Dr. Casey William Dunn– Curriculum Vitae

1 Position and Contact Information

Professor
Ecology and Evolutionary Biology
Yale University
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http://dunnlab.org/
http://creaturecast.org/
http://practicalcomputing.org/
twitter – @caseywdunn
scholar.google.com – Casey Dunn
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bitbucket.org – caseywdunn
vimeo.com – Casey Dunn
medium.com – @caseywdunn
flickr.com – Casey Dunn

2 Education

2005	Ph.D. Yale University, Department of Ecology and Evolutionary Biology (With Distinction)
2003	M.S. Yale University, Department of Ecology and Evolutionary Biology
1999	B.S. Stanford University, Biological Sciences (Honors, Phi Beta Kappa)

3 Professional Appointments

2017–present	Professor, Ecology and Evolutionary Biology, Yale University
2017–present	Adjunct Professor, Ecology and Evolutionary Biology, Brown University
2014–2017	Associate Professor, Ecology and Evolutionary Biology, Brown University
2010–2014	Manning Assistant Professor, Ecology and Evolutionary Biology, Brown University
2008–2010	Assistant Professor, Ecology and Evolutionary Biology, Brown University
2007–2008	Assistant Professor (Research), Ecology and Evolutionary Biology, Brown University
2005–2007	Postdoctoral Fellow, Kewalo Marine Lab, University of Hawaii

4 Completed Publications

a. Books/ monographs

SHD Haddock and CW Dunn. (2010) Practical Computing for Biologists. 538 pages. Sinauer Associates. Sunderland, MA. http://practicalcomputing.org.

b. Chapters in books

Giribet, G, CW Dunn, GD Edgecombe, A Hejnol, MQ Martindale, and GW Rouse (2009) Assembling the spiralian tree of life (p 52-64) In: Animal Evolution. MJ Telford and DTJ Littlewood (eds). Oxford University Press.

Mills, CE, AC Marques, AE Migotto, DR Calder, C Hand, JT Rees, SHD Haddock, CW Dunn, and PR Pugh. (2007) Hydrozoa: Polyps, Hydromedusae, and Siphonophora. In: The Light & Smith manual: intertidal invertebrates from central California to Oregon, 4th edition. JT Carlton (ed). University of California Press.

c. Refereed journal articles

Dunn, CW, C Munro (2016) Comparative genomics and the diversity of life. Zoologica Scripta 45:5-13. http://dx.doi.org/10.1111/zsc.12211.

Guang, A, F Zapata, M Howison, CE Lawrence, CW Dunn (2016) An Integrated Perspective on Phylogenetic Workflows. Trends in Ecology and Evolution 31:116-126. http://dx.doi.org/10.1016/j.tree.2015.12.007.

Dunn, CW (2015) Acorn worms in a nutshell. Nature 527:448-449. http://dx.doi.org/10.1038/nature16315.

Zapata, F, FE Goetz, SA Smith, M Howison, S Siebert, S Church, SM Sanders, CL Ames, CS McFadden, SC France, M Daly, AG Collins, SHD Haddock, CW Dunn, P Cartwright (2015) Phylogenomic analyses support traditional relationships within Cnidaria. PLoS One 10(10): e0139068. http://dx.doi.org/10.1371/journal.pone.0139068. BioRxiv preprint: http://dx.doi.org/10.1101/017632. Git code repository: https://bitbucket.org/caseywdunn/cnidaria2014.

Dunn, CW, JT Ryan (2015) The evolution of animal genomes. Current Opinion in Genetics and Development 35:25-32. http://dx.doi.org/10.1016/j.gde.2015.08.006

Haddock, SH, CW Dunn (2015) Fluorescent proteins function as a prey attractant: experimental evidence from the hydromedusa Olindias formosus and other marine organisms. Biology Open 4:1094-1104. http://dx.doi.org/10.1242/bio.012138.

Church, SH, JF Ryan, CW Dunn (2015) Automation and Evaluation of the SOWH Test of Phylogenetic Topologies with SOWHAT. Systematic Biology 64(6):1048-1058. http://dx.doi.org/10.1093/sysbio/syv055. BioRxiv preprint: http://dx.doi.org/10.1101/005264. Git code repository: https://github.com/josephryan/sowhat.

Laumer, CE, N Bekkouche, A Kerbl, F Goetz, RC Neves, MV Sørensen, RM Kristensen, A Hejnol, CW Dunn, G Giribet, K Worsaae (2015) Spiralian Phylogeny Informs the Evolution of Microscopic Lineages. Current Biology 25(15):2000-2006. http://dx.doi.org/10.1016/j.cub.2015.06.068.

Church, SH, S Siebert, P Bhattacharyya, CW Dunn (2015) The Histology of *Nanomia bijuga* (Hydrozoa: Siphonophora). J. Exp. Zool. (Mol. Dev. Evol.) 324(5):435-449. http://dx.doi.org/10.1002/jez.b.22629. BioRxiv preprint: http://dx.doi.org/10.1101/010868.

Siebert, S, FE Goetz, SH Church, P Bhattacharyya, F Zapata, SHD Haddock, and CW Dunn (2015) Stem Cells in a Colonial Animal with Localized Growth Zones. EvoDevo 6:22. http://dx.doi.org/10.1186/s13227-015-0018-2. BioRxiv preprint: http://dx.doi.org/10.1101/001685. Git code repository: https://bitbucket.org/caseywdunn/siebert_etal.

Salinas-Saavedra, M, TQ Stephenson, CW Dunn, MQ Martindale (2015) Par system components are asymmetrically localized in ectodermal epithelia, but not during early development in the sea anemone *Nematostella vectensis*. EvoDevo 6:20. http://dx.doi.org/10.1186/s13227-015-0014-6.

Helm, RR, S Tiozzo, MKS Lilley, F Lombard, CW Dunn (2015) Comparative muscle development of scyphozoan jellyfish with simple and complex life cycles. EvoDevo 6:11. http://dx.doi.org/10.1186/s13227-015-0005-7.

Dunn, CW, SP Leys, SHD Haddock (2015) The hidden biology of sponges and ctenophores. Trends in Ecology and Evolution 30:282-291. http://dx.doi.org/10.1016/j.tree.2015.03.003.

Reich, A, CW Dunn, K Akasaka, G Wessel (2015) Phylogenomic Analyses of Echinodermata Support the Sister Groups of Asterozoa and Echinozoa. PLoS One 10:e0119627. http://dx.doi.org/10.1371/journal.pone.0119627.

Gonzalez, VL, SCS Andrade, R Bieler, TM Collins, CW Dunn, PM Mikkelsen, JD Taylor, G Giribet (2015) A phylogenetic backbone for Bivalvia: an RNA-seq approach. Proceedings of the Royal Society B: Biological Sciences 282:20142332. http://dx.doi.org/10.1098/rspb.2014.2332.

Dunn, CW, G Giribet, GD Edgecombe, A Hejnol (2014) Animal Phylogeny and its Evolutionary Implications. Annual Review of Ecology, Evolution, and Systematics 45:371-395. http://dx.doi.org/10.1146/annurev-ecolsys-120213-091627.

Zapata, F, NG Wilson, M Howison, SCS Andrade, KM Jörger, Michael Schrödl, Freya E Goetz, Gonzalo Giribet, Casey W Dunn (2014) Phylogenomic analyses of deep gastropod relationships reject Orthogastropoda. Proceedings of the Royal Society B: Biological Sciences 281:1471-2954. http://dx.doi.org/10.1098/rspb.2014.1739. BioRxiv preprint: http://dx.doi.org/10.1101/007039. Git code repository: https://bitbucket.org/caseywdunn/gastropoda.

Dunn, CW (2014) Reconsidering the phylogenetic utility of miRNA in animals. PNAS 111:12576-12577. http://dx.doi.org/10.1073/pnas.1413545111.

Howison, M, F Zapata, EJ Edwards, and CW Dunn (2014) Bayesian genome assembly and assessment by Markov Chain Monte Carlo sampling. PLoS One 9:e99497. http://dx.doi.org/10.1371/journal.pone.0099497. arXiv preprint: http://arxiv.org/abs/1308.1388. Git code repository: https://bitbucket.org/mhowison/gabi. Example analysis report: https://web3.ccv.brown.edu/mhowison/gabi-report/.

Lopez, J, H Bracken-Grissom, A Collins, T Collins, K Crandall, D Distel, C Dunn, et al. (2014) Global Invertebrate Genomics Alliance (GIGA): Developing Community Resources to Study Diverse Invertebrate Genomes. Journal of Heredity 105:1-18. http://dx.doi.org/10.1093/jhered/est084

Ryan, JF, K Pang, CE Schnitzler, A Nguyen, RT Moreland, DK Simmons, BJ Koch, WR Francis, P Havlak, NISC Comparative Sequencing Program, SA Smith, NH Putnam, SHD Haddock, CW Dunn, TG Wolfsberg, JC Mullikin, MQ Martindale, AD Baxevanis (2013) The genome of the ctenophore *Mnemiopsis leidyi* and its implications for cell type evolution. Science 432:1242592. http://dx.doi.org/10.1126/science.1242592.

CW Dunn, M Howison, and F Zapata (2013) Agalma: an automated phylogenomics workflow. BMC Bioinformatics 14:330. http://dx.doi.org/10.1186/1471-2105-14-330. arXiv preprint: http://arxiv.org/abs/1307.6432. Git code repository: https://bitbucket.org/caseywdunn/agalma (software), https://bitbucket.org/caseywdunn/dunnhowisonzapata2013 (analyses).

Howison, M, F Zapata, CW Dunn (2013) Toward a statistically explicit understanding of *de novo* sequence assembly. Bioinformatics 29:2959-2963. http://dx.doi.org/10.1093/bioinformatics/btt525.

Siebert, S, PR Pugh, SHD Haddock, CW Dunn (2013) Re-evaluation of characters in Apolemiidae (Siphonophora), with description of two new species from Monterey Bay, California. Zootaxa 3702: 201-232. http://www.mapress.com/zootaxa/2013/f/zt03702p232.pdf. Accompanying video of new species available at https://vimeo.com/59928656.

Dunn, CW, X Luo, Z Wu (2013) Phylogenetic analysis of gene expression. Integrative and Comparative Biology 53:847-856. http://dx.doi.org/10.1093/icb/ict068. arXiv preprint: http://arxiv.org/abs/1302.2978. Git code repository: https://bitbucket.org/caseywdunn/sicb2013.

Helm, RR, S Siebert, S Tulin, J Smith, CW Dunn (2013) Characterization of differential transcript abundance through time during *Nematostella vectensis* development. BMC Genomics 14:266. http://dx.doi.org/10.1186/1471-2164-14-266. Git code repository: https://bitbucket.org/caseywdunn/helm_etal_2013.

Howison, M, N Sinnott-Armstrong, CW Dunn (2012) BioLite, a lightweight bioinformatics framework with automated tracking of diagnostics and provenance. 4th USENIX Workshop on the Theory and Practice of Provenance (TaPP12). https://www.usenix.org/system/files/conference/tapp12/tapp12-final5.pdf (peer-reviewed conference proceeding).

Smith, SA, NG Wilson, F Goetz, C Feehery, SCS Andrade, GW Rouse, G Giribet, CW Dunn (2011) Resolving the evolutionary relationships of molluscs with phylogenomic tools. Nature 480:364-367. http://dx.doi.org/10.1038/nature10526.

Siebert, S, MD Robinson, SC Tintori, F Goetz, RR Helm, SA Smith, N Shaner, SHD Haddock, CW Dunn (2011) Differential Gene Expression in the Siphonophore *Nanomia bijuga* (Cnidaria) Assessed with Multiple Next-Generation Sequencing Workflows. PLoS One 6(7): e22953. http://dx.doi.org/10.1371/journal.pone.0022953.

Edgecombe, GD, G Giribet, CW Dunn, A Hejnol, RM Kristensen, RC Neves, GW Rouse, K Worsaae, and MV Sørensen (2011) Higher-level metazoan relationships: recent progress and remaining questions. Organisms, Diversity, and Evolution 11:151-172. http://dx.doi.org/10.1007/s13127-011-0044-4.

Hejnol, A, M Obst, A Stamatakis, M Ott, G Rouse, G Edgecombe, P Martinez, J Baguñà, X Bailly, U Jondelius, M Wiens, WEG Müller, Elaine Seaver, WC Wheeler, MQ Martindale, G Giribet, and CW Dunn (2009) Assessing the root of bilaterian animals with scalable phylogenomic methods. Proc. R. Soc. B. 276:4261-4270. http://dx.doi.org/10.1098/rspb.2009.0896. Git repository: https://bitbucket.org/caseywdunn/hejnol_etal_2009.

Cartwright, P, NM Evans, CW Dunn, AC Marques, MP Miglietta, P Schuchert, and AG Collins (2008) Phylogenetics of Hydroidolina (Hydrozoa: Cnidaria). Journal of the Marine Biological Association of the United Kingdom 88:1663-1672. http://dx.doi.org/10.1017/S0025315408002257.

Dunn, CW, A Hejnol, DQ Matus, K Pang, WE Browne, SA Smith, E Seaver, GW Rouse, M Obst, GD Edgecombe, MV Sørensen, SHD Haddock, A Schmidt-Rhaesa, A Okusu, RM Kristensen, WC Wheeler, MQ Martindale, and G Giribet (2008) Broad phylogenomic sampling improves resolution of the Animal Tree of Life. Nature 452:745-749. http://dx.doi.org/10.1038/nature06614. (Cover Article).

Smith, SA and CW Dunn (2008) Phyutility: a phyloinformatics tool for trees, alignments, and molecular data. Bioinformatics. 24:715-716. http://dx.doi.org/10.1093/bioinformatics/btm619. Code repository: https://code.google.com/p/phyutility .

Giribet, G, CW Dunn, GD Edgecombe, and GW Rouse (2007) A modern look at the Animal Tree of Life. Zootaxa 1668:61-79.

Oota, H, CW Dunn, WC Speed, AJ Pakstis, MA Palmatier, JR Kidd and KK Kidd (2007) Conservative evolution in duplicated genes of the primate Class I ADH cluster. Gene 392:64-76. http://dx.doi.org/10.1016/j.gene.2006.11.008.

Dunn, CW and GP Wagner (2006) The evolution of colony-level development in the Siphonophora (Cnidaria:Hydrozoa). Development, Genes, and Evolution. 216:743-754. http://dx.doi.org/10.1007/s00427-006-0101-8 (Cover Article).

Matus, DQ, K Pang, H Marlow, CW Dunn, GH Thomsen, and MQ Martindale (2006) Deep evolutionary roots for bilaterality in the metazoa. Proceedings of the National Academy of Sciences USA. 103:11195-11200. http://dx.doi.org/10.1073/pnas.0601257103.

Matus, DQ, RR Copley, CW Dunn, A Hejnol, H Eccleston, KM Halanych, MQ Martindale, and MJ Telford (2006) Broad Taxon and Gene Sampling Indicate that Chaetognaths Are Protostomes. Current Biology. 16:R575-R576. http://dx.doi.org/10.1016/j.cub.2006.07.017.

Dunn, CW, PR Pugh, and SHD Haddock (2005) Molecular phylogenetics of the Siphonophora (Cnidaria), with implications for the evolution of functional specialization. Systematic Biology 54:916-935. http://dx.doi.org/10.1080/10635150500354837 (Cover Article). Git repository: https://bitbucket.org/caseywdunn/siphonophores_2005.

Dunn, CW (2005) The complex colony-level organization of the deep-sea siphonophore *Bargmannia elongata* (Cnidaria, Hydrozoa) is directionally asymmetric and arises by the subdivision of pro-buds. Developmental Dynamics 234:835-845. http://dx.doi.org/10.1002/dvdy.20483 (Cover Article).

Haddock, SHD, CW Dunn, PR Pugh and CE Schnitzler (2005) Bioluminescent and red-fluorescent lures in a deep-sea siphonophore. Science 309:263. http://dx.doi.org/10.1126/science.1110441.

Dunn, CW, PR Pugh, and SHD Haddock (2005) *Marrus claudanielis*, a new species of deep-sea physonect siphonophore (Siphonophora, Physonectae). Bulletin of Marine Science 76:699-714.

Haddock, SHD, CW Dunn, and PR Pugh (2005) A reexamination of siphonophore terminology and morphology, applied to the description of two new prayine species with remarkable bio-optical properties. Journal of the Marine Biological Association of the U.K. 85:695-707. http://dx.doi.org/10.1017/S0025315405011616.

Lynch, VJ, JJ Roth, K Takahashi, CW Dunn, DF Nonaka, G Stopper and GP Wagner (2004) Adaptive evolution of HoxA-11 and HoxA-13 at the origin of the uterus in mammals. Proceedings of the Royal Society B: Biological Sciences 271:2201-2207. http://dx.doi.org/10.1098/rspb.2004.2848.

d. Non-refereed journal articles

Hejnol, A, CW Dunn (2016) Animal Evolution: Are Phyla Real? Current Biology 26:R424-R426. http://dx.doi.org/10.1016/j.cub.2016.03.058.

Dunn, CW (2014) Keeping Mates Close and Competition Out in an Ocean Sponge, November 13, 2014. http://www.nytimes.com/2014/11/13/science/keeping-mates-close-and-competition-out-in-an-ocean-sponge.html

Dunn, CW (2014) Fiery Bodies Under the Waves. New York Times, August 14, 2014. http://www.nytimes.com/2014/08/14/science/a-colonizing-fire-of-giant-plankton.html

Dunn, CW (2014) A Marine Magician's Vanishing Act. New York Times, May 28, 2014. http://www.nytimes.com/2014/05/28/science/a-marine-magicians-vanishing-act.html

Dunn, CW (2014) A Cloak of Near Invisibility in an Underwater World. New York Times, April 24, 2014. http://www.nytimes.com/2014/04/24/science/a-cloak-of-near-invisibility-in-an-underwater-world.html

Dunn, CW (2014) Two Urchins, Similar but Not. New York Times, February 26, 2014. http://www.nytimes.com/2014/02/26/science/two-urchins-similar-but-not.html

Dunn, CW (2014) Poisonous Prey Turned Into Hunter's Defense. New York Times, February 12, 2014. http://www.nytimes.com/2014/02/13/science/poisonous-prey-turned-into-hunters-defense.html

Dunn, CW (2014) Moving, Without Feet to Do So. New York Times, January 23, 2014. http://www.nytimes.com/2014/01/23/science/earth/moving-without-feet-to-do-so.html

Dunn, CW (2013) The Color of Royalty, Bestowed by Science and Snails. New York Times, October 9, 2013. http://www.nytimes.com/2013/10/09/science/the-color-of-royalty-bestowed-by-science-and-snails.html

Dunn, CW (2013) As 'Normal' as Rabbits' Weights and Dragons' Wings. New York Times, September 23, 2013. http://www.nytimes.com/2013/09/24/science/as-normal-as-rabbits-weights-and-dragons-wings.html

Dunn, CW (2013) Sex in Spoonworms. New York Times, September 16, 2013. http://www.nytimes.com/2013/09/17/science/creatures-strange-and-complex-in-colorful-detail.html (the text I wrote accompanies the video).

Dunn, CW (2013) Evolution: Out of the ocean. Current Biology 23:R242-R243. http://dx.doi.org/10.1016/j.cub.2013.01.067.

Dunn, CW (2009) Siphonophores. Current Biology 19:R233-R234. http://dx.doi.org/10.1016/j.cub.2009.02.009.

Haddock, SHD and CW Dunn (2005) The complex world of siphonophores. JMBA Global Marine Environment 2005(2):24-25.

f. Abstracts

Dunn, CW (2013) The comparative biology of gene expression. Invited speaker for the symposium "Understanding First Order Phenotypes: Transcriptomics for Emerging Models" at the 2013 meeting for the Society of Integrative and Comparative Biology. Abstract S4-2.1. http://www.sicb.org/meetings/2013/SICB%202013%20abstracts.pdf.

Helm, RR and CW Dunn (2013) The evolution of direct development in Scyphozoa. A poster presented at the 2013 meeting for the Society of Integrative and Comparative Biology. Abstract P1.58. http://www.sicb.org/meetings/2013/SICB%202013%20abstracts.pdf.

g. Invited lectures

2016	Harvard Department of Organismal and Evolutionary Biology graduate student invited speaker, University of Alabama Allele Series speaker
2016	Stanford University Abbott Lecture, Ctenopalooza (University of Florida) Keynote Speaker, University of Maryland BISI-BEES seminar student invited speaker, Blavatnik Science Symposium (New York Academy of Sciences), Yale University Department of Ecology and Evolutionary Biology, Boston Evolutionary Genomics Supergroup meeting at Harvard
2015	Gordon Research Conference, Friday Harbor Marine Laboratory, Systematics and Biodiversity Symposium at the Norwegian Academy of Sciences and Letters, University of Rhode Island
2014	Universidad Austral de Chile (Valdivia, Chile), Bowdoin College (Brunswick, Maine), University of Missouri, Evolution of First Nervous Systems II meeting (Whitney Laboratory for Marine Bioscience, Florida), 13th Annual Genome Symposium (New York University), Kyushu University (Fukuoka, Japan)
2013	American Museum of Natural History, Global Invertebrate Genomics Alliance (GIGA) workshop at Nova University (Fort Lauderdale, FL), meeting of the Centre National de Ressources Biologiques Marines, EMBRC (Villefranche, France), Brown Department of Ecology and Evolutionary Biology Seminar, Brown Computer Science Department Industrial Partners Program Symposium, Tree of Life Symposium at the 2013 meeting of the Society

	of Systematic Biologists (title: "Building trees with transcriptomes and analyzing transcriptomes with trees"), Brown EPSCoR Bioinformatics Workshop
2012	World Economic Forum Annual Meeting (Davos, Switzerland), Smithsonian Tropical Research Institute (Panama), Sars International Centre for Marine Molecular Biology (Bergen, Norway), Clark University, University of Miami, Stony Brook University, Applied Math at Brown University, University of Florida
2011	National Science Board, (Washington, DC), National Science Foundation (Washington, DC), Marine Biological Laboratory (Woods Hole, MA), Boston University (Boston, MA), Marine Observatory at Villefranche-sur-Mer (France), Smithsonian National Museum of Natural History Department of Invertebrate Zoology (Washington, DC), Smithsonian National Museum of Natural History - Symposium "Next generation Sequencing: Transformative Technology for Biodiversity Science", keynote speaker at the Brown University Communicating Your Science Workshop, Rhode Island College
2010	Harvard University, University of Gothenburg (Sweden), Iowa State University, Brown University Wayland Collegium, Helicos BioSciences, National Academy of Science "Kavli Frontiers of Science" meeting, PopTech, University of Texas at Austin
2009	Yale University, University at Buffalo, LM University Munich, meeting of the German Research Foundation Priority Program "Deep Metazoan Phylogeny" at Humboldt University Berlin, University of Connecticut, Harvard University course OEB275r: "Phylogenetics in the Era of Genomics", University of Rhode Island, Barcelona University, Brown MCB, invited speaker at the Society for Systematic Biologists symposium "Advances in Tree Reconstruction from Complex Data Matrices" in Moscow, Idaho
2008	University of Rochester, Friday Harbor Marine Laboratory, Woods Hole Oceanographic Institute, New England Biolabs
2007	Harvard University, Roger Williams University
2005	University of Hawaii

i. Work in review

This section includes publicly available preprints.

j. Patents and inventions

2016	US Patent number 9,330,295. "Spatial sequencing/gene expression camera"

5 Academic Honors

2016	Blavatnik Award for Young Scientists Finalist (`http://blavatnikawards.org/honorees/national-finalists/`)
2012	Teaching with Technology Award (Brown University)
2011	Alan T. Waterman Award (National Science Foundation)
2010	Named the Manning Assistant Professor of Ecology and Evolutionary Biology
2010	PopTech Science and Public Leadership Fellow
2010	Kavli Frontiers of Science Fellow (Sponsored by U.S. National Academy of Sciences)
2006	John Spangler Nicholas Prize (Yale University)
2000–2003	NSF Graduate Research Fellowship (National Science Foundation)
2000–2002	Sterling Fellowship (Yale University)

6 Teaching

Courses

2016 Spring	Phylogenetic Biology (Biol 1425, 13 students)
2015 Fall	Topics in Ecology and Evolutionary Biology: interacting with data (Biol 2430, 19 students). `https://bitbucket.org/caseywdunn/data_interaction`
2015 Fall	Invertebrate Zoology (Biol 0410, 37 students)
2015 Summer	Practical Computing for Biologists Workshop, Friday Harbor Labs, University of Washington
2015 Summer	Workshop on Molecular Evolution at the Marine Biological Laboratory (Woods Hole, MA)
2014 Summer	Workshop on Molecular Evolution at the Marine Biological Laboratory (Woods Hole, MA)
2013 Fall	Invertebrate Zoology (Biol 0410, 40 students)
2013 Summer	Workshop on Molecular Evolution at the Marine Biological Laboratory (Woods Hole, MA)
2013 Spring	Phylogenetic Biology (Biol 1425, 11 students)
2012 Fall	Invertebrate Zoology (Biol 0410, 37 students)
2012 Summer	Workshop on Molecular Evolution at the Marine Biological Laboratory (Woods Hole, MA); Guest lecture in: Bioinformatics: Biodiscovery By Computer at Summer@Brown (a high school summer course)
2012 Spring	EEB IGERT Course in Reverse Ecology (3 students); Guest lectures in: Analysis of Development (Biol 1310), Topics in Science Communications: Science Journalism Practicum (Biol 0950B)
2011 Fall	Invertebrate Zoology (Biol 0410, 34 students)
2011 Summer	Workshop on Molecular Evolution at the Marine Biological Laboratory (Woods Hole, MA)
2011 Spring	Practical Computing for Biologists NESCENT Academy at North Carolina State University (co-taught with Steve Haddock)
2010 Fall	Invertebrate Zoology (Biol 0410, 33 students)
2010 Spring	Origins of Multicellularity and the Evolution of Germ Line (Biol 1940Y-S01, 14 students), Directed Research/Independent Study (Biol 195, 1 students)
2009 Fall	Invertebrate Zoology (Biol 0410, 18 students), Directed Research/Independent Study (Biol 195, 2 students)
2009 Spring	Topics in Ecology and Evolutionary Biology (Biol 0244, 16 students, included field trip to Belize), Directed Research/Independent Study (Biol 195, 1 student)
2008 Fall	Topics in Ecology and Evolutionary Biology (Biol 0243, 16 students), Directed Research/Independent Study (Biol 195, 2 student)
2008 Spring	Directed Research/Independent Study (Biol 0195, 2 students)
2007 Fall	Directed Research/Independent Study (Biol 0195, 1 students)

Advising–Postdoctoral researchers

2012–2016	Felipe Zapata
2010–2011	Stephen Smith
2009–2015	Stefan Siebert

Advising–Graduate students (primary advisor)

2015–2016 Cat Luria (co-advised with Jeremy Rich)
2013–present August Guang (Applied Math, co-advised with Chip Lawrence)
2013–present Catriona Munro
2008–2015 Rebecca Helm

Advising–Graduate student thesis committee member

2016–present Aislinn Rowan (Brown University, MPP)
2015–present Christy Rhine (Brown University, MCB)
2015–present Morgan Moeglein (Brown University, EEB)
2015–present Robert Lamb (Brown University, EEB)
2015–2015 Kara Pellowe-Wagstaff (Brown University, EEB)
2013–2014 Warren Francis (University of California at Santa Cruz)
2012–2017 Tara Fresques (Brown University, MCB)
2011–2012 Dereck Stefanik (Boston University)
2011–2012 Anna Ritz (Brown University, CS)
2011–2015 Ariel Camp (Brown University, EEB)
2010–2012 Arturo Ruiz Villanueva (Institute of Ecology, Xalapa, Mexico)
2010–2015 Cat Luria (Brown University, EEB)
2009–2014 Adrian Reich (Brown University, MCB)
2009–2014 Ben Ewen-Campen (Harvard University, OEB)
2009–2011 John Cumbers (Brown University, MCB)
2009–2015 Steven Swartz (Brown University, MCB)
2009–2013 Henry Astley (Brown University, EEB)
2008–2012 Matt Ogburn (Brown University, EEB)
2007–2009 James Palardy (Brown University, EEB)

Advising–First-year graduate advisory committees (Brown)

2013–2014 Priya Nakka, Robert Lamb
2012–2013 Lillian Hancock
2011 Molecular and Cellular Biology (general)
2011–2012 Terry Dial, Chris Graves
2010–2011 Ariel Camp

Advising–Rotating graduate students

2010 Matthew Booker
2009 Steven Swartz

Advising–Undergraduate students

2013–2013	Rachel Kaplan (UTRA)
2013–2013	Hannah Kerman (EPSCoR Surf)
2012–2015	Sam Church (EPSCoR)
2012–2014	Pathikrit Bhattacharyya (EPSCoR, Royce Fellow)
2012–2014	Jessica Eason (EPSCoR)
2012–2013	Served as a freshman advisor for joint Brown/ RISD students
2012	Robert Sandler (Royce Fellow)
2012	James Weis (Thesis reader)
2011–2012	Natividad Chen (Science Center Fellow, UTRA)
2011–2012	Norian Caporale-Berkowitz (Beckman Fellow)
2011	Cecelia Bahamon (Thesis reader)
2010	Stephanie Spielman (Thesis reader)
2007–2010	Orla O'Brien (Thesis advisor)
2007–2010	Caitlin Feehery (participant on several projects)
2007–2010	Sophia Tintori (Thesis advisor)