

JONATHAN B. PURITZ JR.

Department of Biological Sciences
University of Rhode Island
120 Flagg Road, Kingston, RI 02881
Email: jpuritz@uri.edu
Website: MarineEvoEco.com

EDUCATION

- 2011 **Ph.D. in Zoology, University of Hawaii at Manoa**
Committee: Rob Toonen, Brian Bowen, Steve Karl, Megan Donahue, Shannon Bennett
- 2005 **B.S. in Biology with Honors, Brown University**
Advisors: Jon Witman and David Rand

PROFESSIONAL APPOINTMENTS

- 2017- **Assistant Professor**
Department of Biological Sciences, University of Rhode Island
- 2016-17 **Postdoctoral Research Associate**
Marine Science Center, Northeastern University
- 2014-16 **Postdoctoral Research Associate, Adjunct Graduate Faculty**
Harte Research Institute, Texas A&M Corpus Christi
- 2012-14 **Postdoctoral Research Associate**
Department of Wildlife and Fisheries Science, Texas A&M University
- 2012 **Postdoctoral Scholar, Lecturer**
Hawaii Institute of Marine Biology, University of Hawaii at Manoa

PUBLICATIONS

Statistics (Google Scholar Accessed 12/1/2021)

1858 Citations

29 Peer reviewed journal articles and book chapters

19 h-index

Pre-prints, accepted manuscripts, and manuscripts under review

- 2021 Schiebelhut, L., Giakoumis, M., Castilho, R., Duffin, P.J., Puritz, J.B., Wares, J.P., Wessel, G.M., Dawson, M.N. No short-term change in genetic estimates of effective population size despite massive widespread mortality in *Pisaster ochraceus*. ***Under Review at the Biological Bulletin***.
- 2021 Portnoy, D.S., Fields, A.T., Puritz, J.B., Hollenbeck, C.M., Patterson, W.F. Genomic Analysis of Red Snapper, *Lutjanus campechanus*, Population Structure in the U.S. Atlantic and Gulf of Mexico. ***Accepted at ICES Journal of Marine Science***.
- 2021 Hart, M. W. Guerra, V., Byrne, M., **Puritz, J.B.** Genomic data improve coalescent inference across a range of demographic parameters and life-histories. ***Under Review at Evolutionary Applications***. Preprint DOI: 10.22541/au.159990335.58331776

Published

- 2021 Trigg, S.A., Venkataraman, Y.R., Gavary, M., Roberts, S.B., Bhattacharya, D., Downey-Wall, A., Eirin Lopez, J.M., Johnson, K.M., Lotterhos, K.E., **Puritz, J.B.**, Putnam, H.M. Invertebrate methylomes provide insight into mechanisms of environmental tolerance and reveal methodological biases. ***Molecular Ecology Resources***. DOI: 10.1111/1755-0998.13542

- 2021 Modak, T. H., Literman, R., Puritz, J.B., Johnson, K. J., Roberts, E. M., Proestou, D., Guo, X., Gomez-Chiarri, M., Schwartz, R. S. Extensive genome-wide copy number variation in the eastern oyster (*Crassostrea virginica*). **Phil. Trans. R. Soc. B**. DOI: 10.1098/rstb.2020.0164
- 2021 Catalano, K. A., Dedrick, A. G., Stuart, M. R., Puritz, J. B., Montes Jr., H. R., Pinsky, M. L. Quantifying dispersal variability among nearshore marine populations. **Molecular Ecology**. DOI: 10.1111/mec.15732
- 2020 Hart, M.W. and **Puritz, J.B.** Correction to 'Extraordinarily rapid life-history divergence between *Cryptasterina* sea star species'. **Proceedings of the Royal Society B**, 287(1930), p.20201325. DOI: 10.1098/rspb.2020.1325
- 2018 O'Leary, S.J., **Puritz, J. B.**, Willis, S.C., Hollenbeck, C.M. and Portnoy, D.S., 2018. These aren't the loci you're looking for: Principles of effective SNP filtering for molecular ecologists. **Molecular ecology**. DOI: 10.1111/mec.14792
A top downloaded paper of 2019
- 2018 Schiebelhut, L.M., **Puritz, J. B.**, and Dawson, M.N. Decimation by sea star wasting disease and rapid genetic change in a keystone species, *Pisaster ochraceus*. **Proceedings of the National Academy of Sciences**. DOI: 10.1073/pnas.1800285115
- 2018 **Puritz, J. B.**, and Lotterhos, K. E. Expressed Exome Capture Sequencing (EecSeq): a method for cost-effective exome sequencing for all organisms with or without genomic resources. **Molecular Ecology Resources**. DOI: 10.1111/1755-0998.12905
- 2017 **Puritz, J. B.**, Keever, C. C., Addison, J. A., Barbosa, S. S., Byrne, M., Hart, M. W., Grosberg, R. K., Toonen, R. J. Life history predicts past and present population connectivity in two sympatric sea stars. **Ecology and Evolution**. DOI: 10.1002/ece3.2938
- 2017 Willis, S. C., Hollenbeck, C. M., **Puritz, J.B.**, Gold, J. R., Portnoy, D. S. Haplotyping RAD loci as an efficient method to characterize and filter paralogs and manage linkage disequilibrium. **Molecular Ecology Resources**. DOI: 10.1111/1755-0998.12647
- 2016 **Puritz, J. B.**, Portnoy, D. S., Gold, J. R. Fine-scale partitioning of genomic variation among recruits in an exploited fishery: causes and consequences. **Scientific Reports**. DOI: 10.1038/srep36095
- 2016 Selkoe, K.A., D'Aloia, C. C., Crandall, E. D., Iacchei, M. I., Liggins, L., **Puritz, J. B.**, von der Heyden, S., Toonen, R. J. A decade of seascape genetics: contributions to basic and applied marine connectivity. **Marine Ecology Progress Series**. DOI:10.3354/meps11792
Feature Article
- 2015 Portnoy, D. S., **Puritz, J. B.**, Hollenbeck, C. M., Gelsleichter, J., Chapman, D., Gold, J. R. Selection and sex-biased dispersal in a coastal shark: the influence of philopatry on adaptive variation. **Molecular Ecology**. DOI: 10.1111/mec.13441
- 2015 Gold, J. R., Willis, S. C., Renshaw, M. A., Buentello, A., Walker, Jr., H. J., **Puritz, J. B.**, Hollenbeck, C. M., Voelker G. Phylogenetic relationships of tropical eastern Pacific snappers (Lutjanidae) inferred from mtDNA sequences. **Systematics and Biodiversity**. DOI:10.1080/14772000.2015.1078857
- 2014 **Puritz, J.B.**, Matz, M. V., Toonen, R. J., Weber, J. N., Bolnick, D. I., Bird, C. E. Comment: Demystifying the RAD fad. **Molecular Ecology**. DOI: 10.1111/mec.12965

2nd Most Accessed Paper for 2014-2015

- 2014 **Puritz, J. B.**, Hollenbeck, C. M., Gold, J. R. *dDocent*: a RADseq, variant-calling pipeline designed for population genomics of non-model organisms. **PeerJ**. DOI: 10.7717/peerj.431
- 2014 **Puritz, J. B.**, Renshaw, M. A., Abrego, D., Vega, R. R., Gold, J. R. Reproductive variance of brood dams and sires used in restoration enhancement of spotted seatrout (*Cynoscion nebulosus*) in Texas bays and estuaries. **North American Journal of Aquaculture** DOI: 10.1080/15222055.2014.920751
- 2013 Toonen, R. J., **Puritz, J. B.**, Forsman, Z.H., Whitney, J. L., Fernandez-Silva, I., Andrews, K. A., Bird, C. E. ezRAD: a simplified method for genomic genotyping in non-model Organisms. **PeerJ**. DOI:10.7717/peerj.203
- 2013 Keever, C., **Puritz, J. B.**, Addison, J. A., Byrne, M., Grosberg, R. K., Toonen R. J., Hart, M.W. Shallow gene pools in the high intertidal: Extreme loss of genetic diversity in viviparous sea stars (Parvulastra). **Biology Letters**. DOI:10.1098/rsbl.2013.0551
- 2013 Andrews, K. R., Perrin, W. F., Oremus, M. Karczmarski, L., Bowen, B. W., **Puritz, J. B.**, Toonen, R. J. The evolving male: spinner dolphin (*Stenella longirostris*) ecotypes are divergent at Y chromosome but not mtDNA or autosomal markers. **Molecular Ecology**. DOI: 10.1111/mec.12193
- 2013 Barbosa, S., Klaten, S., **Puritz, J. B.**, Toonen, R. J., Byrne, M. Very fine scale population genetic structure of sympatric asterinid sea stars with benthic and pelagic larvae: influence of mating system and dispersal potential. **Biological Journal of the Linnean Society**. DOI: 10.1111/bij.12006
- 2013 **Puritz, J. B.** and Toonen, R. J. Next-generation sequencing for high-throughput molecular ecology: a step-by-step protocol for targeted multilocus genotyping by pyrosequencing. Chapter in **Methods in Molecular Biology: Microsatellites**. Volume Editor: Kantartzi, S. K. Pages 89-99
- 2012 **Puritz, J. B.**, Keever, C. C., Addison, J. A., Byrne, M. Hart, M. W, Grosberg, R. K., Toonen, R. J. Extraordinarily rapid life history divergence between *Cryptasterina* sea star species. **Proc. R. Soc. B**. DOI: 10.1098/rspb.2012.1343
- 2012 **Puritz, J. B.**, Addison, J. A., Toonen, R. J. Next-Generation Phylogeography: the application of targeted next-generation sequencing of non-model organisms. **PLoS One** DOI: 10.1371/journal.pone.0034241
- 2011 **Puritz, J. B.** and Toonen, R. J. Coastal Pollution Limits Pelagic Larval Dispersal. **Nature Communications**. DOI: 10.1038/ncomms1238
- 2011 Toonen, R. J., Andrews, K. R., Baums, I. B., Bird, C. E., Concepcion, G. T., Daly-Engel, T. S., J. Eble, A. Faucci, M. Gaither, M. Iacchei, **J. Puritz**, J. Schultz, D. Skillings, M. Timmers & B. Bowen. Defining boundaries for ecosystem-based management: A multispecies case study of marine connectivity across the Hawaiian Archipelago. **Journal of Marine Biology** DOI: 10.1155/2011/460173
- 2009 Keever, C. C., Sunday, J., **Puritz, J. B.**, Addison, J. A., Toonen, R. J., Grosberg, R. K., Hart, M. W. Discordant distributions of populations and genetic variation in a sea star with high dispersal potential. **Evolution**. DOI: 10.1111/j.1558-5646.2009.00801.x

- 2008 Haney, R. A., Dionne, M., **Puritz, J. B.**, Rand, D. M. The comparative phylogeography of east coast estuarine fishes in formerly glaciated sites: Persistence versus Recolonization in *Cyprinodon variegatus ovinus* and *Fundulus heteroclitus macrolepidotus*. ***Journal of Heredity*** DOI: 10.1093/jhered/esn107
- 2005 Walker, A. N., Bush, P., **Puritz, J. B.**, Wilson, T., Chang, E. S., Miller, T., Holloway, K., Horst, M. N. Bioaccumulation and metabolic effects of the endocrine disruptor methoprene in the lobster, *Homarus americanus*. ***Integrative and Comparative Biology***. DOI: 10.1093/icb/45.1.118

GRANTS AWARDED

Total funding = \$2,290,153

- | | | |
|------|---|------------------|
| 2021 | USDA- Agriculture Research Service
Population genomic evaluation of wild and cultured Eastern oyster populations from the Northeast region
(PI Puritz; Total to Puritz: 250,000; additional \$50,000 in match
Project Total: \$300,000) | \$250,000 |
| 2021 | National Science Foundation
<i>How do multiple coastal stressors structure the genomic diversity of marine populations?</i>
(PI Puritz; Total to Puritz: \$680,898; Project Total: \$680,898) | \$680,898 |
| 2020 | National Science Foundation
<i>EAGER: Development of a tool to rapidly and cost-effectively sequence the exome of any organism</i>
(PI Puritz; Total to Puritz: \$298,978; Project Total: \$298,978) | \$298,978 |
| 2019 | Rhode Island Sea Grant
<i>How do multiple coastal stressors limit oyster recruitment?</i>
(PI Puritz; Total to Puritz: \$249,192; additional \$124,617 in match
Project Total: \$373,809) | \$249,192 |
| 2019 | US Fish and Wildlife Service
<i>Assessing Horseshoe Crab Population Structure within Southern New England</i> (PIs: McManus, Ameral, and Puritz; Total to Puritz \$80,435; additional match: \$43,302 (URI) & \$13,992 DEM; Project Total: \$163,715) | \$80,435 |
| 2019 | Atlantic Coast Marine Fisheries Council
<i>From Sequence to Consequence: Genomic Selection to Expand And improve Selective Breeding for The Eastern Oyster</i> (Eastern Oyster Breeding Consortium; URI PIs: Puritz and Gomez-Chiarri; Total to URI: \$690,000; Project Total: \$4,363,092) | \$690,000 |
| 2016 | Harte Research Institute Staff Innovations Grant (Declined)
Collaborative proposal to investigate evolutionary impacts of barotrauma in red snapper | \$5,000 |
| 2015 | Texas Research Development Fund Program
<i>Impacts of sewage effluent on genomic diversity and connectivity of marine intertidal communities</i> | \$20,000 |

2011	NSF East Asian Pacific Science Institute Fellowship Fellowship for two months of research at the University of Sydney	\$8,000
2011	University of Hawaii Graduate Student Organization Travel Grant for 2011 Annual Meeting of the Western Society of Naturalists	\$750
2010	University of Hawaii Graduate Student Organization Travel Grant for 2010 Benthic Ecology Meeting	\$900
2009	University of Hawaii Graduate Student Organization Research grant for sample collection trip to California	\$750
2008	The Charles H. and Margaret B. Edmondson Research Fund Research on the population connectivity of <i>Linckia multifora</i>	\$1,500
2007	Ecology, Evolution, and Conservation Biology Travel Grant Travel Grant for 2007 Annual Meeting of the Western Society of Naturalists	\$750
2007	University of Hawaii Arts and Sciences Advisory Council Award Research expedition to the Chagos Archipelago	\$3,000

TEACHING EXPERIENCE

Classes

2021	Instructor, University of Rhode Island BIO 354: Invertebrate Zoology
2021	Instructor, University of Rhode Island BIO 425G: The origins and fate of marine biodiversity: a larval perspective
2020	Instructor, University of Rhode Island BIO 354: Invertebrate Zoology
2019	Instructor, University of Rhode Island BIO 425G: The origins and fate of marine biodiversity: a larval perspective
2019	Instructor, University of Rhode Island BIO 130: Invertebrate Zoology
2019	Instructor, University of Rhode Island BIO 354: Invertebrate Zoology
2019	Instructor, University of Rhode Island BIO 594: Using genomic techniques to examine the evolution of populations
2018	Instructor, University of Rhode Island BIO 354: Invertebrate Zoology <ul style="list-style-type: none"> Includes rebuilding curriculum for both lecture and lab
2018	Instructor, University of Rhode Island BIO 594: Using genomic techniques to examine the evolution of populations <ul style="list-style-type: none"> New Graduate Class offered for the first time
2017	Co-Instructor, University of Rhode Island BIO 354: Invertebrate Zoology

2017 **Guest Lecturer, University of Rhode Island**

BIO 360: Marine Biology (1 class, Fall semester)

2012 **Lecturer, University of Hawaii at Manoa**

Instructor of record for Biology 404: Advanced Topics in Marine Biology

- Capstone class for seniors majoring in Marine Biology

Workshops

2015-18 **Invited Faculty, Winter School, ETH Zürich, Switzerland**

Bioinformatics for Adaptation Genomics: Adaptation genomics in the realm of Next-Generation Sequencing data analysis

- Funded by Adaptation to a Changing Environment initiative, ETH Zürich, Switzerland
- Responsible for whole day workshop on "Extracting SNP data from NGS sequencing"

2015 **Invited Faculty, Nha Trang University, Vietnam**

Training workshop for Next Generation Sequencing

- Funded by the project "Building a Mekong River genetic biodiversity research network" in the PEER program funded by USAID in the process of project implementation, NTU partnered with Old Dominion, and Texas A & M University Corpus Christi.
- Responsible for multiple day workshop on RADseq Bioinformatics

2014 **Invited Faculty, De LaSalle University, Manila, Philippines**

Pacific Advanced Science Institute (PacASI) sponsored workshop: "Introduction to Genome Data Analysis: Assembly, Annotation, and Application."

- PacASI is a partnership between the Center for Natural Science and Ecological Research at De La Salle University and the National Science Foundation Partnerships for Enhanced Engagement in Research.
- Responsible for several lectures and hands on workshops designed for international students' first engagement with genome scale data.

2013 **Invited Faculty, Hawaii Institute of Marine Biology**

29th Annual Edwin W. Pauley Summer Program: "Advancing tools for biodiversity studies: Genomics and bioinformatics of cnidarians with a focus on corals"

- Responsible for developing and overseeing student research projects and for a workshop on RAD Sequencing

INVITED PRESENTATIONS

2018 **Coastal pollution, next-generation sequencing, and the evolution of marine populations**

Department of Marine Sciences- University of Connecticut Avery Point

2018 **Coastal pollution, next-generation sequencing, and the evolution of marine populations**

Graduate School of Oceanography- University of Rhode Island

2018 **Coastal pollution, next-generation sequencing, and the evolution of marine populations**

Ecology and Evolutionary Biology Department- Brown University

2017 **Expressed Exome Capture Sequencing: a method for cost-effective exome sequencing for all organisms**

Cellular and Molecular Biology Department- University of Rhode Island

- 2017 **Coastal pollution, next-generation sequencing, and the evolution of marine populations**
Biology Department- Woods Hole Oceanographic Institution
- 2016 **Harnessing the power of next-generation sequencing to examine the evolution of marine populations**
Department of Biological Sciences- University of Rhode Island
- 2015 **Using next-generation sequencing to examine patterns of coastal genomic diversity**
Department of Biology Seminar- University of Louisiana at Lafayette
- 2015 **Using next-generation sequencing to examine patterns of coastal genomic diversity**
Marine Science Center Seminar- Northeastern University
- 2015 **The Seascapes Genetics of Coastal Pollution**
Waterscape Genetics- New Perspectives on Connectivity in Fluid Environments Symposium at the International Association of Landscape Ecology World Congress
- 2013 **Impacts of Coastal Pollution and Life-History on Marine Population Connectivity**
Biological Sciences Seminar- Old Dominion University
- 2012 **The Impacts of Coastal Pollution on Marine Population Connectivity**
Harte Research Institute Seminar Series- Texas A&M Corpus Christi
- 2012 **The Impacts of Coastal Pollution on Marine Population Connectivity**
Wildlife and Fisheries Sciences Brown Bag Seminar- Texas A&M University
- 2009 **“The Frontiers of Conservation Genetics: From Genes to Genomes”** Hanauma Bay Education Program Lecture Series- Hanauma Bay Nature Preserve

CONFERENCE PRESENTATIONS (LAST 5 YEARS)

^undergraduate mentee, # post-baccalaureate mentee, * graduate student mentee

- 2021 **Unlocking the Exome: exploring de novo assembly for capture sequencing**
Green*, J. M., and Puritz J. B. National Shellfishery Association Meeting.
- 2021 **From Sequence to Consequence: genomic selection to expand and improve selective breeding for the eastern oyster**
Guo, X., Allen Jr., S., Proestou, D., Allam, B., Gomez-Chiarri, M., Hare, M., Liu, M., Lotterhos, K.E., Kube, P., Plough, L., Puritz, J.B., et al. National Shellfishery Association Meeting. Virtual.
- 2021 **Investigating the effects of coastal stressors on the genomic variation of oyster populations in Narragansett Bay**
Zyck*, A., Stevick, R., Gallagher^#, A., Padro^, N., Gomez-Chiarri, M., Puritz J. B. National Shellfishery Association Meeting. Virtual.
- 2021 **An assembled genome reference for the eastern oyster: a resource for discovery and innovation**
Puritz, J.B., Zhao, H., Weedop, B., Modak, T., Roberts, E., Allen Jr., S., Hare, M., Lotterhos, K.E., Rawson, P., Schwartz, R., Proestou, D., Guo, X., Warren, W., Gomez-Chiarri, M. National Shellfishery Association Meeting. Virtual.

- 2021 **Assessing the evolutionary response of eastern oyster larvae to exposure to coastal acidification and sewage effluent: a CASE study**
Puritz, J. B., Harvey, J. A., and Lotterhos K. E. National Shellfishery Association Meeting.
- 2020 **Assessing the evolutionary response of eastern oyster larvae to exposure to coastal acidification and sewage effluent: a CASE study**
Puritz, J. B., Harvey, J. A., and Lotterhos K. E. Western Society of Naturalists. Virtual.
- 2021 **Unlocking the Exome: exploring de novo assembly for capture sequencing**
Green*, J. M., and Puritz J. B. Western Society of Naturalists. Virtual.
- 2020 **Investigating the effects of coastal stressors on the genomic variation of oyster populations in Narragansett Bay**
Zyck*, A., Stevick, R., Gallagher^#, A., Padro^, N., Gomez-Chiarri, M., Puritz J. B. Western Society of Naturalists. Virtual.
- 2020 **Unlocking the Exome: exploring de novo assembly for capture sequencing**
Green*, J. M., and Puritz J. B. National Shellfishery Association Meeting. Baltimore, MD.
Cancelled due to Covid-19
- 2020 **Assessing the evolutionary response of eastern oyster larvae to exposure to coastal acidification and sewage effluent: a CASE study**
Puritz, J. B., Harvey, J. A., and Lotterhos K. E. National Shellfishery Association Meeting. Baltimore, MD.
Cancelled due to Covid-19
- 2019 **Assessing the evolutionary response of eastern oyster larvae to exposure to coastal acidification and sewage effluent: a CASE study**
Puritz, J. B., Harvey, J. A., and Lotterhos K. E. Evolution. Providence, RI.
- 2019 **Assessing the evolutionary response of eastern oyster larvae to exposure to coastal acidification and sewage effluent: a CASE study**
Puritz, J. B., and Lotterhos K. E. Aquaculture 2019. New Orleans, LA.
- 2018 **Expressed Exome Capture Sequencing: a method for cost-effective exome sequencing for all organisms**
Puritz, J. B., and Lotterhos K. E. Global Invertebrate Genome Alliance. Curacao.
- 2018 **Expressed Exome Capture Sequencing (EecSeq): a method for cost-effective exome sequencing of non-model organisms**
Puritz, J. B., and Lotterhos K.E. National Shellfishery Association Meeting. Seattle, WA.
- 2017 **Expressed Exome Capture Sequencing: a method for cost-effective exome sequencing for all organisms**
Puritz, J. B., and Lotterhos K.E. Western Society of Naturalists. Pasadena, CA.
- 2017 **Expressed Exome Capture Sequencing: a method for cost-effective exome sequencing for all organisms**
Puritz, J. B., and Lotterhos K.E. Evolution. Portland, OR.
- 2017 **Expressed Exome Capture Sequencing (EecSeq): a method for cost-effective exome sequencing of non-model organisms**
Puritz, J. B., and Lotterhos K.E. National Shellfishery Association Meeting. Knoxville, TN.

- 2016 **Mind the gap: the effects of INDELs and over-splitting on population genetic inference from RAD sequencing**
Puritz, J. B., Portnoy, D. S., Gold, J. R. Evolution. Raleigh, NC
- 2016 **Testing the Genomic Impacts of the DWH Oil Spill on Red Snapper**
Puritz, J. B., Portnoy, D. S., Gold, J. R. Gulf of Mexico Oil Spill and Ecosystem Science Conference. Tampa Bay, FL.

CONFERENCE POSTERS (LAST 5 YEARS)

^undergraduate mentee, # post-baccalaureate mentee, * graduate student mentee

- 2021 **The effect of environmental parameters on *Crassostrea virginica* shell sizes.**
Satkowski[^], S., Zyck^{*}, A., Puritz, J.B. National Shellfishery Association Meeting. Virtual.
- 2021 **Investigating the effects of coastal stressors on the genomic variation of oyster populations in Narragansett Bay**
Zyck^{*}, A., Stevick, R., Gallagher[#], A., Padro[^], N., Gomez-Chiarri, M., Puritz J. B. National Shellfishery Association Meeting. Virtual.
- 2020 **Investigating the effects of coastal stressors on the connectivity of oyster populations in Narragansett Bay**
Zyck^{*}, A., Gallagher[#], A., Padro[#], N., Puritz J. B. National Shellfishery Association Meeting. Baltimore, MD.
Cancelled due to Covid-19
- 2020 **CASE-ing out the transcriptomics of multiple coastal anthropogenic stressors on eastern oyster larvae**
Schedl[#], M., Harvey, J. A., Lotterhos, K. E., Puritz, J. B. National Shellfishery Association Meeting. Baltimore, MD.
Cancelled due to Covid-19
- 2020 **Understanding the effects of multiple stressors on oyster larvae**
Tarrant[#], M., Zyck^{*}, A., Schedl[#], M., Puritz J. B. National Shellfishery Association Meeting. Baltimore, MD.
Cancelled due to Covid-19
- 2019 **Assessing the evolutionary response of eastern oyster larvae to exposure to coastal acidification and sewage effluent: a CASE study**
Puritz, J. B., Harvey, J. A., Lotterhos K.E. Gordon Research Conference: Ecological and Evolutionary Genomics.
- 2019 **Expressed Exome Capture Sequencing: a method for cost-effective exome sequencing for all organisms**
Puritz, J. B., and Lotterhos K.E. Evolution. Providence, RI.
- 2019 **CASE-ing out the transcriptomics of multiple coastal stressors**
Schedl[#], M., Harvey, J. A., Lotterhos, K. E., Puritz, J. B. Evolution. Providence, RI.
- 2019 **Understanding the impacts of sewage effluent on the genomic diversity and population connectivity of the fiddler crab (*Uca rapax*)**
Zyck^{*}, A. H., Dimens, P., Willis, S., Portnoy, D., Puritz J. B. Evolution. Providence, RI.
- 2019 **An Analysis of Population Structure, Genetic Variation and Outlier SNPs in the Eastern Oyster, *Crassostrea virginica***

Weedop, K. B., Freeman, K., Roberts, E., Proestou, D., Puritz, J. B., Gomez-Chiarri, M., and Lotterhos K. E. *Evolution*. Providence, RI.

- 2019 **Unlocking the exome: exploring de novo assembly options for expressed exome capture sequencing**
Green*, J. M., and Puritz J. B. *Evolution*. Providence, RI.
- 2018 **Unlocking the Exome: exploring de novo assembly options for capture sequencing**
Green#, J. M., and Puritz J. B. *Western Society of Naturalists*.
- 2015 **Fishing for selection, but only catching bias: examining library effects in double-digest RAD data in non-model marine species**
Puritz, J. B., Hollenbeck, C. M., Gold, J. R. *Plant and Animal Genomes*. San Diego, CA.

MENTORING

Undergraduate

- 2021- Anna Sorgie, Madeline Kistler, Joseph Maiorano, Finn Harty
2020-2021 Nina Padro, Anna Sorgie, Seraphina Satkowski, Allison Gallagher, Nadia Moss
2019-2020 Melati Tarrant, Allison Gallagher, Nina Padro
2018-2019 Emma Ferrante, Kevin Dyer, Marygrace Trousdel
2017-2018 Elliot Vosburgh, Kate Leiden

Primary Graduate Advisor

- | | | | |
|-------|-----------------|------|---------------------------------------|
| 2021- | Gabriel Barrett | MS. | Biological and Environmental Sciences |
| 2020- | Megan Guidry | PhD. | Biological and Environmental Sciences |
| 2019- | Natalie Ameral | MS. | Biological and Environmental Sciences |
| 2019- | Jacob Green | PhD. | Biological and Environmental Sciences |
| 2018- | Amaelia Zyck | PhD. | Biological and Environmental Sciences |

Graduate Committees

- 2020- Tyler Devos, M.S. Biological and Environmental Sciences
2019- Benjamin Ha, PhD. Ecology and Evolutionary Biology (UCLA)
2019- Ian Bishop, PhD. Graduate School of Oceanography
2019-21 Samuel Gurr, PhD. Biological and Environmental Sciences
2018-21 Erin Borbee, PhD. Biological and Environmental Sciences
2019 Martin Hellwig, PhD. Computer Science.
2018-19 Evelyn Takyi, MS. Biological and Environmental Sciences
2014-15 Patricia M. Cockett, MS. Biology (Texas A&M Corpus Christi)

PROFESSIONAL SERVICE

- 2021- **BES Leadership Committee**
Coordinator of the Evolution and Marine Biology Graduate Specialization
- 2021- **GSO Science Saturday**
Lab had an interactive research experience in Blount Aquarium
- 2021- **Sea Star Wasting Disease Working Group**
Participant

- 2018- **Functional Re-annotation of Oyster Genomes with Epigenetic Resources (FROGER) working group**
Participant
- 2018- **Moorea Coral Reef LTER Connectivity working group**
Participant
- 2018- **Equity, inclusion, diversity committee, Biological Sciences**
Member
- 2018- **Committee to establish a graduate Data Science Program at URI**
Member
- 2017- **Eastern Oyster Genome Consortium working group**
Participant, leading genome description manuscript
- 2014- **dDocent RADseq Bioinformatics pipeline**
Developer, software has over 50,000 downloads and website with 80,000 visitors
- 2019 **Faculty host at URI Welcome Day**
- 2018-2019 **Ad hoc committee for Cruickshank Lecture, Biological Sciences**
Chair
- 2018 **The power of RNA: Broad application of RNA-based sequencing for transcriptome and genome analysis**
Science Webinar- AAAS ([LINK](#))
- 2017 **Faculty host at URI Fall Open House (both events)**
- 2015-16 **HRI Senior Research Staff Steering Committee Member**
Initiated the HRI Staff Innovations Grant Program

Peer Reviewer

Proceedings of the Royal Society B
JEMBE
Molecular Ecology
BioScience
Conservation Genetics Resources
Aquatic Biology
PLoS Genetics
Nature Protocols
Molecular Ecology Resources (X6)
Methods in Ecology and Evolution
G3: Genes/Genomes/Genetics
Ecological Applications

Ecology and Evolution
MEPS
Journal of Heredity
PLoS One
Heredity
Genetica
Axios
Open Science
Genome Biology and Evolution
Hydrobiologia
New Zeal J Mar Fres
Washington Sea Grant

Evolution
Biological Invasions
Marine Biology
Conservation Genetics
Transactions of AFS
PeerJ
Biology Letters
Journal of Fish Biology
Scientific Reports
Diversity and Distribution
NSF: Bio. Oce.
NSF

AWARDS AND HONORS

- 2015 **Top 300 Reviewers of Molecular Ecology**
- 2009,11 **Best Paper Honorable Mention, Albert L. Tester Memorial Symposium**

2005-06 **National Science Foundation Graduate Research Fellowship Honorable Mention**

PUBLIC OUTREACH

- 2017- **Skype a Scientist**
The Skype a Scientist matches scientists with classrooms around the world! Scientists will skype into the classroom for 30-60 minute Q and A sessions that can cover the scientist's expertise or what it's like to be a scientist
- 2016- **Scientist Pen pal**
Working with Letters to a Pre-Scientist (<http://www.prescientist.org>) to connect with middle school students who want to learn more about being a scientist
- 2007- **Underwater Photographer**
Photo chosen for "Featured Image" for *PeerJ* (Nov 2013)
Photo chosen for "Image of the Week" for *Nature Communications* (March 2011)
Images have appeared in several publications including NOAA public reports, the Division of Land and Natural Resources Hawaii outreach posters, and several HIMB and UC Davis press releases.
- 2016 **Nahant Coastal BioBlitz**
Sponsored by the Ocean Genome Legacy and Northeastern University Marine Science Center- Volunteer Photographer and Scientist
- 2016 **BLUE On Tour Film Festival-Corpus Christi**
Sponsored by the Harte Research Institute-Volunteer Social Media Coordinator
- 2010-11 **Participant in the Pacific Symposium for Science and Sustainability**
Judged and moderated a high school science competition
- 2007-11 **Scientific Blogger**
Created a blog to document the experience of being an NSF EAPSI fellow in Australia.
jbpastralia2011.wordpress.com
Created a blog to document field research experience aboard the NOAA R/V Hi'ialakai, Northwestern Hawaiian Islands Research cruise in September of 2007.
<https://sites.google.com/site/jpuritz/cruise>
Google changed this service and formatting for this webpage is no longer correct

TRAINING AND CERTIFICATIONS

- 2014-16 **Texas A&M Corpus Christi Scientific Diver (AAUS Reciprocity)**
- 2005-12 **University of Hawaii Scientific Diver (AAUS Reciprocity)**
- 2007 **NOAA Advanced Coxswain**