Contact Information	Population Health and Reproduction University of California, Davis CCAH 1 Shields Ave	<i>E-mail:</i> ntpierce@gmail.com <i>web:</i> http://bluegenes.github.io <i>github:</i> bluegenes	
	Davis, CA 95616 USA	<i>twitter:</i> saltyscientist	
Education	Scripps Institution of Oceanography, UCSD, La Jolla, California		
	Ph.D., Marine Biology	June 20, 2017	
	Advisors: Terry Gaasterland, Ron Burton		
	Specialization: Interdisciplinary Environmental Rese	earch	
	<i>Dissertation Topic:</i> Transcriptome Resource Development for <i>Doryteuthis opalescens</i> and Embryonic Gene Expression Response to Low Oxygen and Low pH Conditions		
	Stanford University, Stanford, California		
	M.S., Biology	2009	
	Advisor: Fiorenza Micheli		
	B.S. with Honors, Biological Sciences	2009	
	Advisor: William Gilly		
	<i>Honors Thesis:</i> Venom Synthesis and Gene Expression Analysis of Toxins in the Venom Ducts of <i>Conus californicus</i> Maintained in Tissue Culture		
Research Interests	Adaptation; evolution; genomics; genetic response to climate change stressors; bioinformatics; open science; global change; ocean acidification; marine conservation biology		
Publications	Mascuch, S.J., Boudreau, P.D., Carland, T.M., <b>Pierce, N.T.</b> , Olson, J., Hensler, M.E., Choi, H., Campanale, J., Hamdoun, A., Nizet, V., Gerwick, W.H., Gaasterland, T., and Gerwick, L. Marine Natural Product Honaucin A Attenuates Inflammation by Activating the Nrf2-ARE Pathway. Journal of natural products 81.3 (2017): 506-514. DOI: 10.1021/acs.jnatprod.7b00734		
	Lindström J. B., <b>Pierce N.T.</b> and Latz M. I. Role of TRP channels in dinoflagellate mechanotrans- duction. The Biological Bulletin 233.2 (2017): 151-167. DOI: https://doi.org/10.1086/695421		
	Navarro, M.O., Kwan, G.T., Batalov, O., Choi, C., <b>Pierce, N.T.</b> , Levin, L.A. "Development of embryonic market squid, <i>Doryteuthis opalescens</i> , under chronic exposure to low environmental pH and [O2]." <i>PloS One</i> (2016).		
	Pereira, R.J., Barreto, F.S., <b>Pierce, N.T.</b> , Carneiro, M., Burton, R.S. "Transcriptome-Wide Patterns of Divergence During Allopatric Evolution." <i>Molecular Ecology</i> (2016).		
	Elliger, C.A., Richmond, T.A., Lebaric, Z.N., <b>Pierce, N.T.</b> , Sweedler, J.V., Gilly, W.F. "Diversity of conotoxin types from <i>Conus californicus</i> reflects a diversity of prey types and a novel evolutionary history." <i>Toxicon.</i> 57 (2): 311-322 (2011).		
Submitted / In Prep	<b>Pierce, N.T.</b> , Navarro, M.O., Burton, R.S., Gaasterland, T. "Effect of low pH and low O2 conditions on developmental gene expression and hatching of <i>Doryteuthis opalescens</i> embryos" <i>In Review</i> .		
Honors & Awards	<b>Fellowships</b> National Science Foundation Postdoctoral Research Fellowship in Biology, 2017-2020, \$207,000 National Science Foundation Graduate Research Fellowship in Biology, 2010-2016 National Science Foundation Integrative Graduate Education and Research Traineeship (IGERT):		

Global Change, Marine Ecosystems and Society 2010-2013

	San Diego Fellowship, 2010-2012 UCSD Center for Marine Biodiversity and Conservation Diversity Fellowship, 2010	0-2012	
	<ul> <li>Research Grants and Awards</li> <li>Center for Marine Biodiversity and Conservation Mentoring Award \$500, 2014, 200</li> <li>Ocean Global Change Biology Gordon Research Conference: Carl Storm Underree nority Fellowship \$520, 2014</li> <li>Scripps Institution of Oceanography Graduate Student Excellence Travel Award \$200</li> <li>Center for Marine Biodiversity and Conservation IGERT Research Grant,\$11,500, Stanford University VPUE Summer Research Grant, \$5200, 2008</li> <li>Stanford University Howard Hughes Medical Institute Summer Research Grant, \$200</li> <li>Chicano &amp; Latino Community Awards, Stanford University, 2005/6/7/8/9</li> </ul>	presented Mi- 700, 2014 2012	
Invited Talks & Conference Presentations	Ocean To Table Fish and Fisheries Event by SIO-UCSD, NOAA Southwest Fisheries, "Biology of the California Market Squid, <i>Doryteuthis opalescens</i> " <i>Invited talk</i>	August 2016.	
	SIO 242C: Big Data Analysis in Computational Molecular Biology, 2015. "Techniques for Differential Expression Analysis of <i>de novo</i> RNA-Seq Data" <i>Invited lecture</i>		
	Plant and Animal Genome Conference, San Diego, CA, 2015. Waksmunski, A., <b>N.T Pierce</b> , Gaasterland, T. "Automated <i>de novo</i> Transcriptome Analysis of Eukaryotic Organisms" <i>Poster</i>		
	Scripps Institution of Oceanography Student Symposium, San Diego, CA 2014. "Gene Expression Response of California Market Squid to high-CO2, low-O2 conditions" <i>Winner, best poster</i>		
	Ocean Global Change Biology Gordon Research Conference, Waterville Valley, NH, 2014. "Gene Expression Response of California Market Squid to high-CO2, low-O2 conditions" <i>Poster</i>		
	Scripps Institution of Oceanography, La Jolla, CA, 2013. "Gene Expression Response of California Market Squid to Ocean Acidification and Hypoxia Conditions" <i>Invited talk</i>		
	CSU Fullerton English as a Second Language Marine Science Symposium. "Global Change Impacts to Marine Organisms" 2012 Invited lecture		
	Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Seattle, WA, 2012. <b>N.T Pierce</b> , M.O. Navarro, and R.S. Burton. "Gene Expression Response of California Market Squid, <i>Doryteuthis opalescens</i> , to high-CO2/low-pH, low O2 conditions" <i>Poster</i>		
	Evolution, Ottawa, Canada, 2012. <b>N.T. Pierce</b> and R.S. Burton. "Variation-Aware Transcriptome Alignment Improves Gene Expression Analyses in <i>Tigriopus californicus</i> " <i>Poster</i>		
	Evolution, Norman, OK, 2011. <b>N.T Pierce</b> and R.S. Burton. "High Resolution Melting (HRM) Genotyping in <i>Tigriopus californicus</i> : An Application to Heat Stress Response" <i>Poster</i>		
Selected Service, Outreach, & Teaching	<ul> <li>SIO Bioinformatics Users Group - Co-founder</li> <li>Software Carpentry - Workshop Organizer and Instructor</li> <li>Ocean Discovery Institute - Volunteer Scientist</li> <li>SIO Team for Inclusion, Engagement, and Diversity in Science (TIDES)</li> <li>SIO 132: Intro to Marine Biology - Teaching Assistant</li> <li>SIO Diversity Initiatives Coordinator - Designed Position; Hiring Committee Men</li> <li>Expanding Your Horizons (EYH) STEM Conference for Girls - Co-led Workshop</li> <li>Intermediate RNA-Seq Workshop @ UCDavis - Instructor &amp; Developer</li> <li>Birch Aquarium at Scripps SEA Days - Volunteer scientist</li> <li>NOAA Climate Change Student Summit - Volunteer Scientist</li> <li>Stanford University, Biology 44Y: Core Biology Laboratory - Course Assistant</li> <li>Stanford University Center For Teaching and Learning - Peer Tutor</li> </ul>	2015-Present 2014-Present 2010-Present 2010 2016 2016 2016 2015 2014 2012 2009 2004-2009	
Skills	Add'l Languages: Spanish Computer programs and skills: Python; R; Git; Bash; LATE	X	

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