

Biographical Sketch – Matthew P. Galaska, Ph.D.

Co-Principal Investigator (2019 – present)

Genetics and Genomics Group

University of Washington Joint Institute for the Study of the Atmosphere and Ocean (JISAO) &

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Professional Preparation

Albion College, Biology and Neuroscience, B.S. 2010

Auburn University, Biology, Ph.D. 2017

Appointments

Research Scientist, University of Washington JISAO & NOAA PMEL	2019 – present
Postdoctoral Research Associate, Lehigh University	2017 – 2019
Graduate Teaching Assistant, Auburn University	2011 – 2017
Lead Molecular Technician, University of Notre Dame	2010 – 2011

Products: 5 Most Relevant Papers (of 9 published peer-reviewed journal articles, H-index = 5)

- 1) **Galaska MP**, Y Li, KM Kocot, AR Mahon, KM Halanych. **2019**. Conservation of mitochondrial genome arrangements in brittle stars (Echinodermata, Ophiuroidea). *Molecular Phylogenetics and Evolution* 130:115–120. doi:10.1016/J.YMPEV.2018.10.002
- 2) **Galaska MP***, NM Hammerman*, RE Rivera-Vicens*, E Weil, RS Appeldoorn, M Alfaro, NV Schizas. **2018**. Population connectivity of the plating coral, *Agaricia lamarcki* from southwest Puerto Rico. *Coral Reefs* 37:183–191. doi:10.1007/s00338-017-1646-x. *Authors contributed equally
- 3) **Galaska MP**, CJ Sands, SR Santos, AR Mahon, KM Halanych. **2017**. Crossing the divide: Admixture across the Antarctic Polar Front revealed by the brittle star *Astrotoma agassizii*. *Biol. Bull.* 232:198–211. doi: 10.1086/693460
- 4) **Galaska MP**, CJ Sands, SR Santos, AR Mahon, KM Halanych. **2017**. Geographic structure in the Southern Ocean circumpolar brittle star *Ophionotus victoriae* (Ophiuridae) revealed from mtDNA and single nucleotide polymorphism data. *Ecology and Evolution* 7:475–485. doi:10.1002/ece3.2617
- 5) Mahon AR, CL Jerde, **M Galaska**, JL Bergner, WL Chadderton, DM Lodge, LG Nico. **2013**. Validation of eDNA Surveillance Sensitivity for Detection of Asian Carps in Controlled and Field Experiments. *PLoS ONE* 8:1–6. doi:10.1371/journal.pone.0058316

Five Other Related Papers or Products

- 6) Bracco A, G Liu, **MP Galaska**, AM Quattrini, S Herrera. **2019**. Integrating physical circulation models and genetic approaches to investigate population connectivity in deep-sea corals. *Journal of Marine Systems* 198:1–17. doi:10.1016/j.jmarsys.2019.103189
- 7) Whelan NV, **MP Galaska**, BN Siple, J Weber, PD Johnson, KM Halanych, BH Helms. **2019**. Riverscape genetic variation, migration patterns, and morphological variation of the threatened Round Rocksnail, *Leptoxis ampla*. *Molecular Ecology* 28:1593–1610. doi: 10.1111/mec.15032

- 8) Collins EE, **MP Galaska**, KM Halanych, AR Mahon. **2018**. Population genomics of *Nymphon austral* Hodgson 1902 (Pycnogonida, Nymphonidae) in the Western Antarctic. *Biol. Bull.* 234:180–191. doi:10.1086/698691
- 9) Resh CA, **MP Galaska**, AR Mahon. **2018**. Genomic analyses of Northern Snakehead (*Channa argus*) populations in North America. *PeerJ* 6:e4581. doi:10.7717/peerj.4581
- 10) **Galaska, MP**. 2017. Developed curriculum for *Introduction to Bioinformatics Programming* seminar series. Lehigh University.

Synergistic Activities, Grants, and Awards

- Invited reviewer - Marine Biodiversity, Methods in Ecology and Evolution, Marine Biodiversity, Molecular Ecology, PLOS One, BMC Evolutionary Biology, Polish Polar Research, Organisms Diversity and Evolution
- Formally mentored five undergraduate students, Destiny West (Lehigh Univ.), Alondra Maldonado (Lehigh Univ.), Maria Granquist (Lehigh Univ.), Eric Brush (Auburn Univ.), Carey Hickerson (Auburn Univ.), and two PhD students, Andrew Conboy (Lehigh Univ.), Erin Collins (Central Michigan Univ.).
- Graduate representative on faculty search committee for a theoretical phylogeneticist. Auburn University, Auburn AL, 2015.
- Community outreach through invited talks and formal outreach events. AU Explore (2012-2017), Beauregard Middle School (2013), Olgetree Elementary School (2013), Drake Middle School (2014, 2015, 2016), Research based cruise blogs aboard the RV/IB Nathaniel B. Palmer (2013), RV Oceanous (2013), RV Laurence M. Gould (2013), Oceaneering - Ocean Project (2017), RV Pelican (2019)

Collaborators

Santiago Herrera, Lehigh Univ. (Postdoctoral advisor), Kenneth M. Halanych, Auburn Univ. (PhD advisor), Andrew R. Mahon, Central Michigan Univ., Nathan Whelan, USFWS., Yuanning Li, Yale Univ., Kevin M. Kocot, Univ. of Alabama, Scott R. Santos, Auburn Univ., Peter Etnoyer, NOAA CCEHBR, Chester J. Sands, British Antarctic Survey, Nikolaos Schizas, Univ. of Puerto Rico Mayaguez, Carlee A. Resh, Central Michigan Univ., Christopher Jerde, Univ. of California Santa Barbara, Nicholas Hammerman, Univ. of Queensland, Brian Helms, Troy Univ., William L. Chadderton, The Nature Conservancy.

Graduate committee advisor

Erin E. Collins, Central Michigan University, Biology Department, faculty advisor – Andrew R. Mahon. (2017 – 2019)

Carlee A. Resh, Central Michigan University, Biology Department faculty advisor – Andrew R. Mahon (2017 – present)