

# Daniel Isaac Speiser

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## EDUCATION

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2010 Ph.D, Biology  
Duke University, Durham, NC (advisor: Sönke Johnsen)

2003 B.A, Biology  
Carleton College, Northfield, MN

## PROFESSIONAL EXPERIENCE

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2014-present **Assistant Professor**  
Department of Biological Sciences, Univ. of South Carolina, Columbia, SC, USA

Spring 2014 **Assistant Research Specialist**  
Marine Science Institute, Univ. of California, Santa Barbara, CA, USA

2011-13 **Post-doctoral Fellow**  
Marine Science Institute, Univ. of California, Santa Barbara, CA, USA

Fall 2010 **Instructor**  
Marine, Earth, and Atmospheric Sciences, NC State Univ., Raleigh, NC, USA

## FUNDED SCIENTIFIC RESEARCH PROPOSALS

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2016-17 ASPIRE Proposal # 13010-16-41857 “Neurobiology of a dispersed visual system: How do chitons (Mollusca; Polyplacophora) process the images gathered by their hundreds of eyes?” **PI: Daniel Speiser (University of South Carolina)**, Co-PI: Fabienne Poulain (USC); **\$15,000 awarded to PI Speiser at USC.**

2015-19 NSF IOS Award #1457148 “Collaborative Research: Evolutionary Origins of Chiton Shell-eyes: Integrating Structure, Function, and Gene Expression within a Phylogenetic Context.” **PI: Daniel Speiser (University of South Carolina)**, Co-PI Todd Oakley (UC Santa Barbara). Amounts awarded: **\$454,624 to PI Speiser at USC**, \$162,969 to Co-PI Oakley at UCSB.

2014-18 NSF DEB Award #1354831 “RUI: Collaborative Research: Timing and Molecular Origins of Recently Evolved Chiton Shell-Eyes: Phylogenomics of Chitonina.” **PI: Doug Eernisse (CSU-Fullerton)**, Co-PI: Todd Oakley (UC Santa Barbara), **Co-PI: Daniel Speiser (University of South Carolina)**. ~\$350,000 awarded to Co-PIs Oakley and Speiser, ~\$750,000 awarded in total.

## FUNDING AWARDS AND SCHOLARSHIPS

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2007	Sigma Xi Grant-in-Aid of Research: \$400
2007	Student Travel Award for the 2007 World Congress of Malacology: \$1,000
2006-09	National Science Foundation Graduate Student Research Fellowship: \$120,000
2005	Student Support for a summer course at Friday Harbor Marine Lab: \$1,500
2004-07	James B. Duke Fellowship, Biology Department, Duke University: \$20,000

## SERVICE AND TEACHING AWARDS

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2019	Winner of a USC Breakthrough Star award
2018	Nominated for a Distinguished Undergraduate Research Mentor Award
2016	Winner of a Two Thumbs Up Award at USC (4/15/16)
2016	Nominated for a Distinguished Undergraduate Research Mentor Award

## PUBLICATIONS

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*In Preparation:* **2** papers (as of 14 October 2019).

- 2019 Kingston, A.C.N, J.T. Cannon, K.M. Kocot, L.R. Brooker, D.J. Eernisse, T.H. Oakley, and **D.I. Speiser**. Evidence for a complexity drain on sensory receptors during the stepwise evolution of the eyes of chitons. To be submitted to *eLife* by 12/31/19.
- 2019 Havens, L.T, A.C.N. Kingston, and **D.I. Speiser**. A novel method for automated and efficient electroretinography. To be re-submitted to the *Journal of Comparative Physiology A (JCPA)* by 12/31/19 (initial submission 4/17/19).

*In Press:* **2** papers (as of 14 October 2019).

- 2019 Kingston, A.C.N, R.L. Lucia, L.T. Havens, T.W. Cronin, and **D.I. Speiser**. Vision in the snapping shrimp *Alpheus heterochaelis*. *Journal of Experimental Biology*. DOI: 10.1242/jeb.209015
- 2019 Harris, O.K, A.C.N. Kingston, C.S. Wolfe, S. Ghoshroy, S. Johnsen, and **D.I. Speiser**. Core-shell nanospheres behind the blue eyes of the bay scallop *Argopecten irradians*. *Journal of the Royal Society Interface* 16: 20190383. DOI: 10.1098/rsif.2019.0383

*Published:* **25** papers (as of 14 October 2019).

- 2019 Miller, H.V, A.C.N. Kingston, Y.L. Gagnon, and **D.I. Speiser**. The mirror-based eyes of scallops demonstrate a light-evoked pupillary response. *Current Biology* 29(9): R313-R314. DOI: 10.1016/j.cub.2019.03.053
- 2019 Juarez, B.H, **D.I. Speiser**, and T.H. Oakley. Context-dependent evolution of ostracod morphology along the ecogeographical gradient of ocean depth. *Evolution* 73(6): 1213-1225. DOI:10.1111/evo.13748
- 2019 Kingston, A.C.N, J.D. Sigwart, D.R. Chappell, and **D.I. Speiser**. Monster or multiplacophoran: A teratological specimen of the chiton *Acanthopleura granulata*

- (Mollusca: Polyplacophora) with a valve split into independent and symmetrical halves. *Acta Zoologica*. DOI: 10.1111/azo.12289
- 2018 Kingston, A.C.N, D.R. Chappell, and **D.I. Speiser**. Evidence for spatial vision in *Chiton tuberculatus*, a chiton with eyespots. *Journal of Experimental Biology* 221(19). DOI: 10.1242/jeb.183632
- 2017 Kingston, A.C.N, D.R. Chappell, H.V. Miller, S.J. Lee, and **D.I. Speiser**. Expression of G Proteins in the Eyes and Parietovisceral Ganglion of the Bay Scallop *Argopecten irradians*. *The Biological Bulletin* 233(1): 83-95. DOI: 10.1086/694448
- 2017 Ramirez, M.D, A.N. Pairett, M.S. Pankey, J.M. Serb, **D.I. Speiser**, A.J. Swafford, and T.H. Oakley. The Last Common Ancestor of Most Bilaterian Animals Possessed at Least Nine Opsins. *Genome Biology and Evolution* 8(12): 3640-3652. DOI: 10.1093/gbe/evw248
- 2017 Williams, S. T, A.E. Lockyer, P. Dyal, T. Nakano, C.K. Churchill, and **D.I. Speiser**. Colorful seashells: Identification of haem pathway genes associated with the synthesis of porphyrin shell color in marine snails. *Ecology and Evolution*, 7(23): 10379-10397. DOI:10.1002/ece3.3552
- 2016 **Speiser, D.I**, Y.L. Gagnon, R.K. Chhetri, A.L. Oldenburg, and S. Johnsen. Examining the Effects of Chromatic Aberration, Object Distance, and Eye Shape on Image-Formation in the Mirror-Based Eyes of the Bay Scallop *Argopecten irradians*. *Integrative and Comparative Biology* 56(5): 796-808. DOI: 10.1093/icb/icw099
- 2016 **Speiser, D.I**, and L.A. Wilkins. Neurobiology and Behaviour of the Scallop. In book: *Scallops: Biology, Ecology, Aquaculture, and Fisheries* 3rd Edition, eds. S.E. Shumway and G.J. Parsons. Elsevier Science, pp. 219-251.
- 2016 Williams, S.T, S. Ito, K. Wakamatsu, T. Goral, N.P. Edwards, R. A. Wogelius, T. Henkel, L.F.C. de Oliveira, L.F. Maia, S. Strekopytov, T. Jeffries, **D.I. Speiser**, and J.T. Marsden. Identification of Shell Colour Pigments in Marine Snails *Clanculus pharaonius* and *C. margaritarius* (Trochoidea; Gastropoda). *PLoS ONE* 11(7): e0156664. DOI: 10.1371/journal.pone.0156664
- 2015 Li, L, M.J. Connors, M. Kolle, G.T. England, **D.I. Speiser**, X. Xiao, J. Aizenberg, and C. Ortiz. Multifunctionality of chiton biomineralized armor with an integrated visual system. *Science* 350(6263): 952-956. DOI: 10.1126/science.aad1246
- 2015 Stahl, B.A, J.B. Gross, **D.I. Speiser**, T.H. Oakley, N.H. Patel, D.B. Gould, and M.E. Protas. A Transcriptomic Analysis of Cave, Surface, and Hybrid Isopod Crustaceans of the Species *Asellus aquaticus*. *PLoS ONE* 10(10): e0140484. DOI: 10.1371/journal.pone.0140484
- 2015 Oakley, T.H. and **D.I. Speiser**. How Complexity Originates: The Evolution of Animal Eyes. *Annual Review of Ecology, Evolution, and Systematics* 46: 237-260. DOI: 10.1146/annurev-ecolsys-110512-135907

- 2015 Battelle, B.A., K.E. Kempler, S.R. Saraf, C.E. Marten, D.R. Dugger, **D.I. Speiser**, and T.H. Oakley. Opsins in *Limulus* eyes: characterization of three visible light-sensitive opsins unique to and co-expressed in median eye photoreceptors and a peropsin/RGR that is expressed in all eyes. *Journal of Experimental Biology* 218: 466-479.  
DOI: 10.1242/jeb.116087.
- 2014 **Speiser, D.I.**, M.S. Pankey, A.K. Zaharoff, B.A Battelle, H.D. Bracken-Grissom, J.W. Breinholt, S.M. Bybee, T.W. Cronin, A. Garm, A.R. Lindgren, N.H. Patel, M.L. Porter, M.E. Protas, A.S. Rivera, J.M. Serb, K.S. Zigler, K.A. Crandall, and T.H.Oakley. Using phylogenetically-informed annotation (PIA) to search for light-interacting genes in transcriptomes from non-model organisms. *BMC Bioinformatics* 15: 350.  
DOI: 10.1186/s12859-014-0350-x.
- 2014 **Speiser, D.I.**, D.G. DeMartini, and T.H. Oakley. The shell-eyes of the chiton *Acanthopleura granulata* (Mollusca, Polyplacophora) use pheomelanin as a screening pigment. *Journal of Natural History* 48: 2899-2911.  
DOI: 10.1080/00222933.2014.959572.
- 2014 Gagnon, Y.L, **D.I. Speiser**, and S. Johnsen. Simplifying numerical ray-tracing for characterisation of optical systems. *Applied Optics* 53: 4784-4790.  
DOI: 10.1364/AO.53.004784.
- 2013 Brandley, N.C, **D.I. Speiser**, and S. Johnsen. Eavesdropping on visual secrets. *Evolutionary Ecology* 27: 1045-1068. DOI: 10.1007/s10682-013-9656-9.
- 2013 Porter, M.L, **D.I. Speiser**, A.K. Zaharoff, R.L. Caldwell, T.W. Cronin and T.H. Oakley. The evolution of complexity in the visual systems of stomatopods: Insights from transcriptomics. *Integrative and Comparative Biology* 53: 39-49.  
DOI: 10.1093/icb/ict060.
- 2013 **Speiser, D.I.**, R.I. Lampe, V.R. Lovdahl, B. Carrillo-Zazueta, A.S. Rivera and T.H. Oakley. Evasion of predators contributes to the maintenance of male eyes in dimorphic *Euphilomedes* ostracods (Crustacea). *Integrative and Comparative Biology* 53: 78-88.  
DOI: 10.1093/icb/ict025.
- 2011 Ramirez, M.D, **D.I. Speiser**, M.S. Pankey, and T.H. Oakley. Understanding the dermal light sense in the context of integrative photoreceptor cell biology. *Visual Neuroscience* 28: 265-279. DOI: 10.1017/S0952523811000150.
- 2011 **Speiser, D.I.**, D. Eernisse, and S. Johnsen. A chiton uses aragonite lenses to form images. *Current Biology* 21: 665-670. DOI: 10.1016/j.cub.2011.03.033.
- 2011 **Speiser, D.I.**, E.R. Loew, and S. Johnsen. Spectral sensitivity of the concave mirror eyes of scallops: Potential influences of habitat, self-screening and longitudinal chromatic aberration. *Journal of Experimental Biology* 214: 422-431.  
DOI: 10.1242/jeb.048108.

- 2008 **Speiser, D.I.**, and S. Johnsen. Comparative morphology of the concave mirror eyes of scallops (Pectinoidea). *American Malacological Bulletin* 26: 27-34.  
DOI: 10.4003/006.026.0204.
- 2008 **Speiser, D.I.**, and S. Johnsen. Scallops visually respond to the presence and speed of virtual particles. *Journal of Experimental Biology* 211: 2066-2070. DOI: 10.1242/jeb.017038.

#### **SOCIETY PRESENTATIONS (AS FIRST-AUTHOR AFTER 2010)**

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- 2019 World Congress of Malacology meeting – Pacific Grove, CA, USA (Aug. 11-16, **invited**)
- 2019 International Conference on Invertebrate Vision – Backaskög, Sweden (Aug. 5-12)
- 2019 Society for Integrative and Comparative Biology meeting – Tampa, FL, USA
- 2018 Southeast Regional SICB meeting, Clemson, SC, USA
- 2018 International Conference of Neuroethology – Brisbane, Au (**symposium organizer**)
- 2018 Society for Integrative and Comparative Biology meeting – San Francisco, CA, USA
- 2017 National Shellfish Association meeting – Knoxville, TN, USA (**invited**)
- 2017 Society for Integrative and Comparative Biology meeting – New Orleans, USA (**invited**)
- 2016 Southeast Regional SICB meeting, Durham, NC, USA
- 2016 World Congress of Malacology meeting – Penang, Malaysia (**invited**)
- 2016 American Malacological Society Annual Meeting – Ensenada, Mexico (**invited**)
- 2016 Society for Integrative and Comparative Biology meeting – Portland, OR, USA (**invited**)
- 2015 Society for Integrative and Comparative Biology meeting – West Palm Beach, FL, USA
- 2014 Southeast Regional SICB meeting, Chapel Hill, NC, USA
- 2014 Society for Integrative and Comparative Biology meeting – Austin, TX, USA
- 2013 International Conference on Invertebrate Vision – Backaskög, Sweden
- 2013 World Congress of Malacology meeting – Azores, Portugal (**invited**)
- 2013 Society for Integrative and Comparative Biology meeting – San Francisco, CA, USA
- 2012 Society for Integrative and Comparative Biology meeting – Charleston, SC, USA
- 2011 Western Society of Malacology annual meeting – La Paz, Mexico
- 2011 Society for Integrative and Comparative Biology annual meeting – SLC, UT, USA
- 2010 Society for the Study of Evolution annual meeting – Portland, OR, USA
- 2010 Society for Integrative and Comparative Biology annual meeting – Seattle, WA, USA

#### **INVITED WORKSHOPS**

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- 2017 21<sup>st</sup> International Pectinid Workshop – Portland, Maine
- 2015 20<sup>th</sup> International Pectinid Workshop – Galway City, Ireland
- 2014 Workshop on Distributed Sensing, Actuation, and Control for Bio-inspired Soft Robotics; University of Maryland, College Park, MD, USA.
- 2013 Emergent Design in Biological and Bioinspired Materials: Beyond the Rule of Mixtures; MIT Institute for Soldier Nanotechnologies, Boston, MA.

## INVITED SEMINARS

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- 2019 Seminar for the Virginia Institute of Marine Science (VIMS) Eastern Shore Lab, Wachapreague, VA, USA (3 April 2019). Invited by Director Richard Snyder.
- 2018 Seminar for the Department of Invertebrate Zoology, Smithsonian National Museum of Natural History, Washington D.C., USA (2 May 2018). Invited by Research Zoologist Karen Osborn.
- 2018 Department of Biology seminar series, University of Maryland, College Park, MD, USA (30 April 2018). Invited by Associate Professor Alexa Bely.
- 2018 Hobcaw Research Symposium, Baruch Institute of Coastal Ecology and Forest Science, Georgetown, SC, USA (9 February 2018).
- 2017 Ecology, Evolution, and Organismal Biology seminar series, Iowa State University, Ames, IA (14 November 2017). Invited by Associate Professor Jeanne Serb.
- 2017 Department of Biology and Geology seminar series, University of South Carolina, Aiken, SC, USA (3 November 2017). Invited by Dr. Kelly Gibson.
- 2017 Population Biology Seminar Series, Duke University, Durham, NC, USA (21 September 2017). Invited by Julia Notar.
- 2017 Fort Johnson Marine Science Seminar Series, Fort Johnson, Charleston, SC, USA (15 September 2017). Invited by Dr. Peter Kingsley-Smith.
- 2017 Symposium on Molluscan Colour and Vision, Natural History Museum, London, England (27 April 2017). Invited by Dr. Susan Williams.
- 2017 Biology Department Seminar, Brigham Young University, Provo, UT, USA (12 April 2017). Invited by Professor Seth Bybee.
- 2016 Evolutionary Morphology Seminar Series, University of Chicago, Chicago, IL, USA (17 November 2016). Invited by Professor David Jablonski.
- 2016 Department of Biological Sciences, University of Alabama, AL, USA (14 October 2016). Invited by Assistant Professor Kevin Kocot.
- 2016 Oregon Institute of Marine Biology, Univ. of Oregon, Charleston, OR, USA (27 May 2016). Invited by Assistant Professor George von Dassow.
- 2016 Department of Biology, Dalhousie University, Halifax, Nova Scotia, Canada (10 March 2016). Invited by Postdoctoral Fellow Isabelle Tremblay.
- 2015 Whitney Laboratory for Marine Bioscience, University of Florida, Marineland, FL, USA (11 December 2015). Invited by Professor Mark Q. Martindale.
- 2015 Marine Sciences Program, University of South Carolina, Columbia, SC, USA (27 March 2015). Invited by Assistant Professor Howie Scher.
- 2015 School of Medicine, Univ. of South Carolina, Columbia, SC, USA (16 March 2015). Invited by Professor Janet Fisher.
- 2015 Department of Biology, Carleton College, Northfield, MN, USA (9 March 2015). Invited by Professor Mark McKone.

- 2013 Department of Biological Science, California State Univ., Fullerton, CA, USA. Invited by Professor Doug Eernisse.
- 2011 Evolution, Ecology, and Behavior Seminar, Univ. of Texas, Austin, TX, USA. Invited by Drs. Robin Hopkins and David Des Marais.

## **PROFESSIONAL SERVICE**

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*Peer reviews of manuscripts (44 in total) have been provided for the following scientific journals:*

- 2019 Current Biology; EvoDevo; Journal of Experimental Biology (4X); Marine Biology.
- 2018 Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology; Hydrobiologia; Integrative and Comparative Biology; Journal of Molluscan Studies; Journal of Shellfish Research.
- 2017 Biological Bulletin; BMC Biology; BMC Genomics; Hydrobiologia; Integrative and Comparative Biology; Journal of Experimental Biology (2X); Journal of Experimental Zoology Part B; Proceedings of the Royal Society B: Biological Sciences; Science.
- 2016 BMC Evolutionary Biology (2X); JEZ Part B: Molecular and Developmental Evolution; Journal of Molluscan Studies; Marine Biodiversity; Vision Research.
- 2015 BMC Evolutionary Biology; EvoDevo; ICES Journal of Marine Science; Zoologischer Anzeiger; Journal of Molluscan Studies; Marine Biology; Zoomorphology.
- 2014 BMC Evolutionary Biology; Chinese Journal of Oceanology and Limnology; Journal of Experimental Marine Biology and Ecology; Journal of Natural History; Journal of Shellfish Research.
- 2010-13 Acta Zoologica; Am. Malacological Bulletin; Molecular Biology and Evolution (2X).

*Peer reviews of research proposals have been provided for the following scientific organizations:*

- 2019 Austrian Science Fund (external mail reviewer, review due 4 September 2019).
- 2018 Human Frontier Science Program (external mail reviewer); Icelandic Research Fund (external reviewer).
- 2017 National Science Foundation Division of Integrative and Organismal Biology (Ad hoc); South Carolina IDeA Networks of Biomedical Research Excellence (SC INBRE).
- 2016 Biotechnology and Biological Sciences Research Council (BBSRC); Natural Environment Research Council of the UK (NERC); NSF Division of Environmental Biology (Ad hoc); NSF Division of Integrative and Organismal Biology (Ad hoc).

## TEACHING EXPERIENCE

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Fall 2019	Instructor, University of South Carolina, BIOL 543 <b>Comparative Physiology</b> (Lecture, 35 students).
Spring 2019	Instructor, University of South Carolina, BIOL 635 <b>Neurophysiology</b> (Lecture/Seminar/Lab, 12 students).
Fall 2018	Instructor, University of South Carolina, BIOL 543 <b>Comparative Physiology</b> (Lecture, 45 students).
Spring 2018	Instructor, University of South Carolina, BIOL 635 <b>Neurophysiology</b> (Lecture/Seminar/Lab, 12 students).
Fall 2017	Instructor, University of South Carolina, BIOL 543 <b>Comparative Physiology</b> (Lecture, 57 students).
Spring 2017	Instructor, University of South Carolina, BIOL 635 <b>Neurobiology</b> (Lecture/Seminar/Lab, 12 students).
Fall 2016	Instructor, University of South Carolina, BIOL 543 <b>Comparative Physiology</b> (Lecture, 72 students).
Spring 2016	Instructor, University of South Carolina, BIOL 635 <b>Neurobiology</b> (Lecture/Seminar/Lab, 12 students).
Fall 2015	Instructor, University of South Carolina, BIOL 543 <b>Comparative Physiology</b> (Lecture, 66 students).
Spring 2015	Instructor, University of South Carolina, BIOL 543 <b>Comparative Physiology</b> (Lecture, 83 students).
Summer 2013	Instructor, Univ. of Calif. Santa Barbara, EEMB 194 <b>Visual Ecology</b> (Seminar).
Spring 2013	Reader, Univ. of Calif. Santa Barbara, EEMB 102 <b>Macroevolution</b> (Lecture).
Fall 2012	Co-Instructor, Univ. of Calif. Santa Barbara, EEMB 112 <b>Invertebrate Zoology</b> (Lecture, ~60 students).
Fall 2010	Instructor, NC State University, MEA 200 <b>Introduction to Oceanography</b> (Lecture, ~80 students).
Spring 2006, '10	Teaching Assistant, Duke University, <b>Principles of Animal Physiology</b> (Lab).
Summer 2002, '03	Rhetoric Assistant, Carleton College Summer Writing Program.

## POSTDOCTORAL MENTEES AT THE UNIVERSITY OF SOUTH CAROLINA

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Dr. Alex Kingston	Fall 2015-present
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## GRADUATE MENTEES AT THE UNIVERSITY OF SOUTH CAROLINA

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Nicholas Steichmann (PhD)	Starting Fall 2019	
Daniel Chappell (PhD)	Fall 2015 - present	
Natalie Sanchez (MS)	Fall 2016 – Fall 2018	Graduated Fall '18





## SERVICE ACTIVITIES AT USC

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### *On-going service activities*

2018-present	<b>Future Hires Committee</b> , Department of Biological Sciences.
2017-present	<b>Curriculum Committee</b> , Department of Biological Sciences.
2016-present	<b>Carolina and McNair Scholars</b> , mentor for students.
2016-present	<b>Graduate Assoc. of Biological Sciences (GABS)</b> , Faculty advisor.
2015-present	<b>Graduate Studies Committee</b> , Department of Biological Sciences.
2015-present	<b>Undergraduate Awards Committee</b> , Dept. of Biological Sciences.

### *Past service activities*

2019	Administered Qualifying Exams for 1 <sup>st</sup> year Evolutionary & Ecological Biology (EEB) graduate students (4/24/2019).
2019	Co-hosted Departmental Speaker: Dr. Erica Westerman, University of Arkansas (3/31/19 – 4/2/2019).
2019	Lectured for PHPH 740: Neuroscience (3/4/19).
2019	Guest lectures for MSCI 510: Invertebrate Zoology (2/15 and 2/18).
2019	Contributed to an ASPIRE III proposal submitted by Dr. Michael Shtutman (2/25/19).
2019	Contributed to an ASPIRE III proposal submitted by Dr. Soumitra Ghoshroy (2/25/19).
2018-19	<b>Faculty Search Committee</b> for Evolutionary Biology Candidate.
2018	Guest lecture for MSCI 450: Biological Oceanography (11/28/18).
2018	Guest lecture for BIOL 553: Genomics (4/26/18).
2018	Administered Qualifying Exams for 1 <sup>st</sup> year Evolutionary & Ecological Biology (EEB) graduate students (4/9/18).
2018	Reviewed Magellan Scholar proposals (4/6/18).
2018	Hosted Departmental Speaker: Dr. Melissa Hughes, CoC (4/6/18).
2018	NeuroNet Presentation (3/28/2018).
2018	Contributed to an ASPIRE III proposal submitted by Dr. Michael Shtutman (2/23/18).
2017-18	<b>Faculty Search Committee</b> for Population Ecology Candidate.
2017	Guest lecture for MSCI 450: Biological Oceanography (11/13/17).
2017	Led tours of the EWS seawater lab for SEOE Parent's Day (10/6/17).
2017	Reviewed ASPIRE-I proposals for the Office of the VPR.
2017	Reviewed Magellan Scholar proposals (3/30/17).

- 2017 Administered Qualifying Exams for 1<sup>st</sup> year Integrative Biology (IB) graduate students (3/22/17).
- 2017 Lectured for PHPH 740: Neuroscience (2/20/17).
- 2017 Hosted Departmental Speaker: Dr. Christine Bedore, GSU (1/23/17).
- 2016-17 **Faculty Search Committee** for DBER Candidate.
- 2016 Guest lectures for MSCI 450: Biol. Oceanography (11/7 and 11/9).
- 2016 Led a tour of the EWS seawater lab for SEOE Parent's Day (9/16/16).
- 2016 Hosted Departmental Speaker: Kevin Kocot, U of Alabama (4/25/16).
- 2016 Guest lecture for Bert Ely's PREP/IMSD students (2/10/16).
- 2015 Hosted Departmental Speaker: Jeanne Serb, Iowa State (4/13/15)
- 2015 Helped host Departmental Speaker: Todd Oakley, UCSB (3/23/15)
- 2014 Helped organize and lead BIOL 801

#### **SELECTED OUTREACH ACTIVITIES (since 2016)**

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- 2018 Co-organized a symposium titled "Neuroethology of Distributed Visual Systems: How do many-eyed animals perceive the world?" for the 2018 International Conference of Neuroethology (held 15-20 July 2018 in Brisbane, Australia).
- 2017 Organized and co-edited a virtual symposium for the journal *Biological Bulletin* on "New insights from genetic datasets on the function and evolution of visual systems" (symposium published August 2017).
- 2017 Reviewed proposals for the NSF's Spring 2017 Animal Evolution of Developmental Mechanisms Review Panel (March 8-10 in Arlington, VA, USA).
- 2017 Interviewed by Carl Zimmer (for the *NY Times*) and Ed Yong (for *The Atlantic*) regarding an article about scallop eyes in *Science* (among other media requests).
- 2016 Contributed material for an exhibit at The Natural History Museum of London titled "Colour and Vision" (<http://www.nhm.ac.uk/visit/exhibitions/colour-and-vision-exhibition.html>).
- 2016 Consulted on an article in Science News titled "Some animals 'see' the world through oddball eyes" (published 5/18/2016, story by Susan Milius).
- 2016 Consulted on the "Smallest Mollusk Museum" (an outreach and education project by Amanda Schochet).
- 2016 Consulted on an article about scallops for the children's magazine Scholastic News (article by Laine Falk).
- 2016 Consulted on an article about chitons for the French magazine Science et Vie Junior.
- 2016 Contributed to a National Geographic article on eye diversity in invertebrates with a story by Ed Yong and photos by David Liittschwager (<https://www.nationalgeographic.com/magazine/2016/02/evolution-of-eyes/>).