

LUIZ A. ROCHA

Curriculum Vitae

California Academy of Sciences
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CURRENT POSITIONS

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

2021 – present Full Curator, California Academy of Sciences.
2014 – 2020 Associate Curator, California Academy of Sciences.
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

159. 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 and Book Chapters

158. Shepherd, B., H.T. Pinheiro**, T.A.Y. Phelps**, A. Pérez-Matus, **L.A. Rocha** (2021) *Pseudanthias hangapiko*, a new anthiadine serranid from Rapa Nui (Easter Island). *Zookeys*, in press.
157. Mazzei, E.F., H.T. Pinheiro**, T. Simon, R.L. Moura, R.M. Macieira, C.R. Pimentel, J.B. Teixeira, S.R. Floeter, C.E.L. Ferreira, R.D. Ghisolfi, R.B. Francini-Filho, J.P. Quimbayo, **L.A. Rocha**, J.L. Gasparini, J.-C. Joyeux (2021) Mechanisms of dispersal and establishment drive a stepping stone community assembly on seamounts and oceanic islands. *Marine Biology* 168: 109.
156. Luiz, O.J., W.C.R. Santos, A.P. Marceniuk, **L.A. Rocha**, S.R. Floeter, C.E. Buck, A.G.G.K. Klatau, C.E.L. Ferreira (2021) Multiple lionfish (*Pterois* spp.) new occurrences along the Brazilian coast confirm the invasion pathway into the Southwestern Atlantic. *Biological Invasions*, online.
155. **Pinheiro, H.T., J.A. Nunes, E.O.C. Coni, E.C.G. Almeida, C.L.S. Sampaio, C.E.L. Ferreira, P.M. Meirelles, M. Hostim-Silva, P.H. Pereira, V.J. Giglio, J.L. Gasparini, **L.A. Rocha** (2021) An

- inverted management strategy for the fishery of endangered marine species. *Frontiers in Marine Science* 8: 604108.
154. Pozzobon, A.P.B., P.R. Gonçalves, J.D. Anderson, **L.A. Rocha**, J.M.D. Astarloa, F. Di Dario (2021) Phylogenetic relationships, genetic diversity and biogeography of menhadens, genus *Brevoortia* (Clupeiformes, Clupeidae). *Molecular Phylogenetics and Evolution* 160: 107108.
 153. Cordeiro, C.A.M., J.P. Quimbayo, J.A.C.C. Nunes, L.T. Nunes, M. Sissini, C.L.S. Sampaio, R.A. Morais, P.H. Horta, A.W. Aued, J.L. Carraro, E. Hajdu, **L.A. Rocha**, B. Segal, S.R. Floeter (2021) Conservation status of the southernmost reef of the Amazon Reef System: the Parcel de Manuel Luís. *Coral Reefs* 40: 165–185.
 152. McFarland, E.P., C.C. Baldwin, D.R. Robertson, **L.A. Rocha**, L. Tornabene (2020) A new species of *Chromis* damselfish from the tropical western Atlantic (Teleostei, Pomacentridae). *Zookeys* 1008: 107–138.
 151. Pimentel, C.R., **L.A. Rocha**, B. Shepherd, **T. Phelps, J-C. Joyeux, A.S. Martins, C.E. Stein, J.B. Teixeira, J.L. Gasparini, J.A. Reis-Filho, R.C. Garla, R.B. Francini-Filho, S.D.T. Delfino, T.J. Mello, T. Giarrizzo, **H.T. Pinheiro (2020) Mesophotic ecosystems at Fernando de Noronha Archipelago, Brazil (Southwestern Atlantic), reveal unique ichthyofauna and need for conservation. *Neotropical Ichthyology* 18(4): e200050.
 150. **Rocha, L.A.**, J.D. DiBattista, T.H. Sinclair-Taylor, M.L. Berumen (2020) Wolves in sheep's clothing: three new cases of aggressive mimicry in Red Sea coral reef fishes. *Journal of Natural History* 54: 1019–1023.
 149. **Pinheiro, H.T., B.C.L. Macena, R.B. Francini-Filho, C.E.L. Ferreira, F.V. Albuquerque, N.P.A. Bezerra, A. Carvalho-Filho, R.C.P. Ferreira, O.J. Luiz, T. J. Mello, S.A. Mendonça, D.M. Nunes, C.R. Pimentel, A.M.A. Pires, A. Soares-Gomes, D.L. Viana, F.H.V. Hazin, **L.A. Rocha** (2020) Fish biodiversity of Saint Peter and Saint Paul's Archipelago, Mid-Atlantic Ridge, Brazil: new records and a species database. *Journal of Fish Biology* 97: 1143–1153.
 148. Shepherd, B., **T.A.Y. Phelps, **H.T. Pinheiro, C.R. Rocha, **L.A. Rocha** (2020) Two new species of *Plectranthias* (Teleostei, Serranidae, Anthiadinae) from mesophotic coral ecosystems in the tropical Central Pacific. *Zookeys* 941: 145–161.
 147. Guabiroba, H.C., C.R. Pimentel, R.M. Macieira, G.C. Cardozo-Ferreira, J.B. Teixeira, J.L. Gasparini, J-C. Joyeux, T. Simon, **L.A. Rocha**, **H.T. Pinheiro (2020) New records of fishes for the Vitória-Trindade Chain, southwestern Atlantic. *CheckList* 16(3): 699–705.
 146. Shepherd, B., **H.T. Pinheiro, **T.A.Y. Phelps, E.E. Easton, A. Perez-Matus, **L.A. Rocha** (2020) A New Species of *Chromis* (Teleostei: Pomacentridae) from Mesophotic Coral Ecosystems of Rapa Nui (Easter Island) and Salas y Gómez, Chile. *Copeia* 108(2): 326–332.
 145. Duarte, G.A.S., H.D.M. Villela, M. Deocleciano, D. Silva, A. Barno, P.M. Cardoso, C.L.S. Vilela, P. Rosado, C.S.M.A. Messias, M.A. Chacon, E.P. Santoro, D.B. Olmedo, M. Szpilman, **L.A. Rocha**, M. Sweet, R.S. Peixoto (2020) Heat waves are a major threat to turbid coral reefs in Brazil. *Frontiers in Marine Science* 7: 179.
 144. DiBattista, P. Saenz-Agudelo, M.J. Piatek, E.F. Cagua, B.W. Bowen, J.H. Choat, **L.A. Rocha**, M.R. Gaither, J.-P.A. Hobbs, T.H. Sinclair-Taylor, J.H. McIlwain, M.A. Priest, C.D. Braun, N.E. Hussey, S.T. Kessel, M.L. Berumen (2020) Population genomic response to geographic gradients by widespread and endemic fishes of the Arabian Peninsula. *Ecology and Evolution* 10(10): 4314–4330.

143. **Salas, E., J.P.A. Hobbs, M.A. Bernal, W.B. Simison, M.L. Berumen, G. Bernardi, **L.A. Rocha** (2020) Distinct patterns of hybridization across a suture zone in a coral reef fish (*Dascyllus trimaculatus*). *Ecology and Evolution* 10(6): 2813–2837.
142. Tea, Y.K., R.L. Pyle, **L.A. Rocha** (2020) A New Species of Fairy Wrasse (Teleostei: Labridae: *Cirrhilabrus*) from Mesophotic Coral Ecosystems of the Verde Island Passage, Philippines. *Copeia* 108: 91–102.
141. Ludt, W., **L.A. Rocha**, P. Chackrabarty (2020) The first complete mitochondrial genomes of sawtail surgeonfishes (Acanthuridae: *Prionurus*). *Mitochondrial DNA* 5: 212–213.
140. Shepherd, B., **H.T. Pinheiro, **L.A. Rocha** (2019) Sometimes hard to swallow: Attempted feeding on a porcupinefish results in death of both predator and prey. *Western Indian Ocean Journal of Marine Science* 18: 87–89.
139. Bongaerts, P., G. Perez-Rosales, V.Z. Radice, G. Eyal, A. Gori, E. Gress, N.M. Hammerman, A. Hernandez-Agreda, J. Laverick, P. Muir, **H.T. Pinheiro, R.L. Pyle, **L.A. Rocha**, J.A. Turner, R. Booker (2019) Mesophotic.org: a repository for scientific information on mesophotic ecosystems. *Database* 2019: baz140.
138. **Pinheiro, H.T., C. S. Moreau, M. Daly, **L. A. Rocha** (2019) Will DNA barcoding meet taxonomic needs? *Science* 365: 873–874.
137. **Pinheiro H.T., J. Fong, D. Catania, M. Hoang, B.G. Arango, C.R. Rocha, **L.A. Rocha** (2019) Collection of fishes of the California Academy of Sciences. *Boletim da Sociedade Brasileira de Ictiologia* 129: 4–8.
136. **Pinheiro, H.T., B. Shepherd, C. Castillo, R.A. Abesamis, J.M. Copus, R.L. Pyle, B.D. Greene, R.R. Coleman, R.K. Whitton, E. Thillainath, A.A. Bucol, M. Birt, D. Catania, M.V. Bell, **L.A. Rocha** (2019) Deep reef fishes in the world’s epicenter of marine biodiversity. *Coral Reefs* 38: 985–995.
135. Tea, Y.K., **H.T. Pinheiro, B. Shepherd, **L.A. Rocha** (2019) *Cirrhilabrus wakanda*, a new species of fairy wrasse from mesophotic ecosystems of Zanzibar, Tanzania, Africa (Teleostei: Labridae). *Zookeys* 863: 85–96.
134. **Pinheiro, H.T., B. Shepherd, B.D. Greene, **L.A. Rocha** (2019) *Liopropoma incandescens* sp. n. (Epinephelidae, Liopropominae), a new species of basslet from mesophotic coral ecosystems of Pohnpei, Micronesia. *Zookeys* 863: 97–106.
133. Shepherd, B., **H.T. Pinheiro, **T. Phelps, A. Perez-Matus, **L.A. Rocha** (2019) *Luzonichthys kiomeamea* (Teleostei: Serranidae: Anthiadae), a new species from a mesophotic coral ecosystem of Rapa Nui (Easter Island). *Journal of the Ocean Science Foundation* 33: 17–27.
132. **Salas, E.M., G. Bernardi, M.L. Berumen, M.R. Gaither, **L.A. Rocha** (2019) RADseq analyses reveal concordant Indian Ocean biogeographic and phylogeographic boundaries in the reef fish *Dascyllus trimaculatus*. *Royal Society Open Science* 6(5): 172413.
131. Nunes, L.T., I. Cord, R.B. Francini-Filho, S.N. Stampar, **H.T. Pinheiro, **L.A. Rocha**, S.R. Floeter, C.E.L. Ferreira (2019) Ecology of *Prognathodes obliquus*, a butterflyfish endemic to mesophotic ecosystems of St. Peter and St. Paul’s Archipelago. *Coral Reefs* 38: 955–960.
130. Pyle, R.L., R.K. Kosaki, **H.T. Pinheiro, **L.A. Rocha**, R.K. Whitton, J.M. Copus (2019) Fishes: Biodiversity. In: Y. Loya et al. eds. *Mesophotic Coral Ecosystems*. Springer, pp. 749–777.

129. Francini-Filho, R.B., V.M. Velasquez, M.B. Silva, M.R. Rosa, P.Y.G. Sumida, **H.T. Pinheiro, **L.A. Rocha**, C.E.L. Ferreira, C.L.B. Francini, R.S. Rosa (2019) Mesophotic Coral Ecosystems: Brazil. In: Y. Loya et al. eds. *Mesophotic Coral Ecosystems*. Springer, pp. 163–198.
128. **Pinheiro, H.T., G. Eyal, B. Shepherd, **L.A. Rocha** (2019) Ecological insights from environmental disturbances in mesophotic coral ecosystems. *Ecosphere* 10(4): e02666.
127. **Arango, B.G, **H.T. Pinheiro, C. Rocha, B.D. Greene, R.L. Pyle, J.M. Copus, B. Shepherd, **L.A. Rocha** (2019) Three new species of *Chromis* (Teleostei: Pomacentridae) from mesophotic coral ecosystems of the Philippines. *Zookeys* 835: 1–15.
126. Shepherd, B., M. Wandell, **H.T. Pinheiro, **L.A. Rocha** (2019) The SubCAS: A Pressure Chamber for Fish. *Frontiers for Young Minds* 7: 40.
125. **Bernal, M., G.B. Dixon, M.V. Matz and **L.A. Rocha** (2019) Comparative transcriptomics of sympatric species of coral reef fishes (genus: *Haemulon*). *Peer J* 7: e6541.
124. **Pinheiro, H.T., J.B. Teixeira, R.B. Francini-Filho, A. Soares-Gomes, C.E.L. Ferreira, **L.A. Rocha** (2019) Hope and doubt for the world’s marine ecosystems. *Perspectives in Ecology and Conservation* 17(1):19–25.
123. DiBattista J.D., M.E. Alfaro, L. Sorenson, J.H. Choat, J.-P.A. Hobbs, T.H. Sinclair-Taylor, **L.A. Rocha**, J. Chang, O.J. Luiz, P.F. Cowman, M. Friedman, M.L. Berumen (2018) Ice ages and butterflyfishes: phylogenomics elucidates the ecological and evolutionary history of reef fishes in an endemism hotspot. *Ecology and Evolution* 8(22): 10989–11008.
122. **Pinheiro, H.T., C.R. Rocha, **L.A. Rocha** (2018) *Tosanoides aphrodite* (Perciformes: Serranidae: Anthiadae), a new species from lower mesophotic reefs of St. Paul’s Rocks, Mid Atlantic Ridge. *Zookeys* 786: 105–115.
121. Zamudio, K.A., A. Kellner, C. Serejo, M.R. Britto, C.B. Castro, P.A. Buckup, D.O. Pires, M. Couri, A.B. Kury, I.A. Cardoso, M.L. Monné, J. Pombal Jr., C.M. Patiu, V. Padula, A.D. Pimenta, C.R.R. Ventura, E. Hajdu, J. Zanol, E.M. Bruna, J. Fitzpatrick, **L.A. Rocha** (2018) Lack of science support fails Brazil. *Science* 361: 1322–1323.
120. Giglio, V.J., **H.T. Pinheiro, M.G. Bender, R.M. Bonaldo, L.V. Costa-Lotufo, C.E.L. Ferreira, S.R. Floeter, A. Freire. J.L. Gasparini, J.-C. Joyeux, J.P. Krajewski, A. Lindner, G.O. Longo, T.M.C. Lotufo, R. Loyola, O.J. Luiz, R.M. Macieira, R.A. Magris, T.J. Mello, J.P. Quimbayo, **L.A. Rocha**, B. Segal, J.B. Teixeira, D.A. Vila-Nova, C.C. Vilar, C. Zilderberg, R.B. Francini-Filho (2018) Large and remote marine protected areas in the South Atlantic Ocean are flawed and raise concerns: Comments on Soares and Lucas (2018). *Marine Policy* 96: 13–17.
119. **Rocha, L.A.**, **H.T. Pinheiro, B. Shepherd, Y.P. Papastamatiou, O.J. Luiz, R.L. Pyle, P. Bongaerts (2018) Mesophotic coral ecosystems are threatened and ecologically distinct from shallow water reefs. *Science* 361: 281–284.
118. Shepherd, B., M. Wandell, **H.T. Pinheiro, **L.A. Rocha** (2018) SubCAS: A Portable, Submersible Hyperbaric Chamber to Collect Living Mesophotic Fishes. *Frontiers in Marine Science* 5: 187.
117. **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* 24(7): 951–965.
116. Shepherd, B., **T. Phelps, **H.T. Pinheiro, A. Perez-Matus, **L.A. Rocha** (2018) *Plectranthias ahiahiata*, a new species of perchlet from a mesophotic ecosystem at Rapa Nui (Easter Island) (Teleostei, Serranidae, Anthiadae). *Zookeys* 762: 105–116.
 115. **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* 8: 1498.
 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** (2018) Fauna at Home: Animals as Pets. In: R.R.N. Alves and U.P. Albuquerque eds. *Ethnozology: Animals in Our Lives*. Academic Press, pp. 303–321.
 112. Pinto, M.F., T.P.R. Oliveira, **L.A. Rocha**, R.R.N. Alves (2018) 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. Shepherd, B., **H.T. Pinheiro, **L.A. Rocha** (2018) Ephemeral aggregation of the benthic ctenophore *Lyrocteis imperatoris* on a mesophotic coral ecosystem in the Philippines. *Bulletin of Marine Science* 94(1): 101–102.
 110. **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]
 109. **Rocha, L.A.**, **H.T. Pinheiro, M. Wandell, C.R. Rocha, B. Shepherd (2017) *Roa runsfeldi*, a new butterflyfish (Teleostei: Chaetodontidae) from mesophotic coral ecosystems of the Philippines. *ZooKeys* 709: 127–134.
 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 (2017) Mob rulers and part-time cleaners: two reef fish associations at the isolated Ascension Island. *Journal of the Marine Biological Association of the UK* 97(4): 799–811.
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. Tremblay, 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.
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1. **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]

AWARDS AND HONORS

- 2021 **Rolex Award for Enterprises**
- 2021 Fellow, **International Coral Reef Society**
- 2021 Mid-Career Scientist Award, **International Coral Reef Society**
- 2019 Margaret M. Stewart Achievement Award for Excellence in Ichthyology, **American Society of Ichthyologists and Herpetologists**
- 2014 Fellow, **California Academy of Sciences**

RESEARCH GRANTS AND FELLOWSHIPS

- 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 (US\$8,500,000 for five years)
- 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 above)
- 1997 **Graduate Student Scholarship**, Brazilian Ministry of Education (US\$ 12,000 for two years)

ACADEMIC EXPERIENCE

Editorial and Society Service

Member, ASIH Margaret Stewart Award Selection Committee, 2021–present.

Mentor, ASIH Cashner Award to Students from Underrepresented Groups, 2020–present.

ASIH Board of Governors, 2012–2017, 2019–present.

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

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

Managing Editor of Systematics and Molecular Biology, *Neotropical Ichthyology*, 2014–2019.

Associate Editor, *Journal of Biogeography*, 2008–2018.

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

Judge for Stoye Award (best student talk), Am. Soc. of Ichthyologists and Herpetologists, 2019.

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

Judge for Bleeker Award, Indo-Pacific Fish Conference, 2017.

ASIH representative to the Society for the Preservation of Natural History Collections, 2012–2017.

Judge for Storer Award (best student poster), Am. Soc. 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, BioScience, 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, Ecology and Evolution, Environmental Biology of Fishes, Evolution, Evolutionary Biology, Evolutionary Ecology, Fish and Fisheries, Fisheries Research, Fishery Bulletin, Food and Agriculture Organization of the United Nations, Frontiers in Marine Science, Gene, Genetica, Genetics and Molecular Biology, Global Ecology and Biogeography, Helgoland Marine Research, Hydrobiologia, Ichthyological Research, International Journal of Molecular Sciences, Journal of Biogeography, Journal of Evolutionary Biology, 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 Environmental Research, Marine and Freshwater Research, Molecular Biology and Evolution, Molecular Biology Reports, Molecular Ecology, Molecular Phylogenetics and Evolution, Nature Communications, 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 National Academy of the USA, Proceedings of the Royal Society of London B, Scientific Reports, Spixiana, Reviews in Fish Biology and Fisheries, Transactions of the American Philosophical Society, Zookeys, Zoological Journal of the Linnean Society, Zoology, Zootaxa.

Grant proposal 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
Pew Bertarelli Foundation
Schmidt Ocean Foundation

Tenure and advancement package evaluations for *Drexel University, University of California at Los Angeles, and the Smithsonian Tropical Research Institute*

Book proposal reviews for *Princeton University Press*, *Cornell University Press*, and *Callisto Media*

Grant Proposal Panel participation:

Bertarelli Foundation Marine Science Programme – Winter 2020

NSF Broadening Participation of Groups Underrepresented in Biology – Winter 2019

NSF Systematic Biology and Biodiversity Inventories – Spring 2012

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 Maringa, 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

Current Students

Cerise Chen

Tyler Phelps

Degree

Ph.D.

M.Sc.

Institution

University of California Santa Cruz

San Francisco State University

Post-docs

Chancey MacDonald

Alison Gould

Stuart Willis

Hudson Pinheiro

Iria Fernandez

Francisco Lazzarotto

Minki Oh

Pius Oben

Michelle Gaither

Years

2020–present

2018–present

2017–2019

2016–2019

2013–2017

2015–2017

2014–2016

2012–2013

2011–2013

Current Position

Postdoc, California Academy of Sciences

Postdoc, California Academy of Sciences

Scientist, Columbia River Fish Commission

Postdoc, Universidade de Sao Paulo

Research Fellow, University of Vigo

Postdoc, Universidade de São Paulo

Postdoc, Osaka University

Professor, University of Buea, Cameroon

Assistant Professor, Univ of Central Florida

Concluded Supervisions

Hudson Pinheiro

Eva M. Salas

Degree/Year

Ph.D./2016

Ph.D./2016

Current Position

Postdoc, Universidade de Sao Paulo

Instructor, Cabrillo College

Moises Bernal	Ph.D./2015	Assistant Professor, Auburn University
William B. Ludt	M.Sc./2011	Assistant Curator, LA Museum of Nat History

Committee Member

Leandro Eduardo	Ph.D./2021	Université de Montpellier, France
Flavia Petean	Ph.D./2020	Universidade Federal do RN, Brazil
Felipe Torquato	Ph.D./2018	University of Copenhagen
Colbi Brown	M.Sc./2010	University of Texas Austin
Megan Fencil	Ph.D./2009	University of Texas Austin

External Thesis Reader

Christopher Hemingson	Ph.D./2021	James Cook University
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

2021 Mesophotic Coral Ecosystems. Universidade Federal Fluminense coral reef class.
 2021 Reef Fish Speciation. Universidade Federal de Santa Catarina marine biology class.
 2020 Natural History Careers. University of Florida Museum Studies class.
 2020 The politics of marine conservation. UC Berkeley Fish Biology class.
 2018 Reef Fish Ecology and Evolution. UC Berkeley Island Biogeography class.
 2018 Mesophotic Coral Reef Exploration. Fromm Lecture, University of San Francisco.
 2017 Reef Fish Ecology and Evolution. UC Berkeley Island Biogeography class.
 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

- Co-organized a session on “Marine Island Biogeography” during the 3rd Island Biology Conference, Reunion Island, July 2019.
- Co-organized a session on “Fishes from Mesophotic Coral Ecosystems” during the 10th Indo-Pacific Fish Conference, Tahiti, October 2017.
- 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

- California Academy of Sciences Fellow selection committee, 2021 – present.
- “Collections Gallery” exhibit committee, CAS, 2019 – present.
- “Sharks” exhibit committee, CAS, 2020 – 2021.
- Strategic Task Force, CAS, 2020 – present.
- Exhibit Scientific Committee, CAS, 2019 – present.
- IACUC committee chair, CAS, 2019 – present.
- Co-Chair of the Scuba Diving Control Board, CAS, 2015 – present.
- Coral Reefs Planetarium Show lead science advisor, CAS, 2016 – 2018.
- 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 – 2019.
- 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 68 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, Venezuela, and Zanzibar (Tanzania).

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

- 2020 Global Coral Reef Week. Plenary Talk. Using advanced technical diving for deep reef exploration. **Rocha, L.A.** Virtual talk on Zoom broadcasted live on YouTube, July 2020.
- 2019 Joint Meeting of Ichthyologists and Herpetologists. Preserved specimens benefit public education and generate compelling exhibits. **Rocha, L.A.** Snowbird, UT, July 2019.
- 2018 Fall Enrichment Program, King Abdullah University of Science and Technology, Keynote Speaker. **Rocha, L.A.** Ecology and Evolution of Fishes in Mesophotic Coral Ecosystems. Jeddah, Saudi Arabia, October 2018.
- 2017 II International Symposium of Neotropical Fish Systematics and Phylogenetics Keynote Speaker. **Rocha, L.A.** Effects of the Pleistocene on Marine Biogeography. Londrina, Brazil, October 2017.
- 2017 Americas Latino EcoFestival Keynote Speaker. Coral Reef Biology and Conservation. **Rocha, L.A.** Denver, September 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]

Contributed

- 2020 Animal Behavior Society Virtual Conference. Avoidance of degraded resources by coral obligate fish increases with depth, following thermal stress. **C. MacDonald, B. Shepherd, **H.T. Pinheiro, **T. Phelps, **L.A. Rocha.**
- 2019 Island Biology Conference. The rise of politics-based conservation. **Rocha, L.A.** Reunion Island, July 2019.
- 2018 International Marine Conservation Conference. The rise of politics-based conservation. **Rocha, L.A.** Kuching, Malaysia, June 2018.
- 2017 Indo-Pacific Fish Conference. Are mesophotic coral ecosystems a refuge for shallow reefs? **Rocha, L.A.,** **H.T. Pinheiro, B. Shepherd, Y.P. Papastamatiou, O.J. Luiz, R.L. Pyle, P. Bongaerts. Tahiti, October 2017.
- 2017 Indo-Pacific Fish Conference. Island Biogeography of Marine Organisms. **Pinheiro, H.T., G. Bernardi, T. Simon, J.-C. Joyeux, R.M. Macieira, J.L. Gasparini, C.R. Rocha, **Rocha, L.A.** Tahiti, October 2017.
- 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.

INVITED SEMINARS AND WORKSHOPS (last 10 years, total 103)

- 2021 Mesophotic Coral Ecosystems, Universidade Federal do Rio de Janeiro, Zoom Seminar
Zoo and Natural History Museum, National Science Foundation, Zoom Workshop
Biology Department, Westmont College, Santa Barbara, Zoom Seminar
US National Marine Sanctuary Science Round Table, Zoom Workshop
- 2020 Department of Biology, Universidade Federal da Bahia, Zoom Seminar
American Fisheries Society Georgia Chapter, Zoom Seminar
Department of Biology, University of Hawaii, Zoom Seminar
Central Marine Fisheries Institute of India, New Delhi, India, Zoom Seminar
Friends of San Pedro Valley Park, San Francisco, Zoom Seminar
Universidade Estadual Paulista, Botucatu, Brazil, Zoom Seminar
Universidade Federal Fluminense, Rio de Janeiro, Brazil, Zoom Seminar
Exploring by the Seat of your Pants, Zoom Seminar
Georgia Aquarium, cancelled due to COVID19
Department of Ecology and Evolution, UC Santa Cruz, Zoom Seminar
- 2019 Maldives Marine Research Institute, Male, Maldives
Auburn University, Auburn, AL
ASIH Graduate Student Workshop on Diversity, Equity, and Inclusion, Snowbird, UT
ASIH Expanding the Role of Natural History Collections, Snowbird, UT
WorkDay, Ocean Conservation in the 21st Century, Pleasanton, CA
- 2018 NSF Systematics Monograph Workshop, New York City, NY
Virginia Institute of Marine Sciences, Gloucester Point, VA
Bohemian Grove, Monte Rio, CA
Capitol Hill Ocean Week, Washington, DC
Taste of Science, San Francisco, CA

- University of San Francisco, 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

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science

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