.I. Rogaev, K.M. Halanych, and A.B. Kohn. 2014. The genome of the ctenophore and the emergence of nervous systems. *Nature* 510: 109-114.
45. Doty, K.E., A.M. Betzelberger, **K.M. Kocot**, and M.E. Cook. 2014. Immunofluorescence localization of the tubulin cytoskeleton during cell division and cell growth in members of the coleochaetales. *Journal of Phycology* 50(4): 624-639.
46. **Kocot, K.M.**, M.R. Citarella, L.L. Moroz, and K.M. Halanych. 2013. PhyloTreePruner: a phylogenetic tree-based approach for selection of orthologous sequences for phylogenomics. *Evolutionary Bioinformatics* 2013(9): 429-435.
47. **Kocot, K.M.**, K.M. Halanych, and P.J. Krug. 2013. Phylogenomics supports the Panpulmonata hypothesis: Resolving key steps in the evolutionary radiation of gastropod molluscs. *Molecular Phylogenetics and Evolution* 69(3): 764-771.
48. **Kocot, K.M.** 2013. Recent advances and unanswered questions in deep molluscan phylogenetics. *American Malacological Bulletin* 31(1): 1-14.
49. Scheltema, A.M., C. Schander, and **K.M. Kocot**. 2012. Hard and soft anatomy in two genera of Dondersiidae (Mollusca, Aplacophora, Solenogastres). *Biological Bulletin* 222: 233-269.
50. Kohn, A.B., M.R. Citarella, **K.M. Kocot**, Y.V. Bobkova, K.M. Halanych, and Leonid L Moroz. 2012. Rapid evolution of the compact and unusual mitochondrial genome in the ctenophore, *Pleurobrachia bachei*. *Molecular Phylogenetics and Evolution* 63: 203-207.
51. Pierce, S.K., X. Fang, J.A. Schwartz, X. Jiang W. Zhao, N.E. Curtis, **K.M. Kocot**, B. Yang, and J. Wang. 2011. Transcriptomic evidence for the expression of horizontally transferred algal nuclear genes in the photosynthetic sea slug, *Elysia chlorotica*. *Molecular Biology and Evolution* 29(6): 1545-1556.
52. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S.R. Santos, L.L. Moroz, B. Lieb, and K.M. Halanych. 2011. Phylogenomics reveals deep molluscan relationships. *Nature* 477: 452-456.
53. **Kocot, K.M.** and S.R. Santos. 2009. Secondary structural modeling of the second internal transcribed spacer (ITS2) from *Pfiesteria*-like dinoflagellates (Dinophyceae). *Harmful Algae* 8(3):441-446.
54. Jannot, J.E., J. Brinton, **K.M. Kocot**, O. Akman, and S.A. Juliano. 2009. Ontogenetic mechanisms underlying a geographic size cline in a grasshopper, *Romalea microptera*. *Annals of the Entomological Society of America* 102(3) 467-475.

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## PEER-REVIEWED BOOK CHAPTERS

1. **Kocot, K.M.**, C. McDougall, and B.M. Degnan. 2016. Developing Perspectives on Molluscan Shells, Part 1: Introduction and Molecular Biology. *Physiology of Molluscs*. S. Saleuddin, Ed. Apple Academic Press, Waretown, NJ, USA.
2. Cannon, J.T., and **K.M. Kocot** 2016. Phylogenomics using transcriptome data. *Methods in Molecular Biology*. 1452(*Marine Genomics: Methods and Protocols*): 65-80.
3. **Kocot, K.M.**, J.T. Cannon, and K.M. Halanych. 2010. Elucidating animal phylogeny: advances in knowledge and forthcoming challenges. In: *Key Transitions in Metazoan Evolution*. B. Schierwater and R. DeSalle Eds. Science Publishers, Ensfield, NH, USA.

## PEER-REVIEWED NOTES & SHORT COMMUNICATIONS

1. **Kocot, K.M.**, T. Wollesen, R.M. Varney\*, M.L. Schwartz, G. Steiner, and A. Wanninger. 2019. Complete mitochondrial genomes of two scaphopod molluscs. *Mitochondrial DNA Part B* 4(2): 3161-3162.
2. **Kocot, K.M.**, 2017. Introduction to the AMS Symposium “Phylogenomics of Mollusks,” 82nd Annual Meeting of the American Malacological Society. *American Malacological Bulletin*, 35(1): 70-72.
3. **Kocot, K.M.**, N.W. Jeffery, K. Mulligan, K.M. Halanych, and T.R. Gregory. 2015. Genome size estimates for Aplacophora, Polyplacophora and Scaphopoda: small solenogasters and sizeable scaphopods. *Journal of Molluscan Studies* 82(1): 216-219
4. **Kocot, K.M.** and K.M. Halanych. 2009. Investigation of molluscan phylogeny using nuclear protein-coding genes. *The Malacologist* 53: 18-20.
5. **Kocot, K.M.**, J.L. Baldwin, R.L. Preston, and G.W. Kidder. 2005. The efficacy of wire minnow traps in assessing populations of *Fundulus heteroclitus*. *Bulletin of the Mount Desert Island Biological Laboratory* 44:65-66.

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## PRESENTATIONS

1. **Kocot, K.M.** 2020. Biodiversity, Systematics, and Genomics of the Molluscs (talk). University of Alabama, Department of Biological Sciences, Tuscaloosa, AL. **Tenure talk.**
2. **Kocot, K.M.** 2020. Revolutionizing Biodiversity and Systematics Research on Aplacophora (Mollusca) and Training the Next Generation of Invertebrate Systematists (talk). Deep Sea Biology Society eDSBS (held online via Zoom and Thinkific).
3. **Kocot, K.M.** 2020. Revolutionizing Biodiversity and Systematics Research on Aplacophora (Mollusca) and Training the Next Generation of Invertebrate Systematists (talk). MeioLive! (held online via Zoom).
4. **Kocot, K.M.** and V. Gonzales. 2020. Genome Assembly and Annotation. Spiraliabase Virtual Lab Meeting (held online via Zoom).
5. Batts, E., K. Whitman, and **K.M. Kocot**. 2020. Biodiversity of Icelandic Euphrosinidae (poster). UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
6. Bond, C., T. Hawkins, and **K.M. Kocot**. 2020. Determining the biodiversity around Iceland and Norway of *Wirenia argentea* (Mollusca, Solenogastres) (poster). UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
7. Pruett, C.D., M.K. Yap-Chiongco, R.M. Varney, N.T. Mikkelsen, and **K.M. Kocot**. 2020. Creating an effective annotation pipeline for aculiferan mollusc genomes (poster). UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
8. Lackey, K., D.W. Lam, **K.M. Kocot**, K.K. Heinrich, and T.W. Hodges. 2020. Bama Biology Bootcamp (B3) Lessons Learned (poster). Biology Leadership Conference, Fort Myers, FL.
9. Roberts, N.G.\* and **K.M. Kocot**. 2020. Developing and Analyzing Key Genomic Resources to Resolve the Lophotrochozoan Tree of Life (poster). Society of Systematic Biologists, Gainesville, FL.
10. **Kocot, K.M.** 2020. Revolutionizing Biodiversity and Systematics Research on Aplacophora (Mollusca) and Training the Next Generation of Invertebrate Systematists (talk). Society of Integrative and Comparative Biology, Austin, TX.
11. McCutcheon, M.G.\* and **K.M. Kocot**. 2020. Uncovering the Biodiversity of New Zealand Aplacophora (poster). Society of Integrative and Comparative Biology, Austin, TX.
12. Varney, R.M.\*, D.I. Speiser, C. McDougall, B.M. Degnan, and **K.M. Kocot**. 2020. The genome of the chiton *Acanthopleura granulata*: an Aculiferan perspective on molluscan mineralization (talk). Society for Integrative and Comparative Biology, Austin TX.

13. Varney, R.M.\*, A.C.N. Kingston, **K.M. Kocot**, and D.I. Speiser. 2020. Localized physiological changes regulate the biomineralization of magnetite in the radula of the chiton *Acanthopleura granulata* (poster). Society for Integrative and Comparative Biology, Austin TX.
14. Yap-Chiongco, M.K.\*, R.M. Varney\*, and **K.M. Kocot**. 2020. What the shell-less aplacophorans can tell us about molluscan biomineralization (talk). Society for Integrative and Comparative Biology, Austin TX.
15. **Kocot, K.M.** 2020. Comparative, evolutionary, and phylogenomics of the molluscs and friends (talk). Spiralian White Paper Meeting, St. Augustine, FL. **Invited talk.**
16. Varney, R.M.\*, A.C.N. Kingston, **K.M. Kocot**, and D.I. Speiser. 2019. Localized physiological changes regulate the biomineralization of magnetite in the radula of the chiton *Acanthopleura granulata* (poster). University of Alabama Department of Biological Sciences BioFest, Tuscaloosa, AL.
17. Yap-Chiongco, M.K.\*, R.M. Varney\*, and **K.M. Kocot**. 2019. The Use of Aplacophoran Comparative and Evolutionary Genomics to Study Molluscan Biomineralization (poster). University of Alabama Department of Biological Sciences BioFest, Tuscaloosa, AL.
18. McCutcheon, M.G.\* and **K.M. Kocot**. 2019. A closer look at the aplacophoran biodiversity in New Zealand (poster). University of Alabama Department of Biological Sciences BioFest, Tuscaloosa, AL.
19. Varney, R.M.\*, M.K. Yap-Chiongco\*, N.T. Mikkelsen, S. Pirro, D.I. Speiser, and **K.M. Kocot**. 2019. A cost-effective strategy to obtain highly contiguous aculiferan mollusc genomes enables broader investigations of an understudied group (poster). Pearls of Wisdom Royal Society Molluscan Genomics Meeting, Milton Keynes, United Kingdom.
20. Yap-Chiongco, M.K.\*, R.M. Varney\*, and **K.M. Kocot**. 2019. The Use of Aplacophoran Comparative and Evolutionary Genomics to Study Molluscan Biomineralization (poster). International Seminar on Biodiversity and Evolution of Molluscs, Vladivostok, Russia.
21. Cannon, J.T., K.M. Kocot, D.J. Eernisse, D.I. Speiser, and T.H. Oakley. 2019. Target capture phylogenomics of Polyplacophora (poster). World Congress of Malacology, Pacific Grove, CA.
22. **Kocot, K.M.** 2019. Revolutionizing Biodiversity and Systematics Research on Aplacophora and Training the Next Generation of Malacologists (talk). World Congress of Malacology, Pacific Grove, CA.
23. McCutcheon, M.G.\* and **K.M. Kocot**. 2019. A closer look at the aplacophoran biodiversity in New Zealand (poster). World Congress of Malacology, Pacific Grove, CA.
24. Varney, R.M., D.I. Speiser, and **K.M. Kocot**. 2019. The genome of the chiton *Acanthopleura granulata*: an aculiferan perspective of molluscan biomineralization (talk). World Congress of Malacology, Pacific Grove, CA.
25. Yap-Chiongco, M.K.\*, R.M. Varney\*, and **K.M. Kocot**. 2019. Draft Genome of *Neomenia megatrapezata* (Solenogastres) as a Tool to Study Aculiferan Sclerite Biomineralization (poster). World Congress of Malacology, Pacific Grove, CA.
26. **Kocot, K.M.** Biodiversity, Systematics, and Genomics of the Molluscs. University of Vienna, Vienna, Austria. **Invited Seminar.**
27. **Kocot, K.M.** Biodiversity, Systematics, and Genomics of the Molluscs. Oregon Institute of Marine Biology, Charleston, OR. **Invited Seminar.**
28. **Kocot, K.M.** Biodiversity & Systematics of the Aplacophoran Molluscs. 2019. Southern California Association of Marine Invertebrate Taxonomists (talk). Los Angeles, CA. **Invited remote seminar (via Skype).**
29. **Kocot, K.M.** 2019. Biodiversity, Systematics, and Genomics of the Aculiferan Molluscs (talk). Lehigh University Department of Biological Sciences, Bethlehem, PA. **Invited seminar.**
30. Pabst, E.\* and **K.M. Kocot**. 2019. Are Ultraconserved Elements an Informative Phylogenetic Marker in Molluscs? (poster). UA Undergraduate Research and Creative Activity Conference, Tuscaloosa, AL.
31. Partain, R.E.\* and **K.M. Kocot**. 2019. Using microscopy and histology to describe a novel species of *Wirenia* (Mollusca, Aplacophora) from New Zealand. UA Undergraduate Research, Scholarship, and Creative Activity Conference, Tuscaloosa, AL.
32. Pruetz, C.\*, C.L. Atkinson, and **K.M. Kocot**. 2019. Discovery of a Mobile Basin population of the critically endangered Fat Threeridge Mussel (*Amblema neislerii*). UA Undergraduate Research and Scholarly Creative Activity Conference, Tuscaloosa, AL.
33. **Kocot, K.M.** 2019. Biodiversity, Systematics, and Genomics of the Aculiferan Molluscs (talk). Dauphin Island Sea Lab, Dauphin Island, AL. **Invited seminar.**
34. Varney, R.M.\*, Speiser, D.I., and **Kocot, K.M.** 2019. The genome of the chiton *Acanthopleura granulata*: a model system for studying molluscan evolution (poster). Society of Integrative and Comparative Biology annual meeting, Tampa, FL.

35. Pabst, E.\* and **K.M. Kocot**. 2019. Are Ultraconserved Elements an Informative Phylogenetic Marker in Molluscs? (poster). Society of Integrative and Comparative Biology annual meeting, Tampa, FL.
36. Varney, R.M.\*, Speiser, D.I., and **Kocot, K.M.** 2019. The genome of the chiton *Acanthopleura granulata*: a model system for studying molluscan evolution (poster). Global Invertebrate Genomics Alliance III, Curacao.
37. Pabst, E.\* and **K.M. Kocot**. 2019. Are Ultraconserved Elements an Informative Phylogenetic Marker in Molluscs? (poster). Global Invertebrate Genomics Alliance III, Curacao.
38. Thálen, F.\* and **K.M. Kocot**. 2019. PhyloPyPruner: Tree-based Orthology Inference with Methods for Resolving Contamination-like Issues. Global Invertebrate Genomics Alliance III, Curacao.
39. **Kocot, K.M.** 2018. Big Questions About Little Molluscs: Biodiversity, Systematics, & Genomics of Aplacophora (oral). Smithsonian Tropical Research Institute, Bocas del toro, Panama.
40. **Kocot, K.M.** 2018. Big questions about little molluscs (talk). IceAGE Workshop, Sandgerði, Iceland.
41. **Kocot, K.M.** 2018. Big questions about little molluscs (talk). University of Washington Friday Harbor Laboratories, Friday Harbor, WA. **Invited seminar.**
42. Goble, J.\* and **K.M. Kocot**. 2018. The Biodiversity of Deep-Sea Icelandic Aplacophoran Molluscs (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.
43. Hawkins, T.\* and **K.M. Kocot**. 2018. Biodiversity and Population Genetics of *Wirenia argentea* (Mollusca, Solenogastres) (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.
44. Kantzler, E.\* and **K.M. Kocot**. 2018. Biodiversity and mitogenomics of deep-sea Euphrosinidae (Annelida) (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.
45. Pabst, E.\* and **K.M. Kocot**. 2018. Are Ultraconserved Elements an Informative Phylogenetic Marker in Molluscs? (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.
46. Pruett, C.\* and **K.M. Kocot**. 2018. Extracting Genetic Information from Alabama Mollusks (poster). UA Undergraduate Research and Creative Activity conference, Tuscaloosa, AL.
47. **Kocot, K.M.**, M.G. Tassia, K.M. Halanych, and B.J. Swalla, 2018. Phylogenomics offers resolution of major tunicate relationships (poster). Society of Integrative and Comparative Biology annual meeting, San Francisco, CA.
48. Varney, R.M.\*, D. Speiser, and **K.M. Kocot**. 2018. The genome of the chiton *Acanthopleura granulata*: preliminary work toward understanding biomineralization of teeth as tough as tank armor (poster). Society of Integrative and Comparative Biology annual meeting, San Francisco, CA.
49. Vaccaro, K.M., Kocot, K.M., and Janosik, A.M. 2018. Sexual dimorphism in *Coronis scolopendra* (Stomatopoda): do males and females see the world differently? (poster). Society of Integrative and Comparative Biology annual meeting, San Francisco, CA.
50. **Kocot, K.M.** 2017. Advances and unanswered questions on the phylogeny, molecular evolution, and biodiversity of Mollusca. Louisiana State University Department of Biological Sciences. Baton Rouge, LA. **Invited seminar.**
51. **Kocot, K.M.** 2017. Big questions about little invertebrates (talk). LANGEBIO, Iraputo, Guanajuato, Mexico. **Invited seminar.**
52. **Kocot, K.M.**, R.M. Varney, and D. Speiser. 2017. Developing high-quality genomic resources for understudied classes of Mollusca (poster). Global Biodiversity Genomics Conference. Washington, D.C.
53. **Kocot, K.M.** 2017. Deep Animal Phylogeny with Consideration of Systematic Error. Texas A&M University Galveston Department of Biological Sciences, Galveston, TX. **Invited seminar.**
54. **Kocot, K.M.** 2017. Aplacophora. Benthic Invertebrate Taxonomy, Metagenomics, and Bioinformatics (BITMaB) Workshop. Corpus Christi, TX.
55. **Kocot, K.M.** 2017. Phylogenomics of Lophotrochozoa with Consideration of Systematic Error. Society of Integrative and Comparative Biology annual meeting. New Orleans, LA.
56. **Kocot, K.M.** 2016. Monoplacophoran genome sheds light on relationships among shelled molluscs. World Congress of Malacology. Penang, Malaysia.
57. **Kocot, K.M.** 2016. Monoplacophoran genome sheds light on relationships among shelled molluscs. American Malacological Society. Ensenada, Mexico.
58. **Kocot, K.M.** 2016. Advances and unanswered questions on the phylogeny, molecular evolution, and diversity of Mollusca. University of South Carolina Department of Biological Sciences, Columbia, SC. **Invited seminar.**
59. **Kocot, K.M.** 2016. Advances and unanswered questions on the phylogeny, molecular evolution, and diversity of Mollusca. University of West Florida Department of Biological Sciences, Pensacola, FL. **Invited seminar.**
60. **Kocot, K.M.**, T.H. Struck, J. Merkel, D.S. Waits, C. Todt, P.M. Brannock, D.A. Weese, J.T. Cannon, L.L. Moroz, B. Lieb, and K.M. Halanych. 2015. Phylogenomics sheds light on the most diverse clade of marine

- invertebrates (Lophotrochozoa). University of Queensland Centre for Marine Science Talk Fest, St. Lucia, Queensland, Australia. **Invited seminar.**
61. **Kocot, K.M.** 2015. Advances and unanswered questions on the phylogeny, molecular evolution, and diversity of Mollusca. University of Colorado Boulder Department of Biological Sciences, Boulder, CO. **Invited (job interview).**
  62. **Kocot, K.M.** 2015. Advances and unanswered questions on the phylogeny, molecular evolution, and diversity of Mollusca. University of Alabama Department of Biological Sciences, Tuscaloosa, AL. **Invited (job interview).**
  63. **K.M. Kocot.** 2014. Deep metazoan phylogeny and the utility of taxon-specific ortholog sets (talk). Frontiers in Phylogenetics Symposium. Smithsonian Institution. Washington, D.C. **Invited seminar.**
  64. Bond J.E., N.L. Garrison, C.A. Hamilton, R.L. Godwin, M. Hedin, I. Agnarsson, **K.M. Kocot**, J. Ledford, and C. Griswold. 2014. Spider phylogenomics: reevaluating the history of Earth's most diverse predator lineage and the origin of the orb web (talk). European Congress of Arachnology. Torino, Italy.
  65. **Kocot, K.M.**, C. McDougall, J.A. Shaw, C. Todt, K.M. Halanych, and B.M. Degnan. 2014. New insights into molluscan biomineralization through studies of aculiferans (poster). International Congress on Invertebrate Morphology. Berlin, Germany.
  66. Twigg, R.S., **K.M. Kocot**, P.M. Brannock, and K.M. Halanych. 2014. Phylogenetic classification of octopus species from Antarctica (poster). Alabama Academy of Sciences Meeting. Auburn, Alabama.
  67. **Kocot, K.M.** 2013. New insights into molluscan evolution through phylogenomics. Illinois State University. **Invited.**
  68. **Kocot, K.M.**, C. Todt, N.T. Mikkelsen, and K.M. Halanych. 2013. Phylogenomics reveals evolutionary relationships within Aplacophora (Mollusca, Aculifera) (talk) Evolution, Snowbird, UT, USA.
  69. **Kocot, K.M.**, C. Todt, N.T. Mikkelsen, and K.M. Halanych. 2013. Preliminary Molecular Phylogeny of Aplacophora Based on Transcriptome Data (talk) World Congress of Malacology, Ponta Delgada, Portugal. **Invited.**
  70. Swore, J.J., A.B. Kohn, **K.M. Kocot**, B.J. Swalla, T. Norekian, and L.L. Moroz. 2013. On the origins of glutamatergic signaling: Insights from the ctenophore genome (*Pleurobrachia bachei*) (talk) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
  71. Bruders, R., A.B. Kohn, **K.M. Kocot**, B.J. Swalla, T. Norekian, and L.L. Moroz. 2013. Gone with the Wnts: Genomic insights into Wnt signaling in the ctenophore, *Pleurobrachia bachei* (talk) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
  72. Churches, N., A.B. Kohn, **K.M. Kocot**, B.J. Swalla, and L.L. Moroz. 2013. Collagens in the ctenophore *Pleurobrachia bachei*: Remarkable expansion and diversity of genes controlling the extracellular matrix in basal metazoans (poster) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
  73. Dabe, E.C., A.B. Kohn, Y. Bobkova, **K.M. Kocot**, M.R. Citarella, C.J. Bostwick, G.C. Winters, B.J. Swalla, and L.L. Moroz. 2013. Epigenomic Signatures in Basal Metazoans: DNA Methyltransferase in *Pleurobrachia bachei* (poster) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
  74. Winters, G.C., A.B. Kohn, M.R. Citarella, C.J. Bostwick, E.C. Dabe, Y. Bobkova, **K.M. Kocot**, B.J. Swalla, and L.L. Moroz. 2013. Conserved expression patterns of Nanos in the ctenophore *Pleurobrachia bachei*: Implications for germ line specification in basal metazoans (poster) Society of Integrative and Comparative Biology, San Francisco, CA, USA.
  75. **Kocot, K.M.**, M.R. Citarella, L.L. Moroz, and K.M. Halanych. 2013. PhyloTreePruner: a phylogenetic tree-based approach for selection of orthologous sequences for phylogenomics (talk) Hennig XXXI, Riverside, California, USA. **Invited seminar.**
  76. **Kocot, K.M.**, C. Todt, N.T. Mikkelsen, and K.M. Halanych. 2012. Preliminary molecular phylogeny of Solenogastres (Mollusca: Aplacophora) (talk) Bergen Marine Invertebrate Symposium, Bergen, Norway.
  77. **Kocot, K.M.** 2012. New insights into molluscan evolution through phylogenomics (talk) Phylogenetic Systematics and Evolution Research Group Seminar Series. Bergen University, Bergen, Norway.
  78. **Kocot, K.M.** 2012. IceAGE: Icelandic Animals – Genetics and Ecology (talk) AU Marine Biology Club invited seminar.
  79. Moroz, L.L., A.B. Kohn, M.R. Citarella, M. Grigorenko, **K.M. Kocot**, K.M. Halanych, and E. Rogaev. 2012. The genome of the ctenophore *Pleurobrachia bachei*: Molecular insights into independent origins of nervous systems (talk) Society of Integrative and Comparative Biology. Charleston, SC.
  80. Curtis, N.E., X. Fang, X. Jiang, J.A. Schwartz, **K.M. Kocot**, and S.K. Pierce. 2012. Algal, nuclear-encoded gene sequences are present in the transcriptome of the kleptoplastic sea slug, *Elysia chlorotica* – Further evidence for horizontal gene transfer (talk) Society of Integrative and Comparative Biology. Charleston, SC.

81. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S.R. Santos, L.L. Moroz, B. Lieb, and K.M. Halanych. 2011. Phylogenomics reveals deep molluscan relationships (talk) American Malacological Society, Pittsburgh, PA. **Invited talk for keynote symposium.**
  82. **Kocot, K.M.**, C. Todt, C. Schander, A.H. Scheltema, and K.M. Halanych. 2011. New insights into early molluscan evolution from ancestral state reconstruction (poster) International Congress on Invertebrate Morphology. Cambridge, MA.
  83. Todt, C. and **K.M. Kocot**. 2011. Meiofaunal solenogasters and their “giant” relatives (talk) International Congress on Invertebrate Morphology. Cambridge, MA.
  84. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S. R. Santos, L. L. Moroz, B. Lieb, and K. M. Halanych. 2011. Phylogenomic investigation of molluscan evolutionary relationships (talk) Southeastern Ecology and Evolution Conference. Auburn, AL.
  85. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S.R. Santos, L.L. Moroz, B. Lieb, and K.M. Halanych. 2011. Phylogenomic investigation of molluscan evolutionary relationships (poster) Auburn University Graduate Scholars Forum. Auburn, AL.
  86. **Kocot, K.M.**, J.T. Cannon, C. Todt, A.B. Kohn, M.R. Citarella, A. Meyer, C. Schander, S.R. Santos, L.L. Moroz, B. Lieb, and K.M. Halanych. 2011. Phylogenomic investigation of molluscan evolutionary relationships (talk) Society of Integrative and Comparative Biology (SICB). Salt Lake City, UT. **Best student presentation awarded.**
  87. Meyer, A., **K.M. Kocot**, K.M. Halanych, and B. Lieb. 2010. Pros and cons of gene selection in phylogenomic inferences by means of topological information (talk). Systematics in the Age of Genomics. Hamburg, Germany.
  88. **Kocot, K.M.** and K.M. Halanych. 2009. Molluscan phylogeny investigated using three nuclear protein-coding genes (talk). Southeastern Evolution and Ecology Conference (SEEC). Gainesville, FL.
  89. **Kocot, K.M.** and K.M. Halanych. 2009. Molluscan phylogeny investigated using three nuclear protein-coding genes (talk). Society of Integrative and Comparative Biology (SICB). Boston, MA.
  90. **Kocot, K.M.** and S.R. Santos. 2008. Secondary structural modeling of an RNA spacer in *Pfieseria*-like dinoflagellates (talk). AU Cellular and Molecular Biosciences Seminar Series. Auburn, AL.
  91. **Kocot, K.M.** and S.R. Santos. 2008. Secondary structural modeling of an RNA spacer in *Pfieseria*-like dinoflagellates (talk). Southeastern Evolution and Ecology Conference (SEEC). Tallahassee, FL.
- \*Kocot lab student or postdoc

## TEACHING EXPERIENCE

### *Instructor*

Invertebrate Zoology (UA): Fall 2016, Spring 2018, Spring 2019  
 Systematics Lunch Group (SLuG; UA): Fall 2018-Spring 2020  
 Principles of Biology II (UA): Spring 2017, Fall 2017, Fall 2019, Spring 2020  
 Evolutionary Genomics Seminar (UA): Fall 2017  
 Principles of Systematics Seminar (UA): Spring 2017  
 Marine Invertebrate Zoology (FHL): Summer 2016, Summer 2018  
 Phylogenomics workshop (AU): Fall 2012

### *Teaching Assistant*

Invertebrate Biodiversity (AU): Fall 2008, Spring 2009, Spring 2010, Spring 2012  
 Vertebrate Biodiversity (AU): Summer 2009  
 Genetics (AU): Fall 2008, Fall 2009  
 Organismal Biology (AU): Summer 2020  
 Principles of Biology (AU): Fall 2011  
 Evolution and Development of the Metazoans (FHL): Summer 2011  
 Bioinformatics of Biodiversity workshop (AU): Spring 2011  
 Marine Genomics (FHL): Spring 2010  
 Entomology (ISU): Fall 2007  
 Costa Rican Rainforest Ecology (ISU): Fall 2007  
 Biological Diversity (ISU): Spring 2007  
 Invertebrate Zoology: Spring 2005, Spring 2006, Spring 2007



### **Guest Lecturer**

Evolution for Everyone (UA). Topic: Phylogenetics. Each spring since 2019.  
Honors Principles of Biology II (UA). Topic: Invertebrate Biodiversity. Each spring since 2016.  
Biology and Taxonomy of the Nemerteans (STRI). Topic: Meiofauna. Summer 2018  
Comparative Invertebrate Embryology (FHL). Topic: Phylogenetics. Summer 2014  
Marine Genomics Apprenticeship (FHL). Topic: Phylogenetics. Spring 2013  
Invertebrate Biodiversity (AU). Topic: Mollusca. Fall 2013  
Marine Genomics Apprenticeship (FHL). Topic: Phylogenetics: Summer 2012  
Invertebrate Biodiversity (AU) Topic: Mollusca. Spring 2010  
Invertebrate Zoology (ISU) Topic: Annelida. Spring 2007

### **Undergraduate Researcher Mentoring**

2016-present Mentor to 5-9 undergraduate researchers per semester, most of whom conduct research in the lab for >1 year and present results at our internal URCA conference (UA)  
2013 Mentored one undergraduate student in the laboratory (AU)  
2011 Mentored two undergraduate students in the laboratory (AU)

### **FUNDED RESEARCH GRANTS**

2020 NSF Museum Collection Digitization TCN (Co-PI; my share \$33,235)  
2019 Louisiana Department of Wildlife and Fisheries (Co-PI; total budget \$50,572)  
2019 NSF CAREER (PI; total budget \$1,208,255)  
2018 Texas Parks and Wildlife Section 6 Research Grant (Co-PI; total budget \$499,365)  
2018 UA CARSCA Research Grant (\$3,166)  
2016 UA Research Grants Committee Level 1 Research Grant (\$5,970)  
2015 Australian Research Council DECRA (PI; \$400,809; declined)  
2013 NSF Postdoctoral Research Fellowship in Biology (\$139,000)  
2013 NASA Astrobiology: Exobiology and Evolutionary Biology (Co-PI; total budget \$810,829)  
2012 Malacological Society of London Student Research Grant (\$940)  
2012 NSF Doctoral Dissertation Improvement Grant (\$15,000)  
2008 AU Graduate School Student Research Grant (\$1,000)  
2008 American Malacological Society Melbourne R. Carriker Student Research Award (\$400)  
2008 Malacological Society of London Student Research Grant (\$1,578)

### **AWARDS, FELLOWSHIPS, TRAVEL GRANTS, TEACHING GRANTS, HONORARIA, ETC.**

2018 American Microscopical Society Buchsbaum Prize for Excellence in Photomicrography (\$100)  
2016 UA College of Arts and Sciences Teaching Grant (\$2,000)  
2013 AU Graduate School Distinguished Dissertation Award (\$500)  
2012 Willi Hennig Society Marie Stopes Student Travel Award (\$500)  
2012 AU Harry Merriwether Fellowship (\$2,000)  
2012 AU College of Science and Mathematics Dean's Research Award (\$250)  
2011 American Malacological Society Keynote Symposium Honorarium (\$500)  
2011 AU Graduate Scholars Forum Finalist  
2011 AU DBS Kenneth Ottis Distinguished Graduate Fellowship  
2011 SICB DSEB Best Platform Presentation (\$150)  
2007 FHL Invertebrate Ball "Best Microscopic Invertebrate" costume award  
2007-2008 AU Cellular and Molecular Biosciences Fellowship  
2007 ISU Rilett Scholarship Award  
2006 ISU Dept. of Biological Sciences Future Alumni Leader  
2005 ISU Dept. of Biological Sciences Jack A. Ward Service Award

### **RESEARCH CRUISES**

2020 Icy Inverts. *RVIB Nathaniel B. Palmer*. 84 days. Weddell Sea and Antarctic Peninsula.  
2016 UNOLS Chief Scientist Training Cruise. *RV Atlantis*. 7 days. Atlantic Ocean. Included a dive in HOV *Alvin*.  
2015-2016 FROSN. *RV Polarstern*. 75 days. South Africa, Weddell Sea, Antarctic Peninsula, and Chile.  
2013 Icy Inverts. *RV Lawrence M. Gould*. 30 days. Antarctic Peninsula and Weddell Sea.

2013 Bone and Wood Landers (BoWLs). *R/V Oceanus*. 14 days. Pacific Northwest.  
 2012-2013 Icy Inverts. *R/VIB Nathaniel B. Palmer*. 42 days. Bellinghausen/Amundsen/Ross Seas, Antarctica.  
 2011 IceAGE. *R/V Meteor*. 32 days. Icelandic and Greenlandic waters.  
 2011 WormNet II. *R/V Cape Hatteras*. 7 days. Western Atlantic.  
 2009 BIOSKAG II. *R/V Hakon Mosby*. 14 days. Skagerrak Strait.  
 2009 Siboglinidae Symbiosis Cruise. *R/V Seward Johnson*. 5 days. Gulf of Mexico.

### RESEARCH EXCHANGES

2012 Visiting Scientist. Bergen University, Bergen, Norway. PI: Dr. Christiane Todt.  
 2009 Visiting Scientist. Whitney Lab, St. Augustine, FL. PI: Dr. Leonid Moroz.  
 2008 Visiting Scientist. Bergen University, Bergen, Norway. PI: Dr. Christoffer Schander.

### WORK EXPERIENCE

2004-2007 Zebrafish husbandry laboratory technician (part-time)  
 2003-2007 ISU Dept. of Biological Science marine aquarium technician (volunteer)  
 2004 Illinois Department of Natural Resources whitetail deer chronic wasting disease checker coordinator

### ADVANCED COURSEWORK, WORKSHOPS, AND OTHER TRAINING

2018 Smithsonian Tropical Research Institute Taxonomy and Biology of Nemertean Workshop  
 2017 Marshall Kaplan NSF CAREER Grant Proposal Workshop  
 2017 Benthic Invertebrate Taxonomy, Metagenomics, and Bioinformatics (BITMaB)  
 2016 University of Alabama Active Learning Workshop  
 2015 MixOmics statistical genomics workshop  
 2010 Smithsonian Tropical Research Institute Meiofauna Diversity and Taxonomy Workshop  
 2010 Blast2GO Workshop  
 2009 Bodega Marine Lab Applied Phylogenetics Workshop  
 2008 Friday Harbor Labs Evolution and Development of the Metazoans  
 2007 Friday Harbor Labs Marine Invertebrate Zoology

### SELECT SERVICE ACTIVITIES

#### *Ongoing*

2019-present Faculty adviser for UA Delta Lambda Pi fraternity  
 2019-present Member of Executive Council of Unitas Malacologica  
 2019-present Alabama Museum of Natural History Council of Curators Appointment Committee member  
 2018-present President of Capstone Alliance (UA LGBTQA+ faculty & staff advocacy organization)  
 2018-present UA Department of Biological Sciences Graduate Admissions and Recruiting Committee member  
 2018-present UA Department of Biological Sciences Communications Committee member  
 2018-present Member at Large on Executive Committee of American Microscopical Society  
 2017-present UA Department of Biological Sciences Webmaster  
 2017-present Treasurer of Capstone Alliance (UA LGBTQA+ faculty & staff advocacy organization)  
 2016-present Associate Editor for *Marine Biodiversity*  
 2016-present Judging of presentations at Society of Integrative and Comparative Biology annual meeting  
 2016-present Steering committee member for UA Evolutionary Working Group (EvoWoG; UA group organizing the Alabama Lectures on Life's Evolution seminar series)

#### *Complete*

2020 Guest lecture to Dr. Kathleen Morrow's Biology class at Thomas Jefferson High School for Science and Technology, Falls Church, VA  
 2019 Alabama Museum of Natural History Sheldon Endowed Scholarship Award Committee  
 2018 Co-organizer of the third Global Invertebrate Genomics Alliance (GIGA) meeting in Curaçao  
 2018 NASA Exobiology grant review panelist in San Diego, CA  
 2018 Organized "From small and squishy to big and armored: Genomic, ecological and paleontological insights into the early evolution of animals" symposium at the SICB meeting in San Francisco, CA in 2018  
 2017, 2018 Guest lectures to the Birmingham Paleontological Society, Birmingham, AL

- 2016 Organized “Phylogenomics of Mollusca” symposium at the American Malacological Society meeting in Ensenada, Mexico in 2016.
- 2013 Guest editor for IceAGE special issue of *Polish Polar Research*
- 2013 Chaired “Who are the Aculifera?” symposium at the World Congress of Malacology
- 2011 Helped organize the Southeastern Ecology and Evolution Conference at AU

I have served on multiple search committees at UA, which successfully hired Dr. Michael McKain (Plant Systematics), Dr. Tyler Hodges (NTRC), Dr. Andy Chaudhuri (NTRC), Dr. Kaleb Heinrich (NTRC), and Dr. Kenneth Hoadley (Marine Biology).

I review at least 15 manuscripts and/or grant proposals per year. To date, I have served as a reviewer for: *American Malacological Bulletin*, *BMC Biology*, *BMC Evolutionary Biology*, *Biology Methods and Protocols*, *Biological Bulletin*, *Deep Sea Research*, *Biota Neotropica*, *F1000 Research*, *Frontiers in Zoology*, *Genome*, *Genome Biology and Evolution*, The German Science Foundation, *GigaScience*, *Invertebrate Systematics*, *The Journal of Natural History*, The Leverhulme Trust, *Malacologia*, *Marine Biodiversity*, *Marine Biology*, *Marine Biology Research*, *Marine Genomics*, *Molecular Biology and Evolution*, *Molecular Phylogenetics and Evolution*, NASA, National Fish and Wildlife Foundation, National Science Foundation, *Organisms Diversity and Evolution*, *PloS One*, and *Polish Polar Research*, Polish Science Foundation, *Scientific Reports*, Society of Systematic Biologists, *Systematic Biology*, The University of West Florida, and *ZooKeys*.

### **OUTREACH**

- 2019-2020 Volunteered at UA Department of Biological Sciences Ar-BOO-return event
- 2018-2020 Hosted two high school students in my lab each year to learn what a day in the life of a scientist is through the “Scientist for a Day” program
- 2017 Helped organize UA BSC “Bama Biology Bootcamp” (B<sup>3</sup>; UA BSC intensive college preparation program) and made the B<sup>3</sup> website
- 2017-present Volunteered at UA Department of Biological Sciences Homecoming tent outreach event
- 2017 Volunteered at Science Olympiad
- 2016 Presented at a local grade school on marine biology and research in Antarctica
- 2014-2015 Speed Dating with a Scientist (outreach event to help high school students interested in science and mathematics choose a University plan of study)
- 2009-2013 Presented at AU Explore (outreach event intended to interest area grade-school students in pursuing higher education)

### **MEMBERSHIPS**

American Malacological Society  
 American Microscopical Society  
 Global Invertebrate Genomics Alliance  
 Society for Integrative and Comparative Biology  
 Unitas Malacologica