

LUIZ A. ROCHA

Curriculum Vitae

California Academy of Sciences
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CURRENT POSITIONS

Associate Curator and Follett Chair of Ichthyology, California Academy of Sciences, 2014 – present.

Adjunct Assistant Professor, Department of Ecology and Evolution, UC Santa Cruz, 2012 – present.

Research Professor, Department of Biology, San Francisco State University, 2012 – present.

EDUCATION

Ph.D. University of Florida, Fisheries and Aquatic Sciences, 1999 – 2003.

M.Sc. Universidade Federal da Paraíba, Brazil, Zoology, with distinction, 1997 – 1999.

B.Sc. Universidade Federal da Paraíba, Brazil, Biological Sciences, 1991 – 1996.

PROFESSIONAL EXPERIENCE

2011 – 2014 Assistant Curator, California Academy of Sciences.

2008 – 2011 Assistant Professor, Marine Science Institute, University of Texas at Austin.

2006 – 2008 Assistant Researcher, Hawaii Institute of Marine Biology, University of Hawaii.

2003 – 2006 Postdoctoral Fellow, Smithsonian Tropical Research Institute, Panama City, Panama.

PEER-REVIEWED PUBLICATIONS (** indicates student or post-doc co-author)

Books

117. Kells, V.A., **L.A. Rocha** and L.G. Allen (2016) *A Field Guide to Coastal Fishes: From Alaska to California*. Johns Hopkins University Press, 376p. [Available at Amazon.com](#)

Papers

116. **Fernandez-Silva, I., J. Henderson, **L.A. Rocha**, W. Simison (2018) Whole-genome assembly of the coral reef Pearlscale Pygmy Angelfish (*Centropyge vrolikii*). *Scientific Reports*, in press.

115. **Pinheiro, H.T., **L.A. Rocha**, R.M. Macieira, A. Carvalho-Filho, A.B. Anderson, M.G. Bender, F. Di Dario, C.E.L. Ferreira, J. Figueiredo-Filho, R. Francini-Filho, J.L. Gasparini, J.-C. Joyeux, O.J. Luiz, M.M. Mincarone, R.L. Moura, J.A.C.C. Nunes, J.P. Quimbayo, R.S. Rosa, C.L.S. Sampaio, I. Sazima, T. Simon, D.A. Vila-Nova, S.R. Floeter (2018) Southwestern Atlantic reef fishes: zoogeographic patterns and ecological drivers reveal a secondary biodiversity center in the Atlantic Ocean. *Diversity and Distributions*, in press.

114. Wainwright, P.C., F. Santini, D.R. Bellwood, D.R. Robertson, **L.A. Rocha**, M.E. Alfaro (2018) Phylogenetics and geography of speciation in New World *Halichoeres* wrasses. *Molecular Phylogenetics and Evolution* 121: 35-45.

113. Alves, R.R.N., **L.A. Rocha** (2017) Fauna at Home: Animals as Pets. In: R.R.N. Alves and U.P. Albuquerque eds. *Ethnozoology: Animals in Our Lives*. Academic Press, pp. 303-321.

112. Pinto, M.F., T.P.R. Oliveira, **L.A. Rocha**, R.R.N. Alves (2017) People and Fishery Resources: A Multidimensional Approach. In: R.R.N. Alves and U.P. Albuquerque eds. *Animals in Our Lives*. Academic Press, pp. 119-149.
111. **Pinheiro, H.T., G. Bernardi, T. Simon, J.-C. Joyeux, R.M. Macieira, J.L. Gasparini, C.R. Rocha, **L.A. Rocha** (2017) Island biogeography of marine organisms. *Nature* 549(7670): 82-85. [Featured on journal cover]
110. **Rocha, L.A.**, **H.T. Pinheiro, M. Wandell, C.R. Rocha, B. Shepherd (2017) *Roa rumsfeldi*, a new butterflyfish (Teleostei: Chaetodontidae) from mesophotic coral ecosystems of the Philippines. *ZooKeys* 709: 127-134.
109. Shepherd, B., **H.T. Pinheiro, **L.A. Rocha** (2017) Ephemeral aggregation of the benthic ctenophore *Lyrocteis imperatoris* on a mesophotic coral ecosystem in the Philippines. *Bulletin of Marine Science* online early.
108. Berumen, M., J.D. DiBattista, **L.A. Rocha** (2017) Introduction to virtual issue on Red Sea and Western Indian Ocean biogeography. *Journal of Biogeography* 44(9): 1923-1926. [Invited Review]
107. Anderson, A.B., **E.M. Salas, **L.A. Rocha**, S.R. Floeter (2017) The recent colonization of south Brazil by the Azores chromis *Chromis limbata*. *Journal of Fish Biology* 91(2): 558-573.
106. **Walsh, C.A.J., **H.T. Pinheiro, **L.A. Rocha**, G. Goodbody-Gringley (2017) Cleaning service gaps in Bermuda, North Atlantic. *Ecology* 98(7): 1973-1974.
105. DiBattista, J.D., M.R. Gaither, J-P.A. Hobbs, P. Saenz-Agudelo, M.J. Piatek, B.W. Bowen, **L.A. Rocha**, J.H. Choat, J.H. McIlwain, M.A. Priest, T.H. Sinclari-Taylor, M.L. Berumen (2017) Comparative phylogeography of reef fishes from the Gulf of Aden to the Arabian Sea reveals two cryptic lineages. *Coral Reefs* 36(2): 625-638.
104. Reis, R.E., J.A. Albert, F. DiDario, M.M. Mincarone, P. Petry, **L.A. Rocha** (2017) Reply to Vitule et al. (2017): 'Fish biodiversity and conservation in South America by Reis et al. (2016)'. *Journal of Fish Biology* 90(4): 1191-1195.
103. DiBattista, J.D., M.R. Gaither, J-P.A. Hobbs, **L.A. Rocha**, B.W. Bowen (2017) Response to Delrieu-Trottin et al.: Hybrids, color variants, and the consistently devilish taxonomy of Pygmy Angelfishes. *Journal of Heredity* 108(3): 337-339.
102. Andradi-Brown, D.A., M.J.A. Vermeij, M. Slattery, M. Lesser, I. Bejarano, R. Appeldoorn, G. Goodbody-Gringley, A.D. Chequer, J.M. Pitt, C. Eddy, S.R. Smith, E. Brokovich, H.T. Pinheiro, M.E. Jessup, B. Shepherd, **L.A. Rocha**, J. Curtis-Quick, G. Eyal, T.J. Noyes, A.D. Rogers and D.A. Exton (2017) Large-scale invasion of western Atlantic mesophotic reefs by lionfish potentially undermines culling-based management. *Biological Invasions* 19(3): 939-954.
101. **Bernal, M.A., M.R. Gaither, W.B. Simison, **L.A. Rocha** (2017) Introgression and selection shaped the evolutionary history of sympatric sister-species of coral reef fishes (genus: *Haemulon*). *Molecular Ecology* 26(2): 639-652.
100. Krell, F.T., P. Klimes, **L.A. Rocha**, M. Fikacek, S.E. Miller (2016) Preserve specimens for reproducibility. *Nature* 540: 168.
99. Anderson, Jr., W.D., B.D. Greene, **L.A. Rocha** (2016) *Grammatonotus brianne*, a new callanthiid fish from Philippine waters, with short accounts of two other *Grammatonotus* from the Coral Triangle. *Zootaxa* 4173(3): 289-295.

98. DiBattista, J.D., M.R. Gaither, J-P.A. Hobbs, **L.A. Rocha**, B.W. Bowen (2016) Angelfishes, paper tigers and the devilish taxonomy of the *Centropyge flavissima* complex. *Journal of Heredity* 107(7): 647-653.
97. Morais, R.A., J. Brown, S. Bedard, C.E.L. Ferreira, S.R. Floeter, J.P. Quimbayo, **L.A. Rocha**, I Sazima (2016) Mob rulers and part-time cleaners: two reef fish associations at the isolated Ascension Island. *Journal of the Marine Biological Association of the UK*, online early.
96. Reis, R.E., J.A. Albert, F. DiDario, M.M. Mincarone, P. Petry, **L.A. Rocha** (2016) Fish biodiversity and conservation in South America. *Journal of Fish Biology* 89(1): 12-47. [Invited Review]
95. Selkoe, K.A., O.E. Gaggiotti, E.A. Treml, J.L.K. Wren, M.K. Donovan, K. Andrews, I. Baums, M.A. Bernal, G. Bernardi, C. Bird, H. Bolick, B.W. Bowen, R. Coleman, G.T. Concepcion, M.T. Craig, T.S. Daly-Engel, J.D. DiBattista, J. Eble, I. Fernandez-Silva, E.C. Franklin, A. Friedlander, M.R. Gaither, J. Gove, M. Iacchei, Y. Jia, D. Kobayashi, N.R. Polato, M.A.J. Rivera, **L.A. Rocha**, J. Reece, D. Skillings, S.R. Santos, Z. Szabo, M. Timmers, L. Wedding, G.J. Williams, N.M. Whitney, R.J. Toonen (2016) The DNA of coral reef biodiversity: predicting and protecting genetic diversity of reef assemblages. *Proceedings of the Royal Society, B* 283: 20160354.
94. DiBattista, J.D., J. Whitney, M.T. Craig, J-P.A. Hobbs, **L.A. Rocha**, K.A. Feldheim, M.L. Berumen, B.W. Bowen (2016) Surgeons and suture zones: Hybridization among four surgeonfish species in the Indo-Pacific with variable evolutionary outcomes. *Molecular Phylogenetics and Evolution* 101: 203-215.
93. Simon, T., ****H.T. Pinheiro**, R.L. Moura, A. Carvalho-Filho, **L.A. Rocha**, A. Martins, E. Mazzei, R.B. Francini-Filho, G.M. Amado-Filho, J.-C. Joyeux (2016) Fishes of the mesophotic zone of the Abrolhos Shelf, the largest reef ecosystem of the South Atlantic. *Journal of Fish Biology* 89(1): 990-1001.
92. Coleman, R.R., J.A. Eble, J.D. DiBattista, **L.A. Rocha**, J.E. Randall, M.L. Berumen, B.W. Bowen (2016) Regal phylogeography: Range-wide survey of the marine angelfish *Pygoplites diacanthus* reveals evolutionary partitions between the Red Sea, Indian Ocean, and Pacific Ocean. *Molecular Phylogenetics and Evolution* 100: 243-253.
91. Ahti, P., R.R. Coleman, J.D. DiBattista, M.L. Berumen, **L.A. Rocha**, B.W. Bowen (2016) Phylogeography of Indo-Pacific reef fishes: sister wrasses *Coris gaimard* and *C. cuvieri* in the Red Sea, Indian Ocean and Pacific Ocean. *Journal of Biogeography* 43(6): 1103-1115.
90. Waldrop, E., J.P. Hobbs, J.E. Randall, J.D. DiBattista, **L.A. Rocha**, R.K. Kosaki, M.L. Berumen, B.W. Bowen (2016) Phylogeography, population structure and evolution of coral-eating butterflyfishes (Family Chaetodontidae, genus *Chaetodon*, subgenus *Corallochaetodon*). *Journal of Biogeography* 43(6): 1116-1129.
89. ****Pinheiro**, H.T., G. Bernardi, **L. A. Rocha** (2016) *Pempheris gasparinii*, a new species of sweeper fish from Trindade Island, southwestern Atlantic (Teleostei, Pempheridae). *Zookeys* 561: 105-115.
88. ****Pinheiro**, H.T., G. Goodbody-Gringley, M. E. Jessup, B. Shepherd, A. D. Chequer and **L. A. Rocha** (2016) Upper and lower mesophotic coral reef fish communities evaluated by underwater visual censuses in two Caribbean locations. *Coral Reefs* 35(1): 139-151.
87. ****Gaither**, M.R., B.W. Bowen, **L.A. Rocha** and J.C. Briggs (2016) Fishes that rule the world: circumtropical distributions revisited. *Fish and Fisheries* 17(3): 664-679.

86. DiBattista, J., J.H. Choat, M. R. Gaither, J-P. A. Hobbs, D.F. Lozano-Cortes, R. F. Myers, G. Paulay, **L.A. Rocha**, R.J. Toonen, M.W. Westneat, and M.L. Berumen (2016) On the origin of endemic species in the Red Sea. *Journal of Biogeography* 43(1): 13-30.
85. **Pinheiro, H.T., F. DiDario, L.C. Gerhardinger, M.R.S. Melo, R.L. Moura, R.E. Reis, F. Vieira, J. Zuanon, **L.A. Rocha** (2015) Brazilian aquatic biodiversity in peril. *Science* 350(6264): 1043-1044.
84. **Fernandez-Silva, I., J.E. Randall, R.R. Coleman, J.D. DiBattista, **L.A. Rocha**, J.D. Reimer, C.G. Meyer, C.G., and B.W. Bowen (2015) Yellow tails in a Red Sea: Phylogeography of the Indo-Pacific goatfish *Mulloidichthys flavolineatus* reveals isolation in peripheral provinces and cryptic evolutionary lineages. *Journal of Biogeography* 42(12): 2402-2413.
83. DiBattista, J., E. Walldrop, **L.A. Rocha**, M.T. Craig, M.L. Berumen, and B.W. Bowen (2015) Blinded by the bright: a lack of congruence between colour morphs, phylogeography and taxonomy for a cosmopolitan Indo-Pacific butterflyfish, *Chaetodon auriga*. *Journal of Biogeography* 42: 1919-1929.
82. **Gaither, M.R., M.A. Bernal, I. Fernandez-Silva, M. Mwale, S.A. Jones, C.R. Rocha, and **L.A. Rocha** (2015) Two deep evolutionary lineages in the circumtropical glass eel *Heteropriacanthus cruentatus* (Teleostei, Priacanthidae) with admixture in the south-western Indian Ocean. *Journal of Fish Biology* 87(3): 715-727.
81. Pinheiro, M.A.A., C.B.M. Alves, H. Boos, F. DiDario, C.A. Figueiredo, F.L. Fredou, R.P.T. Lessa, M.M. Mincarone, C.N.M. Polaz, R.E. Reis, L.A. Rocha, R.A. Santos, S.B. Santos, M. Vianna and F. Vieira (2015) Conservar a fauna aquática para garantir a produção pesqueira. *Ciência e Cultura* 67(3): 56-59.
80. DiBattista, J., **L.A. Rocha**, J.P. Hobbs, H. Song, M. Priest, T. Sinclair-Taylor, B.W. Bowen, and M. Berumen (2015) When biogeographic provinces collide: hybridisation of reef fishes at the crossroads of three marine biogeographic provinces in the Arabian Sea. *Journal of Biogeography* 45(9): 1601-1614.
79. **Rocha, L.A.**, C.R. Rocha, C. Baldwin, L.A. Weigt, M. McField (2015) Invasive Lionfish preying on critically endangered reef fish. *Coral Reefs* 34(3): 803-806.
78. Ferreira, C.E.L., O.J. Luiz, S.R. Floeter, M.B. Lucena, M.C. Barbosa, C.R. Rocha and **L.A. Rocha** (2015) First record of invasive lionfish (*Pterois volitans*) in the Brazilian coast. *PLOS ONE* 10(4): e0123002.
77. **Gaither, M., M. Bernal, R. Coleman, B. Bowen, S. Jones, W.B. Simison, and **L.A. Rocha** (2015) Genomic signatures of geographic isolation and natural selection in coral reef fishes. *Molecular Ecology* 24(7): 1543-1557. [Featured on journal cover]
76. **Bernal, M.A., S.R. Floeter, M.R. Gaither, G.O. Longo, R. Morais, C.E.L. Ferreira, M.A. Vermeij and **L.A. Rocha** (2015) High prevalence of dermal parasites among coral reef fishes of Curaçao. *Marine Biodiversity Records* 46(1): 67-74.
75. Di Dario, F., C.B.M. Alves, H. Boos, F.L. Frédou, R.P.T. Lessa, M.M. Mincarone, M.A.A. Pinheiro, C.N.M. Polaz, R.E. Reis, **L.A. Rocha**, F.M. Santana, R.A. Santos, S.B. Santos, M. Vianna, F. Vieira (2015) A better way forward for Brazil's fisheries. *Science* 347: 1079.
74. **Pinheiro, H.T., E. Mazzei, R.L. Moura, G.M. Amado-Filho, A. Carvalho-Filho, A.C. Braga, P.A.S. Costa, B.P. Ferreira, C.E.L. Ferreira, S.R. Floeter, R.B. Francini-Filho, J.L. Gasparini, R.M. Macieira, A.S. Martins, G. Olavo, C.R. Pimentel, **L.A. Rocha**, I. Sazima, T. Simon, J.B. Teixeira, L.B. Xavier, J.-C. Joyeux (2015) Fish biodiversity of the Vitória-Trindade Seamount Chain, southwestern Atlantic: an updated database. *PLOS ONE* 10(3): e0118180.

73. **Bernal, M.A., N.L. Sinai, C.R. Rocha, M.R. Gaither, F. Dunker and **L.A. Rocha** (2015) Long-term sperm storage in the Brownbanded Bamboo Shark *Chiloscyllium punctatum*. *Journal of Fish Biology* 86(3): 1171-1176.
72. **Ludt, W., **L.A. Rocha**, M.V. Erdmann, P. Chackrabarty (2015) Skipping across the tropics: the evolutionary history of sawtail surgeonfishes (Acanthuridae: *Prionurus*). *Molecular Phylogenetics and Evolution* 84: 166-172.
71. **Ludt, W.B. and **L. A. Rocha** (2015) Shifting Seas: the impacts of Pleistocene sea level fluctuations on the evolution of tropical marine taxa. *Journal of Biogeography* 42: 25-38.
70. **Rocha, L. A.**, et al. (2014) Specimen collection: An essential tool. *Science* 344: 814-815.
69. Selkoe, K. A., O. E. Gaggiotti, K. Andrews, M. A. Bernal, C. Bird, H. Bolick, I. Baums, R. Coleman, G. T. Concepcion, M. T. Craig, J. D. DiBattista, J. Eble, I. Fernandez-Silva, M. R. Gaither, M. Iacchei, N. R. Polato, M. A. Rivera, **L. A. Rocha**, D. Skillings, M. Timmers, Z. Szabo, B. W. Bowen, R. J. Toonen (2014) Emergent patterns of population genetic structure for a coral reef community. *Molecular Ecology* 23: 3064-3079.
68. Costa, T. J. F., H. T. Pinheiro, J. B. Teixeira, E. F. Mazzei, L. Bueno, M. Hora, J-C. Joyeux, A. Carvalho-Filho, G. amado-Filho, C. L. S. Sampaio, **L. A. Rocha** (2014) Expansion of an invasive coral species over Abrolhos Bank, Southwestern Atlantic. *Marine Pollution Bulletin* 85: 252-253.
67. **Gaither, M., J. K. Schultuz, D. R. Bellwood, R. L. Pyle, J. D. DiBattista, **L. A. Rocha** and B. W. Bowen (2014) Evolution of pygmy angelfishes: recent divergences, introgression, and the usefulness of color in taxonomy. *Molecular Phylogenetics and Evolution* 74: 38-47.
66. Szabó, Z., B. Snelgrove, M. T. Craig, **L. A. Rocha** and B. W. Bowen (2014) Phylogeography of the Manybar Goatfish, *Parupeneus multifasciatus*, reveals isolation of the Hawaiian archipelago and a cryptic endemic lineage in the Marquesas. *Bulletin of Marine Science* 90(1): 493-512.
65. Bowen, B. W., K. Shanker, N. Yasuda, M. C. Malay, S. von der Heyden, G. Paulay, **L. A. Rocha**, K. A. Selkoe, P. H. Barber, S. T. Williams, H. A. Lessios, E. D. Crandall, G. Bernardi, C. P. Meyer, K. E. Carpenter and R. J. Toonen (2014) Phylogeography Unplugged: Comparative geographic surveys in the genomic era. *Bulletin of Marine Science* 90(1): 13-46.
64. **Gaither, M. and **L. A. Rocha** (2013) Origins of species richness in the Indo-Malay-Philippine biodiversity hotspot: evidence for the Centre of Overlap hypothesis. *Journal of Biogeography* 40(9): 1638-1648. [Invited Review]
63. Luiz, O. J., S. R. Floeter, **L. A. Rocha** and C. E. L. Ferreira (2013) Perspectives for the lionfish invasion in the South Atlantic: Are Brazilian reefs protected by the currents? *Marine Ecology Progress Series* 485: 1-7. [Feature Article]
62. Bowen, B. W., **L. A. Rocha**, R. J. Toonen, S. A. Karl, M. T. Craig, J. D. DiBattista, J. A. Eble, M. R. Gaither, D. Skillings, C. J. Bird (2013) The origins of tropical marine biodiversity. *Trends in Ecology and Evolution* 28(6): 359-366. [Invited Review featured on the cover]
61. DiBattista, J. D., M. Berumen, M. Gaither, **L. A. Rocha**, J. H. Choat, D. J. Skillings, B. W. Bowen (2013) After continents divide: Comparative phylogeography of reef fishes from the Red Sea and Indian Ocean. *Journal of Biogeography* 40(6): 1170-1181.
60. **Rocha, L. A.**, Bernal, M. A., Gaither, M. R. and M. E. Alfaro (2013) Massively parallel DNA sequencing: the new frontier in biogeography. *Frontiers in Biogeography* 5(1): 67-77. [Invited Review]

59. de Mitcheson, Y. S., M. T. Craig, A. A. Bertoni, A. Cabanban, K. E. Carpenter, W. Cheung, J. H. Choat, A. S. Cornish, S. T. Fennessy, B. P. Ferreira, P. C. Heemstra, M. Liu, R. F. Myers, D. A. Pollard, K. L. Rhodes, **L. A. Rocha**, B. Russel, M. A. Samoilys and J. Sanciangco (2013) Fishing groupers towards extinction: A global assessment of threats and extinction risks in a billion dollar fishery. *Fish and Fisheries* 14: 119-136.
58. Quimbayo, J. P., S. R. Floeter, R. Noguchi, C. A. Rangel, J. L. Gasparini, C. L. S. Sampaio, C. E. Ferreira, **L. A. Rocha** (2012) Cleaning mutualism in Santa Luzia (Cape Verde Archipelago) and São Tomé Islands, Tropical Eastern Atlantic. *Marine Biodiversity Records* 5: e118.
57. Harborne, H., H. Jelks, W. F. Smith-Vaniz and **L. A. Rocha** (2012) Abiotic and biotic controls of cryptobenthic fish assemblages across a Caribbean seascape. *Coral Reefs* 31: 977-990.
56. DiBattista, J. D., **L. A. Rocha**, M. T. Craig, K. A. Feldheim and B. W. Bowen (2012) Phylogeography of two closely related Indo-Pacific butterflyfish reveal divergent evolutionary histories and discordant results from mtDNA and microsatellites. *Journal of Heredity* 103(5): 617-629.
55. Comeros-Raynal, M.T., J. H. Choat, B. E. Polidoro, K. D. Clements, R. Abesamis, A. Candido, E. Capuli, S. Conales Jr., M. T. Craig, M. E. Lazuardi, J. McIlwain, A. Muljadi, R. F. Myers, C. Nañola Jr, S. Pardede, P. Rahardjo, **L. A. Rocha**, B. Russell, J. C. Sanciangco, B. Stockwell, H. Harwell and K. E. Carpenter (2012) The likelihood of extinction of iconic and dominant components of coral reefs: the parrotfishes and surgeonfishes. *PLoS ONE* 7(7): e39825.
54. **L. A. Rocha**, M. Bernal, B. W. Bowen and **L. A. Rocha** (2012) Living in the past: Phylogeography and population histories of Indo-Pacific Wrasses (Genus *Halichoeres*) in shallow lagoons versus outer reef slopes. *PLoS ONE* 7(6): e38042.
53. DiBattista, J. D., E. Waldrop, B. W. Bowen, J. K. Schultz, M. Gaither and **L. A. Rocha** (2012) Twisted sister species of Pygmy Angelfishes: Discordance between taxonomy, coloration, and phylogenetics. *Coral Reefs* 31: 839-851.
52. Luiz, O. J., J. S. Madin, D. R. Robertson, **L. A. Rocha**, P. Wirtz and S. R. Floeter (2012) Ecological traits influencing range expansion across large oceanic dispersal barriers: insights from tropical Atlantic reef fishes. *Proceedings of the Royal Society, B* 279: 1033-1040.
51. **L. A. Rocha**, Ross, R. and G. Korp (2012) Opportunistic mimicry by a Jawfish. *Coral Reefs* 31: 285.
50. **L. A. Rocha**, Brito, A. and D. R. Robertson (2012) *Sparisoma choati*, a new species of Parrotfish (Labridae: Scarinae) from the tropical eastern Atlantic. *Zootaxa* 3152: 61-67.
49. Gaither, M. R., B. W. Bowen, T. R. Bordenave, **L. A. Rocha**, S. J. Newman, J. A. Gomez, L. van Herwerden, L. and M. T. Craig (2011) Phylogeography of the reef fish *Cephalopholis argus* (Epinephelidae) indicates Pleistocene isolation across the Indo-Pacific Barrier with contemporary overlap in the Coral Triangle. *BMC Evolutionary Biology* 2011, 11: 189.
48. Sanciangco, M. D., **L. A. Rocha** and K. E. Carpenter (2011) A molecular phylogeny of the Grunts (Perciformes: Haemulidae) inferred using mitochondrial and nuclear genes. *Zootaxa* 2966: 37-50.
47. **L. A. Rocha**, M. Bernal and **L. A. Rocha** (2011) *Acanthurus tractus* Poey, 1860, a valid western Atlantic species of surgeonfish (Teleostei, Acanthuridae), distinct from *Acanthurus bahianus* Castelnau, 1855. *Zootaxa* 2905: 63-68.
46. DiBattista, J.D., C. Wilcox, M.T. Craig, **L.A. Rocha**, and B.W. Bowen (2010) Phylogeographic survey of the Pacific surgeonfish, *Acanthurus nigroris*, reveals high connectivity and a cryptic endemic species in the Hawaiian Archipelago. *Journal of Marine Biology* 2010: 1-17; Article ID 839134.

45. Eble, J.A., **L.A. Rocha**, M.T. Craig, and B.W. Bowen (2010) Not all larvae stay close to home: Insights into marine population connectivity with a focus on the Brown Surgeonfish (*Acanthurus nigrofuscus*). *Journal of Marine Biology* 2010: 1-12; Article ID 518516.
44. **Rocha, L.A.**, H.T. Pinheiro and J.L. Gasparini (2010) Description of *Halichoeres rubrovirens*, a new species of wrasse (Labridae: Perciformes) from the Trindade and Martin Vaz Island group, southeastern Brazil, with a preliminary mtDNA molecular phylogeny of New World *Halichoeres*. *Zootaxa* 2422: 22-30.
43. Randall, J. E. and **L. A. Rocha** (2009) *Halichoeres claudia* sp. nov., a new Indo-Pacific wrasse (Perciformes: Labridae), the fourth species of the *H. ornatissimus* complex. *Zoological Studies* 48(5): 709-718.
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41. Luiz Jr., O. J., C. E. L. Ferreira and **L. A. Rocha** (2009) *Halichoeres sazimai*, a new species of wrasse (Perciformes: Labridae) from the Western South Atlantic. *Zootaxa* 2092: 37-46.
40. Lobel, P. L., **L. A. Rocha** and J. E. Randall (2009) The color phases and distribution of the western Atlantic labrid fish, *Halichoeres socialis*. *Copeia* 2009(1): 171-174.
39. **Rocha, L. A.** and B. W. Bowen (2008) Speciation in coral reef fishes. *Journal of Fish Biology* 72(5): 1101-1121. [Invited Review]
38. **Rocha, L. A.**, K. C. Lindeman, C. R. Rocha and H. A. Lessios (2008) Historical biogeography and speciation in the reef fish genus *Haemulon* (Teleostei: Haemulidae). *Molecular Phylogenetics and Evolution* 48: 918-928.
37. Randall, J. E., J. T. Williams and **L. A. Rocha** (2008) The Indo-Pacific tetraodontid fish *Canthigaster coronata*, a complex of three species. *Smithiana* 9: 3-13.
36. **Rocha, L. A.**, C. R. Rocha, D. R. Robertson and B. W. Bowen (2008) Comparative phylogeography of Atlantic reef fishes indicates both origin and accumulation of diversity in the Caribbean. *BMC Evolutionary Biology* 8: 157.
35. Randall, J. E., J. L. Earle and **L. A. Rocha**. (2008) *Xyrichtys pastellus*, a new razorfish from the southwest Pacific, with discussion of the related *X. sciistius* and *X. woodi. aqua*, *Journal of Ichthyology* 14(3): 149-158.
34. Floeter, S. R., **L. A. Rocha**, D. R. Robertson, J. C. Joyeux, W. S. Smith-Vaniz, P. Wirtz, A. J. Edwards, J. P. Barreiros, C. E. L. Ferreira, J. L. Gasparini, A. Brito, J. M. Falcon, B. W. Bowen and G. Bernardi (2008) Atlantic reef fish biogeography and evolution. *Journal of Biogeography*. 35: 22-47.
33. **Rocha, L. A.**, M. T. Craig and B. W. Bowen (2007) Phylogeography and the conservation of coral reef fishes. *Coral Reefs* 26(3): 501-512. [Invited Review]
32. Weaver, D. and **L. A. Rocha** (2007) A new *Halichoeres* (Labridae) from the Western Gulf of Mexico. *Copeia* 2007(4): 798-897.
31. Wirtz, P., C. E. L. Ferreira, S. R. Floeter, R. Fricke, J. L. Gasparini, T. Iwamoto, **L. A. Rocha**, C. L. Sampaio and U. Schliewen (2007) Coastal Fishes of São Tomé and Príncipe – an update. *Zootaxa* 1523: 1-48.
30. Bowen, B. W., A. Muss, **L. A. Rocha** and W. S. Grant (2006) Shallow mtDNA coalescence in Atlantic pygmy angelfish (genus *Centropyge*) indicates a recent invasion from the Indian Ocean. *Journal of Heredity* 97(1): 1-12. [Featured on journal cover]

29. Smith-Vaniz, W. F., H. L. Jelks and **L. A. Rocha** (2006) Relevance of cryptic fishes in biodiversity assessments: a case study at Buck Island Reef National Monument, St. Croix, U.S. Virgin Islands. *Bulletin of Marine Science* 79(1): 17-48.
28. **Rocha, L. A.**, D. R. Robertson, J. Roman and B. W. Bowen (2005) Ecological speciation in tropical reef fishes. *Proceedings of the Royal Society, B* 272: 573-579. [Featured on journal cover]
27. **Rocha, L. A.**, D. R. Robertson, C. R. Rocha, J. L. Van Tassell, M. Craig and B. W. Bowen (2005) Recent invasion of the tropical Atlantic by an Indo-Pacific coral reef fish. *Molecular Ecology* 14: 3921-3928. [Fast-Track]
26. Feitoza, B. M., R. S. Rosa and **L. A. Rocha** (2005) Ecology and zoogeography of deep reef fishes in northeastern Brazil. *Bulletin of Marine Science* 76: 725-742.
25. **Rocha, L. A.** (2004) Mitochondrial DNA and color pattern variation in three western Atlantic *Halichoeres* (Labridae), with the revalidation of two species. *Copeia* 2004(4): 770-782.
24. Guimarães, R. Z. P., J. L. Gasparini and **L. A. Rocha** (2004) A new cleaner goby of the genus *Elacatinus* (Teleostei: Gobiidae) from Trindade Island, off Brazil. *Zootaxa* 770: 1-8.
23. **Rocha, L. A.** (2003) Patterns of distribution and processes of speciation in Brazilian reef fishes. *Journal of Biogeography* 30(8): 1161-1171.
22. Feitoza, B. M., **L. A. Rocha**, O. J. Luiz-Junior, S. R. Floeter and J. L. Gasparini (2003) Reef fishes of St. Paul's Rocks: new records and notes on biology and zoogeography. *Aqua, Journal of Ichthyology* 7(2): 61-82.
21. Ramos, R. T. C., C. Rocha and **L. A. Rocha** (2003) New species of *Emblemaria* (Teleostei: Chaenopsidae) from Northern Brazil. *Copeia* 2003(1): 95-98.
20. **Rocha, L. A.**, A. L. Bass, D. R. Robertson and B. W. Bowen (2002) Adult habitat preferences, larval dispersal and the comparative phylogeography of three Atlantic *Acanthurus* (Teleostei: Acanthuridae). *Molecular Ecology* 11(2): 243-252.
19. Feitoza, B. M., **L. A. Rocha**, J. L. Gasparini and T. L. Dias (2002) First record of cleaning activity in the slippery dick, *Halichoeres bivittatus* (Perciformes: Labridae) off northeastern Brazil. *Aqua, Journal of Ichthyology* 5(2): 73-76.
18. Bowen, B. W., A. L. Bass, **L. A. Rocha**, W. S. Grant and D. R. Robertson (2001) Phylogeography of the trumpetfish (*Aulostomus*): Ring species complex on a global scale? *Evolution* 55(5): 1029-1039.
17. **Rocha, L. A.** and I. L. Rosa (2001) Baseline assessment of reef fish assemblages of Parcel Manuel Luiz Marine State Park, Maranhão, north-east Brazil. *Journal of Fish Biology* 58: 985-998.
16. **Rocha, L. A.** and R. S. Rosa (2001) *Halichoeres brasiliensis* (Bloch, 1791), a valid wrasse species (Teleostei: Labridae) from Brazil, with notes on the Caribbean species *Halichoeres radiatus* (Linnaeus, 1758). *Aqua, Journal of Ichthyology* 4(4): 161-166.
15. **Rocha, L. A.**, Guimaraes, R. Z. and J. L. Gasparini (2001) Redescription of the Brazilian wrasse *Thalassoma noronhanum* (Boulenger, 1890) (Teleostei: Labridae). *Aqua, Journal of Ichthyology* 4(3): 105-108.
14. Floeter, S. R., R. Z. P. Guimarães, **L. A. Rocha**, C. E. L. Ferreira, C. A. Rangel and J. L. Gasparini (2001) Geographic variation in reef-fish assemblages along the Brazilian coast. *Global Ecology and Biogeography* 10(4): 423-432.

13. Gasparini, J. L., **L. A. Rocha** and S. R. Floeter (2001) A new *Ptereleotris* (TELEOSTEI: MICRODESMIDAE) from the Brazilian coast. *Aqua, Journal of Ichthyology* 4(3): 109-114.
12. Guimarães, R. Z., J. L. Gasparini, C. E. Ferreira, **L. A. Rocha**, S. R. Floeter, C. A. Rangel and G. W. Nunan (2001) Brazilian reef fishes: threatened and unknown richness. *Ciencia Hoje* 28(168): 16-23. [Featured on journal cover] [In Portuguese]
11. **Rocha, L. A.**, I. L. Rosa and B. M. Feitoza (2000) Sponge dwelling fishes of northeastern Brazil. *Environmental Biology of Fishes* 59(4): 453-458.
10. **Rocha, L. A.** (2000) Aggressive behavior of male Spanish hogfish (*Bodianus rufus*), in northeastern Brazil. *Coral Reefs* 19: 184.
9. **Rocha, L. A.** and I. L. Rosa (1999) New Species of *Haemulon* (TELEOSTEI: HAEMULIDAE) from the Northeastern Brazilian Coast. *Copeia* 1999: 447-452.
8. **Rocha, L. A.**, I. L. Rosa and R. S. Rosa (1998) Reef fishes from the coast of Paraíba, Brazil. *Revista Brasileira de Zoologia* 15: 553-566. [In Portuguese, with abstract in English]
7. Rosa, R. S., I. L. Rosa and **L. A. Rocha** (1997) Diversity of the tide pool ichthyofauna from Cabo Branco Beach, João Pessoa, Paraíba, Brazil. *Revista Brasileira de Zoologia* 14: 201-212. [In Portuguese, with abstract in English]

Book Reviews

6. **Rocha, L. A.** (2013) Review of Reef Fishes of the East Indies, Volumes I-III, Gerald R. Allen and Mark V. Erdmann, 2012. *Copeia* 2013(3): 567-568.
5. **Rocha, L. A.** (2012) Review of Groupers of the World: A Field and Market Guide, M. T. Craig, Y. S. de Mitcheson and P. C. Heemstra, 2011. *Copeia* 2012(4): 767-768.

Invited Book Chapters

4. Sampaio, C. L. S., Carvalho-Filho, A., Feitoza, B. M., Ferreira, C. E. L., Floeter, S. R., Gasparini, J. L., **Rocha, L. A.** and Sazima, I. (2006) Threatened and endemic reef fishes from the Brazilian oceanic islands and the Abrolhos reef complex. In: R. J. V. Alves and J. W. A. Castro eds. *Ilhas Oceânicas Brasileiras – Da Pesquisa ao Manejo*. Brasília, MMA, SBF, pp. 217-234. [in Portuguese]
3. **Rocha, L. A.** (2006) Family Acanthuridae. In: Carpenter, K.E. ed. *FAO Species Identification Guide for Fishery Purposes. The Living Marine Resources of the Eastern Central Atlantic*. Food and Agriculture Organization of the United Nations, Rome, Italy. In press.
2. **Rocha, L. A.** (2006) Family Cirrhitidae. In: Carpenter, K.E. ed. *FAO Species Identification Guide for Fishery Purposes. The Living Marine Resources of the Eastern Central Atlantic*. Food and Agriculture Organization of the United Nations, Rome, Italy. In press.
1. **Rocha, L. A.** (2002) Brazilian Reef Fishes. In: Humann, P and N. Deloach eds. *Reef Fish Identification*, 3rd edn. New World Publications, Jacksonville, pp. 462-479.

RESEARCH GRANTS, FELLOWSHIPS AND HONORS

- 2017 “Digitization TCN: Collaborative Research: oVert: Open Exploration of Vertebrate Diversity in 3D” **National Science Foundation**, with PI David Blackburn and 12 other Co-PIs (US\$ 2,500,000 for four years, US\$ 136,995 for CAS)
- 2016 “Research, exploration and restoration of shallow and mesophotic coral reefs” **William K. Bowes, Jr. Foundation**; with co-PI Bart Shepherd (\$8,500,000 for five years)

- 2014 Elected Fellow of the California Academy of Sciences
- 2014 “Hybridization and speciation in the suture zone of Socotra Island, western Indian Ocean” **National Geographic Society**; with co-PIs Joseph DiBattista, Michael Berumen and Jean-Paul Hobbs (US\$ 24,200 for one year)
- 2014 “Western Indian Ocean biogeography workshop” **King Abdullah University of Science and Technology**; with PI Michael Berumen and Co-PI Joseph DiBattista (US\$ 99,000 for one year)
- 2013 “Collaborative Research: Documentation of Diversity in the Apex of the Coral Triangle: Inventory of Philippine Marine Biodiversity” **National Science Foundation**; with PI Terry Gosliner, and co-PIs Kent Carpenter, Rich Mooi and Gary Williams (US\$ 699,367 for three years)
- 2012 “Biodiversity in the Saudi Arabian Red Sea” **KAUST Office of Competitive Research Funds**; with PI Michael Berumen and co-PIs Brian Bowen, Howard Choat and Andrew Baird (US\$ 1,388,000 for three years)
- 2012 “Biogeography and evolution of Red Sea reef fishes” **National Geographic Society**; with PI Joseph DiBattista and co-PI Brian Bowen (US\$ 24,000 for one year)
- 2011 “Collaborative Proposal: CSBR: Natural History Collections: Georeferencing U.S. Fish Collections: a community-based model to georeferencing natural history collections” **National Science Foundation**, with PI Hank Bart and 8 other Co-PIs (US\$ 1,348,000 for three years, US\$ 138,365 for CAS)
- 2011 “Connectivity of the Pulley Ridge - South Florida Coral Reef Ecosystem: Processes to Decision-Support Tools” **National Oceanographic and Atmospheric Administration**; with PI Robert Cowen and 28 Co-PIs (US\$ 5,000,000 for five years, US\$ 162,000 for CAS)
- 2009 “Coral reef fish mimicry” **University of Texas** Summer Research Assistantship (US\$ 30,000 for one summer)
- 2007 “The Cocos-Keeling connection: Exploring connectivity among Indian Ocean and Pacific Ocean reef fishes” **National Geographic Society**; with PI Matthew Craig (US\$ 16,200 for one year)
- 2006 “Connectivity among reef fish populations at southeastern Brazilian islands: an ecological and population genetic approach” **CNPq, Brazilian Ministry of Science and Technology**; with PI Sergio Floeter (US\$ 27,000 for one year)
- 2006 “Marine population connectivity at St. Paul’s Rocks, central Atlantic Ocean” **CNPq, Brazilian Ministry of Science and Technology**; with PI Carlos E. L. Ferreira (US\$ 23,000 for one year)
- 2005 “Phylogeography of Indo-Pacific Reef Fishes” **National Science Foundation**; with P.I. Brian Bowen and Co-PIs Stephen Karl, Richard Pyle, Jack Randall, Ross Robertson and Rob Toonen (US\$ 510,000 for three years)
- 2005 “The evolution and ecology of fish assemblages in a poorly known eastern Atlantic biodiversity hotspot” **National Geographic Society**; with Co-PI Sergio Floeter (US\$ 20,960 for one year)
- 2004 “Revisiting connectivity among coral reef fish populations: are abrupt discontinuities in ranges due to self-recruitment or ecological constraints?” **National Geographic Society**; sole P.I. (US\$ 15,000 for one year)
- 2003 **Post-Doctoral Fellowship**, Smithsonian Institution Marine Science Network (US\$ 80,000 for two years)
- 2003 **Post-Doctoral Fellowship**, Smithsonian Institution (US\$ 35,000 for one year; awarded but declined to receive Marine Science Network fellowship)
- 2002 **PADI Project Aware** research grant (US\$ 2,500)
- 1997 **Graduate Student Scholarship**, Brazilian Ministry of Education (US\$ 12,000 for two years)

ACADEMIC EXPERIENCE

Editorial and Society Service

Editor in Chief of Systematics and Molecular Biology, *Neotropical Ichthyology*, 2014 – present.

Associate Editor, *Scientific Reports*, 2015 – present.

Associate Editor, *Journal of Biogeography*, 2010 – present.

Associate Editor, *Neotropical Ichthyology*, 2013 – 2014.

Scientific Committee, 2nd Intl. Symp. Phylogeny and Classification Neotrop. Fishes, 2017 – present.

International Steering Committee, Indo-Pacific Fish Conference, 2013 – present.

ASIH Board of Governors, 2012 – present.

ASIH representative to the Society for the Preservation of Natural History Collections, 2012 – present.

Judge for best Student Poster, American Society of Ichthyologists and Herpetologists, 2014.

Judge for best Student Poster, Society of Integrative and Comparative Biology, 2011.

Associate Editor, *Zootaxa*, 2006 – 2009.

Editorial Board, 17th Brazilian Ichthyology Meeting, 2006 – 2007.

Manuscript reviews for:

Annals of the Brazilian Academy of Sciences, Animal Behaviour, Animal Biology, Aquatic Living Resources, Biological Conservation, Biology Letters, Biota Neotropica, BMC Evolutionary Biology, Brazilian Journal of Biology, Bulletin of Marine Science, Caribbean Journal of Science, CheckList, Copeia, Conservation Biology, Conservation Genetics, Coral Reefs, Cybium, Current Biology, Diversity and Distributions, Environmental Biology of Fishes, Evolution, Evolutionary Biology, Evolutionary Ecology, Fisheries Research, Fishery Bulletin, Food and Agriculture Organization of the United Nations, Gene, Genetica, Genetics and Molecular Biology, Helgoland Marine Research, Hydrobiologia, Ichthyological Research, International Journal of Molecular Sciences, Journal of Biogeography, Journal of Experimental Marine Biology, Journal of Fish Biology, Journal of Heredity, Journal of Marine Biology, Journal of the Marine Biological Association, Genetics and Molecular Biology, Global Change Biology, Marine Biology, Marine Ecology, Marine Ecology Progress Series, Marine and Freshwater Research, Molecular Biology and Evolution, Molecular Biology Reports, Molecular Ecology, Molecular Phylogenetics and Evolution, Nature Ecology and Evolution, Neotropical Ichthyology, Oecologia, The Open Fish Science Journal, Pacific Science, PLoS Biology, PLoS One, Proceedings of the Meeting of the Association of Caribbean Marine Labs, Proceedings of the Royal Society of London B, Scientific Reports, Spixiana, Reviews in Fish Biology and Fisheries, Transactions of the American Philosophical Society, Zoological Journal of the Linnean Society, Zookeys, Zootaxa.

Grant reviews for:

National Science Foundation – Biological Oceanography, Evolutionary Processes, Phylogenetic Systematics, Biodiversity Inventories, Partnerships for International Research and Education, Dimensions of Biodiversity
National Geographic Society
National Marine Fisheries Service
The Royal Society of New Zealand
National Research Foundation of South Africa

Panel participation:

NSF Systematic Biology and Biodiversity Inventories – Spring 2012

Book proposal review for *Princeton University Press*

Courses Taught

- Reef Fish Ecology and Evolution, 4 credits undergraduate level course with 11 students, Bermuda Institute of Ocean Sciences, Bermuda, July 2015.
- Reef Fish Ecology and Evolution, 8 hours undergraduate level course with 50 students, Brazilian Ichthyology Conference, Recife, Brazil, February 2015.
- Reef Fish Ecology and Evolution, 3 credits course with 30 students, Universidade Federal de Pernambuco, Tamandare, Brazil, January 2015.
- Reef Fish Ecology and Evolution, 8 hours undergraduate level course with 30 students, Universidade Estadual de Maringá, Brazil, January 2013.
- MNS s354c, Biology of Fishes, 3 credits course with 18 students, University of Texas, Summer 2011.
- MNS 307, Introduction to Oceanography, 4 credits course with 210 students, University of Texas, Spring 2009, 2010, 2011.
- MNS 398T, Teaching Methods for Graduate Students, 3 credits course with 9 students, University of Texas, Fall 2009.
- MNS 152T, Estuarine and Tropical Marine Fish Ecology, 2 credits course with 17 students, University of Texas, Summer 2009.
- Biogeography and Evolution, 10 hours graduate level course with 28 students, Universidade Federal da Paraíba, João Pessoa, Brazil, August 2007.
- Introduction to Fish Phylogeography, 9 hours undergraduate level course with 30 students, UNISINOS University, Itajaí, Brazil, January 2007.

Student and Post-doc Supervision

<u>Post-docs</u>	<u>Years</u>	<u>Current Institution</u>
Alison Gould	2018-present	California Academy of Sciences
Stuart Willis	2017-present	California Academy of Sciences
Hudson Pinheiro	2016-present	California Academy of Sciences
Iria Fernandez	2013-2017	University of Vigo
Francisco Lazzarotto	2015-2016	Universidade de São Paulo
Min-Ki Oh	2014-2016	Osaka University
Pius Oben	2012-2013	University of Buea, Cameroon
Michelle Gaither	2011-2013	University of Durham
<u>Current Students</u>	<u>Degree/Year</u>	<u>Institution</u>
Cerise Chen	Ph.D.	University of California Santa Cruz
<u>Concluded Supervisions</u>		
Eva M. Salas	Ph.D. /2016	University of California Santa Cruz
Hudson Pinheiro	Ph.D./2016	University of California Santa Cruz
Moises Bernal	Ph.D./2015	University of Texas Austin
William B. Ludt	M.Sc./2011	University of Texas Austin
<u>Committee Member</u>		
Abril Iñiguez	Ph.D.	University of California Los Angeles
Colbi Brown	M.Sc./2010	University of Texas Austin

Megan Fencil	Ph.D./2009	University of Texas Austin
<u>External Thesis Reader</u>		
Jennifer Hodge	Ph.D./2014	James Cook University
Martin van der Meer	Ph.D./2013	James Cook University
Steen Knudsen	Ph.D./2013	University of Auckland
Rebecca Lawton	Ph.D./2012	James Cook University
Peter Cowman	Ph.D./2011	James Cook University
John Horne	Ph.D./2011	James Cook University

Undergraduate Research Supervision

Eric Witte (University of California, Berkeley), Summer 2017
 Maya Munsterman (University of Connecticut), NSF-REU intern, Summer 2016
 Gabriela Blanca Arango (Santa Rosa Community College), NSF-REU intern, Summer 2014
 Sarah Friedman (University of Washington), NSF-REU intern, Summer 2013
 Eileen Nalley (University of California, Berkeley), volunteer, 2011-2012
 Emilie Stump (Old Dominion University), NSF-REU intern, Summer 2012
 Winston Anthony (University of Massachusetts), NSF-REU intern, Summer 2011
 Melinda Martinez (UT Austin), undergraduate research for credit, Summer 2011
 Andrew Thompson (Clarion University), NSF-REU intern, Summer 2009
 Arely Silva (UT Austin), undergraduate research for credit, Summer 2009

Guest Lectures

2014 Genomics in fish biology. Elasmobranch Genomics Workshop, Chattanooga, TN.
 2014 Evolution and conservation of reef fishes. Fromm Lecture, University of San Francisco.
 2013 Marine speciation. Marine Botany Maymester course, University of Texas.
 2012 Coral reef fish diversity. Pritzker Lecture, CalAcademy, San Francisco.
 2011 Marine speciation. Marine Botany Maymester course, University of Texas.
 2010 Coral reef fish diversity. UTMSI Public Lecture Series.
 2010 Coral reef fish evolution. UT SAGE, Seminars for Adult Growth and Enrichment.
 2009 Marine fish phylogeography. Universidade Federal de São Carlos, São Paulo, Brazil.
 2008 Marine speciation. Marine Science Seminar course, University of Texas.
 2007 Marine conservation. Conservation Genetics course, University of Hawaii.
 2006 Speciation in reef fishes. Speciation Seminar course, University of Hawaii.
 2004 Coral reef fish ecology. Tropical Ecology field course, STRI/OTS.
 2002 Reef fish diversity and evolution. Ichthyology, University of Florida.

Advisory Positions

Advisor for University of Sao Paulo, evaluated CEBIMAR (school of marine biology). 2015.
 IUCN Species Survival Commission, Reef Fish Specialist. 2001 – present.
 17th Brazilian Ichthyology Meeting, Scientific Advisor. 2006 – 2007.
 Food and Agriculture Organization of the United Nations, Consultant. 2003 – 2006.

Symposium Organization

Organized a workshop on “Reef Fish Ecology and Evolution” during the 21st Brazilian Ichthyology Meeting, Recife, Brazil, February 2015.
 Co-organized a workshop on “Biogeography of the western Indian Ocean” at King Abdullah University, Jeddah, Saudi Arabia, February 2014.
 Organized a session on “Phylogenetics, phylogeography and genomics of fishes” during the 9th Indo-Pacific Fish Conference, Okinawa, Japan, June 2013.

Organized a mini-symposium on “Evolution, biogeography and taxonomy of Brazilian marine fishes” during the 20th Brazilian Ichthyology Meeting, Maringa, Brazil, February 2013.

Organized a session on “Phylogenetics and phylogeography of coral reef fishes” during the 8th Indo-Pacific Fish Conference, Perth, Australia, May 2009.

Organized a mini-symposium on “Conservation Genetics and Phylogeography of Fishes” during the 17th Brazilian Ichthyology Meeting, Itajaí, Brazil, January 2007.

Organized a mini-symposium on “Ecology, Biology and Biogeography of Brazilian Reef Fishes” during the 14th Brazilian Ichthyology Meeting, São Leopoldo, Brazil, January 2001.

Institutional Activities

Coral Reefs Planetarium Show lead science advisor, CAS, 2016 – present.

Co-Chair of the Scuba Diving Control Board, CAS, 2015 – present.

Co-Chair, Biodiversity Science Council, California Academy of Sciences, 2015 – 2017.

“Twilight Zone: Deep Reefs Revealed” lead science advisor, CAS, 2014 – 2016.

Cluster Hire Search Committee, CAS, 2015 – 2016.

Scuba Diving Control Board, CAS, 2011 – 2015.

IACUC committee, CAS, 2012 – present.

Love Life photo competition judge, CAS, 2014.

Seminar committee, CAS, 2013 – 2014.

Curator’s Forum secretary, CAS, 2013 – 2014.

“Built for Speed” exhibit committee, CAS, 2011 – 2013.

Course and Curriculum committee, UTMSI, 2008 – 2011.

Scuba Diving Control Board, UTMSI, 2009 – 2011.

Marine Aquaculture Director search committee, UTMSI, 2010.

Biogeochemistry faculty search committee, UTMSI, 2009.

External examiner for three MSc students, Univ. Federal da Paraíba, Brazil, 2006 – 2009.

Organization Committee, DNA Barcoding Workshop, STRI, 2005.

Commission on Academic Affairs, STRI, 2004.

Field Experience

Led or participated in 53 scientific expeditions (including six oceanographic cruises) to the following locations in tropical seas: Australia, Bahamas, Belize, Bermuda, Brazil, Canary Islands, Cayman Islands, Cape Verde, Christmas Island, Cocos Keeling, Curacao, Djibouti, Easter Island (Chile), Fiji, Florida (Gulf and Atlantic), French Polynesia, Guam, Indonesia, Johnston Atoll, Kauai, Kiritimati, Marshall Islands, Marquesas Islands, Micronesia, Northwestern Hawaiian Islands, Oman, Palau, Panama, Philippines, São Tomé and Príncipe, Saudi Arabia, Seychelles, Socotra (Yemen), Somaliland, U.S. Virgin Islands, Vanuatu, and Venezuela.

Outreach Activities

Led approximately 35 tours of the CAS Ichthyology collection to groups ranging from middle school students, to graduate students, to members of the CAS Board of Trustees. Wrote several popular articles and blogs for the New York Times, the Huffington Post, Deep Sea News, CORAL Magazine, Reefs Magazine, etc.

SELECTED CONFERENCE PRESENTATIONS (last five years, total 162)

Invited

- 2017 II International Symposium of Neotropical Fish Systematics and Phylogenetics. **Rocha, L.A.** Effects of the Pleistocene on Marine Biogeography. Londrina, Brazil, October 2017.
- 2016 Western Society of Naturalists Student Symposium Keynote Speaker. **Rocha, L.A.** Into the Twilight Zone. Monterey, October 2016.
- 2016 Marine Aquarium Conference of North America. **Rocha, L. A.** Aquarium Fish Conservation. San Diego, August 2016.
- 2015 Marine Aquarium Conference of North America. **Rocha, L. A.** The mysteries of Ascension Island. Washington DC, August 2015.
- 2015 21st Brazilian Ichthyology Meeting. **Rocha, L. A.** Genomics and speciation in coral reef fishes. Recife, Brazil, February 2015. [Keynote Session]
- 2014 Marine Aquarium Conference of North America. **Rocha, L. A.** Evolution of coral reef fishes. Denver, CO, August 2014. [Keynote Speaker]
- 2013 2nd International Symposium on Fish Systematics and Evolution. **Rocha, L. A.** Genomics of speciation in coral reef fishes. Tokyo, Japan, July 2013. [Keynote Session]
- 2013 20th Brazilian Ichthyology Meeting. **Rocha, L. A.** Applications of next-generation sequencing in ichthyology. Maringa, Brazil, January 2013.
- 2013 20th Brazilian Ichthyology Meeting. **Rocha, L. A.** Reef fish taxonomy and evolution. Maringa, Brazil, January 2013.
- 2012 Gilbert Ichthyological Society Meeting. **Rocha, L. A.** Speciation in coral reef fishes. Corvallis, OR, September 2012. [Keynote Address]
- 2011 Workshop on the Biogeography and Phylogeography of Atlantic Fishes. **Rocha, L. A.** The effects of sea level fluctuations in Atlantic fish biogeography. Lisbon, Portugal, November 2011. [Keynote Session]
- 2011 19th Brazilian Ichthyology Meeting. **Rocha, L. A.** Phylogeography of Brazilian reef fishes. Manaus, Brazil, February 2011.
- 2011 19th Brazilian Ichthyology Meeting. **Rocha, L. A.** Genic speciation and the accuracy of the molecular clock. Manaus, Brazil, February 2011.
- 2011 Annual Meeting of the Society for Integrative and Comparative Biology. **Rocha, L. A.** Next-generation sequencing and population genomics: an outlook for the future of speciation studies. Salt Lake City, UT, January 2011.

Contributed

- 2015 Evolution Conference. Population genomics of *Dascyllus trimaculatus* in the Indian Ocean. Salas, E., Bernardi, G., Gaither, M.R., Berumen, M., **Rocha, L.A.** Guaruja, Brazil, June 2015.
- 2015 Evolution Conference. Analysis of the transcriptome of three sympatric species of grunts (genus: *Haemulon*). Bernal, M., Matz, M.V., Dixon, G., **Rocha, L.A.** Guaruja, Brazil, June 2015.
- 2014 Joint Meeting of Ichthyologists and Herpetologists. Gaither, M., Bernal, M. A., Coleman, R. R., Bowen, B. W., Jones, S. A., Simison, W. B., **Rocha, L. A.** Genomic signatures of geographic isolation and natural selection in coral reef fishes. Chattanooga, TN, August 2014.
- 2014 Joint Meeting of Ichthyologists and Herpetologists. Ludt, W. B., **Rocha, L. A.**, Chakrabarty, P. Crossing the tropics: Insights from temperate-restricted *Prionurus* surgeonfishes. Chattanooga, TN, August 2014.

- 2014 Evolution Conference. Smells like fish species: massively parallel sequencing supports sympatric speciation of coral reef fishes (genus: *Haemulon*). Bernal, M. A., Gaither, M., Simison, W. B., Sellas, A., **Rocha, L. A.** Raleigh, NC, July 2014.
- 2014 Evolution Conference. The Vitória-Trindade Chain (SE Brazil) as a natural laboratory for reef fish evolutionary studies. Pinheiro, H., Gasparini, J. L., Joyeux, J-C., Bernardi, G., **Rocha, L. A.** Raleigh, NC, July 2014.
- 2014 Evolution Conference. Population genomics of *Dascyllus trimaculatus* (Ruppell, 1829) in the Indian Ocean. Salas, E., Bernardi, G., Berumen, M., Gaither, M. R., **Rocha, L. A.** Raleigh, NC, July 2014.
- 2014 Asia-Pacific Coral Reef Symposium. Genetic connectivity of reef fishes among inshore and offshore Reef Systems in Sudan and its relationship to neighbouring reefs across the Red Sea. DiBattista, J. D., Saenz-Agudelo, P., Piatek, M., Hussey, N., Kessel, S. **Rocha, L. A.**, Bowen, B., Choat, J. H., Gaither, M., Priest, M., Sinclair-Taylor, T., Braun, C., Berumen, M. Kenting, Taiwan, July 2014.
- 2014 Asia-Pacific Coral Reef Symposium. A phylogeographic approach to cataloguing marine biodiversity in the Red Sea. Berumen, M., DiBattista, J. D., **Rocha, L. A.**, Choat, J. H., Baird, A. H., Paulay, G., Bowen, B., Benzoni, F. Kenting, Taiwan, July 2014.
- 2014 Annual Meeting of the Society for Integrative and Comparative Biology. Friedman, S., **Rocha, L. A.** Molecular evidence for biogeographic speciation of the yellowtail damselfish, *Microspathodon chrysurus*. Austin, TX, January 2014. [Best student poster]
- 2013 Joint Meeting of Ichthyologists and Herpetologists. Pinheiro, H., Mazzei, E., Simon, T., Joyeux, J. C., Moura, R. L., **Rocha, L. A.** Reef fishes of the Vitória-Trindade Seamount Chain, southwestern Atlantic. Albuquerque, NM, July 2013.
- 2013 Joint Meeting of Ichthyologists and Herpetologists. Mazzei, E., Pinheiro, H., Simon, T., Joyeux, J. C., Moura, R. L., **Rocha, L. A.** Richness and similarity of reef fish assemblages along the Vitória-Trindade Chain, southwestern Atlantic. Albuquerque, NM, July 2013.
- 2013 Joint Meeting of Ichthyologists and Herpetologists. Salas, E., Bernardi, G., **Rocha, L. A.** Biogeography of *Chromis* in the Eastern Pacific and Atlantic oceans. Albuquerque, NM, July 2013.
- 2013 Joint Meeting of Ichthyologists and Herpetologists. Ludt, W. B., Chakrabarty, P., **Rocha, L. A.** Relationships within the surgeonfish genus *Prionurus* with comments on biogeography and evolutionary history. Albuquerque, NM, July 2013.
- 2013 9th Indo-Pacific Fish Conference. Stump, E., Rocha, C. R., **Rocha, L. A.**, Carpenter, K. E. Molecular systematics and speciation in sharpnose pufferfishes (Tetraodontidae: *Canthigaster*). Okinawa, Japan, June 2013.
- 2013 9th Indo-Pacific Fish Conference. Bernal, M. A., Gaither, M. R., **Rocha, L. A.** Speciation with gene flow in coral reef fishes? Lessons from massively parallel sequencing of grunts (genus *Haemulon*). Okinawa, Japan, June 2013.
- 2013 9th Indo-Pacific Fish Conference. Gaither, M. R., Coleman, R., Bernal, M. A., Bowen, B. W., Jones, S., **Rocha, L. A.** The convoluted evolutionary relationships among species of the Orangeband Surgeonfish complex: Using next-generation sequencing to resolve species histories. Okinawa, Japan, June 2013.
- 2013 9th Indo-Pacific Fish Conference. **Rocha, L. A.**, Gaither, M. R., Pyle, R., Bellwood, D., DiBattista, J. D., Bowen, B. Evolution of the pygmy angelfishes: recent divergence, introgression, and the usefulness of color in fish taxonomy. Okinawa, Japan, June 2013.

- 2013 9th Indo-Pacific Fish Conference. Waldrop, E., Szabo, Z., Craig, M.T., **Rocha, L. A.**, Bowen, B. Phylogeography of the Manybar Goatfish, *Parupeneus multifasciatus*, reveals isolation of the Hawaiian archipelago and a cryptic endemic lineage in the Marquesas. Okinawa, Japan, June 2013.
- 2013 9th Indo-Pacific Fish Conference. Szabo, Z., Snelgrove, B., Craig, M. T., **Rocha, L. A.**, Bowen, B. Phylogeography and evolution of butterflyfish in the subgenus *Corallochaetodon*. Okinawa, Japan, June 2013.
- 2013 9th Indo-Pacific Fish Conference. DiBattista, J., Berumen, M., Gaither, M., **Rocha, L. A.**, Eble, J., Choat, J. H., Craig, M. T., Skillings, D., Bowen, B. After continents divide: Comparative phylogeography of reef fishes from the Red Sea and Indian Ocean. Okinawa, Japan, June 2013.
- 2013 9th Indo-Pacific Fish Conference. Alfaro, M. E., Faircloth, B. C., **Rocha, L. A.**, Sorenson, L. UCE-based sequence capture enables robust phylogeographic reconstruction in fishes. Okinawa, Japan, June 2013.
- 2013 9th Indo-Pacific Fish Conference. Berumen, M., **Rocha, L. A.**, Choat, J. H., Baird, A., DiBattista, J., Paulay, G., Bowen, B. A phylogeographic approach to cataloguing marine biodiversity in the Red Sea. Okinawa, Japan, June 2013.
- 2013 9th Indo-Pacific Fish Conference. DiBattista, J., Whitney, J., Craig, M. T., Hobbs, J. P., **Rocha, L. A.**, Feldheim, K., Bowen, B. W. Hybridization and extensive introgression in Indo-Pacific sister species of surgeonfish. Okinawa, Japan, June 2013.
- 2013 9th Indo-Pacific Fish Conference. Ludt, W. B., Chakrabarty, P., **Rocha, L. A.** Relationships within the surgeonfish genus *Prionurus* with comments on biogeography and evolutionary history. Okinawa, Japan, June 2013.
- 2013 Annual Meeting of the Society for Integrative and Comparative Biology. Stump, E., **Rocha, L. A.**, Rocha, C. and K. Carpenter. Insights from a preliminary phylogeny of the Sharpnose Pufferfishes (genus *Canthigaster*). San Francisco, CA, January 2013.
- 2012 92nd Joint Meeting of the American Society of Ichthyologists and Herpetologists. **Rocha, L. A.** Robertson, D. R. and H. A. Lessios. Allopatric speciation with gene flow in the genus *Stegastes*. Vancouver, BC, August 2012.
- 2012 Evolution Conference. Comparative phylogeography of reef fishes from the Red Sea and Indian Ocean. DiBattista, J., Berumen, M., Gaither, M., **Rocha, L. A.**, Skillings, D. and B. W. Bowen. Ottawa, Canada, July 2012.
- 2012 Evolution Conference. Evolution of the pygmy angelfishes: recent divergences, introgression, and the usefulness of color in fish taxonomy. Gaither, M., Pyle, R., Schultz, J., Bellwood, D., **Rocha, L. A.**, DiBattista, J., Bowen, B. Ottawa, Canada, July 2012.
- 2012 Evolution Conference. Speciation with gene flow in coral reef fish? A fascinating story from an unsexy group of teleosts (genus: *Haemulon*). Bernal, A. and **L. A. Rocha**. Ottawa, Canada, July 2012.
- 2012 Evolution Conference. The evolutionary history of Atlantic and Eastern Pacific *Chromis* (Perciformes: Pomacentridae): Evidence from mtDNA. Salas, E., Bernardi, G. and **L. A. Rocha**. Ottawa, Canada, July 2012.
- 2011 91st Joint Meeting of the American Society of Ichthyologists and Herpetologists. Ludt, W., M. Bernal, B. W. Bowen and **L. A. Rocha**. Sea level fluctuations and genetic diversity in two habitats: Comparisons of two lagoon and two seaward reef wrasses (Genus: *Halichoeres*). Minneapolis, MN, July 2011.

- 2011 91st Joint Meeting of the American Society of Ichthyologists and Herpetologists. DiBattista, J., M. Craig, **L. A. Rocha**, K. Feldheim and B. W. Bowen. Phylogeographic patterns in two related Indo-Pacific Butterflyfish, *Chaetodon meyeri* and *Chaetodon ornatissimus*, reveal insights into evolutionary history. Minneapolis, MN, July 2011.
- 2011 91st Joint Meeting of the American Society of Ichthyologists and Herpetologists. Bernal, M., W. Ludt, M. Craig, B. W. Bowen and **L. A. Rocha**. Phylogeography of *Halichoeres claudia* and *Halichoeres ornatissimus*: New insights on patterns of population connectivity across the Central-West Pacific. Minneapolis, MN, July 2011.

INVITED SEMINARS AND WORKSHOPS

- 2018 Taste of Science, San Francisco, CA
- 2017 National Geographic Explorers Symposium, Berkeley, CA
 Universidade Federal de Santa Catarina, Florianopolis, Brazil
 Sonoma State University, Santa Rosa, CA
 Global Ocean Refuge System and Hope Spot Workshop on Advancing Ocean Conservation
 St. Francis Yacht Club, San Francisco, CA
- 2016 IUCN Grouper Workshop, Azores, Portugal
 Marine Aquarium Conference of North America, San Diego, CA
 NSF iDigBio Imaging Specimen Collections, Champaign, IL
- 2015 Center for Marine Biology, University of Sao Paulo, Brazil
 Marine Aquarium Conference of North America, Washington, DC
 Conservation Office, Ascension Island, United Kingdom
 Bermuda Institute of Ocean Sciences, St. George's, Bermuda
 Florida Museum of Natural History, University of Florida, Gainesville, FL
 21st Brazilian Ichthyology Meeting, Universidade Federal de Pernambuco, Brazil
- 2014 Marine Aquarium Conference of North America, Denver, CO
 New Jersey Reef Club, Edison, New Jersey
 ADVANCE Graduate Student Career Workshop, Stanford University, CA
 Graduate Student Speed Networking, ASIH Conference, Chattanooga, TN
 Workshop on Biogeography of the western Indian Ocean, Jeddah, Saudi Arabia
 IUCN Workshop - Fishes of the Gulf of Mexico, Corpus Christi, Texas
- 2013 Philippines Bureau of Fisheries, Manila, Philippines
 National Museum of Nature and Science, Tokyo, Japan
 9th Indo-Pacific Fish Conference, Okinawa, Japan
 Bohemian Club, San Francisco, California
 20th Brazilian Ichthyology Meeting, Universidade Estadual de Maringa, Brazil
- 2012 ICMBio Reef Fish Regional Red Listing, Ipero, São Paulo, Brazil
 Red Sea Research Center, King Abdullah University, Jeddah, Saudi Arabia
 Graduate Student Speed Networking, ASIH Conference, Vancouver, BC
 Department of Ecology and Evolutionary Biology, University of California at Los Angeles
 NESCENT workshop on Indo-Pacific Phylogeography, Duke University
 Museum of Vertebrate Zoology, University of California at Berkeley
 Washington DC Area Marine Aquarist Society, Leesburg, Virginia
- 2011 Workshop on the Biogeography and Phylogeography of Atlantic Fishes, Lisbon, Portugal
 NSF/Fapesp Partnership in Biodiversity Research, Atlanta, Georgia
 Department of Ecology and Evolutionary Biology, University of California at Santa Cruz
 NSF/Fapesp Partnership in Biodiversity Research, University of São Paulo, Brazil
 IUCN Snappers and Grunts Workshop, Lee Stocking Island, Bahamas

- 19th Brazilian Ichthyology Meeting, Manaus, Brazil
 California Academy of Sciences, San Francisco
 Symposium on Marine Speciation, Society of Integrative Biology Meeting, Salt Lake City
- 2010 IUCN Damselfish Workshop, Suva, Fiji
 California Academy of Sciences, San Francisco
 IUCN Surgeonfish Workshop, Cebu, Philippines
- 2009 Department of Genetics and Evolution, Universidade Federal de São Carlos, São Paulo, Brazil
 XIII Brazilian Fish Genetics Conference, Ponta Grossa, Brazil
 IUCN Butterflyfish and Angelfish Workshop, Atlanta, Georgia
 IUCN Parrotfish Workshop, Bali, Indonesia
 Harte Research Institute, Texas A&M University, Corpus Christi
 IUCN Wrasses Workshop II, Dumaguete, Philippines
- 2008 IUCN Wrasses Workshop I, Recife, Brazil
 Department of Oceanography, Universidade Federal de Pernambuco, Recife, Brazil
 Dept. of Systematics and Ecology, Universidade Federal da Paraíba, João Pessoa, Brazil
- 2007 Marine Science Institute, University of Texas at Austin
 Smithsonian Marine Science Symposium, Washington DC
 Dept. of Systematics and Ecology, Universidade Federal da Paraíba, João Pessoa, Brazil
 IUCN Grouper Specialist Workshop, Hong Kong, China
 17th Brazilian Ichthyology Meeting, Itajaí, Brazil
 Department of Ecology and Evolutionary Biology, University of Tennessee
- 2006 Connectivity Symposium, Gulf and Caribbean Fisheries Institute Meeting, Belize
 Department of Zoology, University of Hawaii
- 2005 Department of Genetics, Universidade Federal do Rio de Janeiro, Brazil
 16th Brazilian Ichthyology Meeting, João Pessoa, Brazil
 Smithsonian Tropical Research Institute, Panama
- 2004 Hopkins Marine Station, Stanford University
 Dept. of Ecology, Evolution and Marine Biology, University of California – Santa Barbara
 ASLO DIALOG VI workshop (Initiative for the Advancement of Limnology and Oceanography)
 Bermuda Biological Station for Research, Bermuda
 Eastern Atlantic fish systematics workshop, FAO-UN, Tenerife, Canary Islands
 Rosenstiel School of Marine Science, University of Miami
- 2003 Department of Biology, University of Puerto Rico
 Department of Systematics and Ecology, Universidade Federal da Paraíba, Brazil
- 2002 Florida Museum of Natural History
- 2001 14th Brazilian Ichthyology Meeting, São Leopoldo, Brazil

PROFESSIONAL MEMBERSHIPS

American Society of Ichthyologists and Herpetologists
 Brazilian Ichthyology Society
 International Biogeography Society (Founding member)
 Society for the Study of Evolution