

Brant C. Faircloth

Department of Biological Sciences
Louisiana State University
220 Life Sciences Building
Baton Rouge, LA 70803 U.S.A.

telephone: +1.310.415.7551
email: brant at faircloth-lab dot org
www: <http://faircloth-lab.org>

Research interests

Population and evolutionary genomics of non-model vertebrates; evolution of regulatory regions; genotype-phenotype interactions; (immuno-)genetic basis of mate choice; mating behavior; natural history

Current affiliations

- 2015- *Faculty Associate*, LSU Museum of Natural Science, Baton Rouge, LA
- 2014- *Assistant Professor*, Biological Sciences, Louisiana State University, Baton Rouge, LA
- 2010- *Visiting Scientist*, Tall Timbers Research Station, Tallahassee, FL

Prior affiliations

- 2011-2014 *Assistant Research Scientist*, Ecology & Evolutionary Biology, UCLA, Los Angeles, CA
- 2010-2011 *Post-doctoral Scholar*, Ecology & Evolutionary Biology, UCLA, Los Angeles
Mentor: Stephen P. Hubbell
- 2008-2010 *Post-doctoral Scholar*, Ecology & Evolutionary Biology, UCLA, Los Angeles
Mentor: Patricia Adair Gowaty
- 2000-2008 *Research Assistant*, Warnell School of Forestry & Natural Resources, University of Georgia
Major professor: John P. Carroll

Education

- 2000-2008 Doctor of Philosophy, University of Georgia
- 1998-2000 Bachelor of Science in Forest Resources, University of Georgia, *Magna Cum Laude*
- 1995-1997 Bachelor of Arts (candidate), Middlebury College

Honors & awards

- 2010 Robert C. Anderson Memorial Award for Excellence in Research (Univ. of Georgia)
- 2007 Stoddard-Burleigh-Sutton Award in Ornithology (Univ. of Georgia)
- 2006 Blue Key Honor Society (Univ. of Georgia)
- 2006 E. L. Cheatum Award (Forestry & Natural Resources)

- 2003 Archie E. Patterson Scholarship (Forestry & Natural Resources)
 2000 Outstanding Senior in Forest Resources (Forestry & Natural Resources)
 2000 Faculty Award (Forestry & Natural Resources)
 2000 Outstanding Senior in Wildlife (Forestry & Natural Resources)
 2000 *Xi Sigma Pi* inductee
 1998-2000 Presidential Scholar (Univ. of Georgia)
 1998-2000 HOPE Scholarship (State of Georgia)
 1998-2000 Alumni-fund Scholarship (Forestry & Natural Resources)

Publications (trainees underlined; * undergraduate; † corresponding; ‡ equal authorship)

Peer-refereed manuscripts

78 total | **8527 citations** | **h-index: 29, i10-index: 53** | (source: [Google Scholar](#) Oct. 25, 2018)

78. 2019 TJ Kieran, ERL Gordon, M Forthman, R Hoey-Chamberlain, RT Kimball, **BC Faircloth**, C Weirauch, TC Glenn. Insight from an ultraconserved element bait set designed for hemipteran phylogenetics integrated with genomic resources. **Molecular Phylogenetics and Evolution**. doi: [10.1016/j.ympev.2018.10.026](https://doi.org/10.1016/j.ympev.2018.10.026).
77. 2019 R Tamashiro, ND White, ME Braun, **BC Faircloth**, EL Braun, R Kimball. What are the roles of taxon sampling and model fit in tests of cyto-nuclear discordance using avian mitogenomic data? **Molecular Phylogenetics and Evolution** 130:132-142. pmid: [30321694](https://pubmed.ncbi.nlm.nih.gov/30321694/) doi: [10.1016/j.ympev.2018.10.008](https://doi.org/10.1016/j.ympev.2018.10.008).
76. 2018 K Winker, TC Glenn, **BC Faircloth**. Ultraconserved elements (UCEs) illuminate the population genomics of a recent, high-latitude avian speciation event. **PeerJ** 6:e5735. pmid: [30310754](https://pubmed.ncbi.nlm.nih.gov/30310754/) doi: [10.7717/peerj.5735](https://doi.org/10.7717/peerj.5735).
75. 2018 MR Pie, **BC Faircloth**, LF Ribiero, MR Bornschein, JE McCormack. Phylogenomics of montane frogs of the Brazilian Atlantic Forest supports a scenario of isolation in sky islands followed by relative climatic stability. **Biological Journal of the Linnaen Society** 125:72-82. doi:[10.1093/biolinnean/bly093](https://doi.org/10.1093/biolinnean/bly093).
74. 2018 T Hofmann, A Fernandes, U Olsson U, M Töpel, B Pfeil, B Oxelman, A Aleixo, **BC Faircloth**, A Antonelli. Allele phasing greatly improves the phylogenetic utility of ultraconserved elements. **Systematic Biology**. pmid: [29771371](https://pubmed.ncbi.nlm.nih.gov/29771371/) doi: [10.1093/sysbio/syy039](https://doi.org/10.1093/sysbio/syy039).
73. 2018 MW Henson, VC Lanclos, **BC Faircloth**, JC Thrash. Cultivation and genomics of the first freshwater SAR11 (LD12) isolate. **ISME Journal** 12:1846–1860. pmid: [29599519](https://pubmed.ncbi.nlm.nih.gov/29599519/) doi: [10.1038/s41396-018-0092-2](https://doi.org/10.1038/s41396-018-0092-2).
72. 2018 ME Alfaro^{††}, **BC Faircloth**^{††}, RC Harrington, L Sorenson, M Friedman, CE Thacker, and TJ Near. Explosive diversification of marine fishes at the Cretaceous-Paleogene boundary. **Nature Ecology and Evolution** 2:688–696. pmid: [29531346](https://pubmed.ncbi.nlm.nih.gov/29531346/) doi: [10.1038/s41559-018-0494-6](https://doi.org/10.1038/s41559-018-0494-6).

71. 2018 AM Quattrini, **BC Faircloth**, LF Dueñas, TCL Bridge, M Brugler, IF Calixto-Botía, DM DeLeo, S Forêt, S Herrera, S Lee, DJ Miller, C Prada, G Rádis-Baptista, C Ramírez-Portilla, JA Sánchez, E Rodríguez, and CS McFadden. Universal target-enrichment baits for anthozoan (Cnidaria) phylogenomics: New approaches to long-standing problems. **Molecular Ecology Resources** 18:281-295. pmid: [29131534](#) doi: [10.1111/1755-0998.12736](#).
70. 2018 RN Platt, **BC Faircloth**, KAM Sullivan, T Kieran, TC Glenn, MW Vandewege, TE Lee, R Baker, RD Stevens, DA Ray. Conflicting evolutionary histories of the mitochondrial and nuclear genomes in New World *Myotis*. **Systematic Biology** 67:236–249. pmid: [28945862](#) doi: [10.1093/sysbio/syx070](#).
69. 2017 MH Van Dam, AW Lam, K Sagata, B Gewa, R Laufa, M Blake, **BC Faircloth**, A Riedel. Ultraconserved elements (UCEs) resolve the phylogeny of Australasian smurf-weevils. **PLoS One** 12: e0188044. pmid: [29166661](#) doi: [10.1371/journal.pone.0188044](#).
68. 2017 JA Esselstyn, CH Oliveros, MT Swanson, **BC Faircloth**. Investigating difficult nodes in the placental mammal tree with expanded taxon sampling and thousands of ultraconserved elements. **Genome Biology and Evolution** 9:2308–2321. pmid: [28934378](#) doi: [10.1093/gbe/evx168](#).
67. 2017 M Pie, P Ströher, R Belmonte-Lopes, M Bornschein, L Ribiero, **BC Faircloth**, JE McCormack. Phylogenetic relationships of diurnal, phytotelm-breeding *Melanophryniscus* (Anura: Bufonidae) based on mitogenomic data. **Gene** 628:194-199. pmid: [28720533](#) doi: [10.1016/j.gene.2017.07.048](#).
66. 2017 S Castrezana, **BC Faircloth**, W Bridges, PA Gowaty. Polyandry enhances offspring viability with survival costs to mothers only when exposed exclusively to virgin males in *Drosophila melanogaster*. **Ecology and Evolution** 7:7515–7526. doi: [10.1002/ece3.3152](#).
65. 2017 **BC Faircloth**. Identifying conserved genomic elements and designing universal probe sets to enrich them. **Methods in Ecology and Evolution** 8:1103-1112. doi: [10.1111/2041-210X.12754](#).
64. 2017 P Chakrabarty^{††}, **BC Faircloth**^{††}, CD McMahan, WB Ludt, WL Fink, TJ Near, A Dornberg, JS Albert, J Arroyave, MLJ Stiasny, L Sorenson, ME Alfaro. Phylogenomic systematics of ostariophysan fishes: Ultraconserved elements support the surprising non-monophyly of characiformes. **Systematic Biology** 66:881-895. pmid: [28334176](#) doi: [10.1093/sysbio/syx038](#).
63. 2017 CD Hulsey, J Zheng*, **BC Faircloth**, A Meyer, ME Alfaro. Phylogenomic analysis of Lake Malawi cichlid fishes: Further evidence that the three-stage model of diversification does not fit. **Molecular Phylogenetics and Evolution** 114:40-48. pmid: [28579077](#) doi: [10.1016/j.ympev.2017.05.027](#).
62. 2017 MG Branstetter[†], JT Longino, PS Ward, **BC Faircloth**[†]. Enriching the ant tree of life: enhanced UCE bait set for genome-scale phylogenetics of ants and other Hymenoptera. **Methods in Ecology and Evolution** 8:768-776. doi: [10.1111/2041-210X.12742](#).

61. 2017 J Starrett, S Derkarabetian, M Hedin, RW Bryson Jr., JE McCormack, **BC Faircloth**. High phylogenetic utility of an ultraconserved element probe set designed for Arachnida. **Molecular Ecology Resources** 17:812-823. pmid: [27768256](#) doi: [10.1111/1755-0998.12621](#).
60. 2017 SJ Longo, **BC Faircloth**, A Meyer, ME Westneat, ME Alfaro, PC Wainright. Phylogenomic analysis of a rapid radiation of misfit fishes (Syngnathiformes) using ultraconserved elements. **Molecular Phylogenetics and Evolution** 113:33-48. pmid: [28487262](#) doi: [10.1016/j.ympev.2017.05.002](#).
59. 2017 MG Branstetter, A Ješovnik, J Sosa-Calvo, M Lloyd, **BC Faircloth**, S Brady, T Schultz. Dry habitats were crucibles of domestication in the evolution of agriculture in ants. **Proceedings of the Royal Society B** 284:20170095. pmid: [28404776](#) doi: [10.1098/rspb.2017.0095](#). [Featured in *The New York Times*, *The Washington Post*, *Smithsonian Magazine*, & others]
58. 2017 MG Branstetter, BN Danforth, JP Pitts, **BC Faircloth**, PS Ward, ML Buffington, MW Gates, RR Kula, SG Brady. Phylogenomic Insights into the evolution of stinging wasps and the origins of ants and bees. **Current Biology** 27:1019-1025. pmid: [28376325](#) doi: [10.1016/j.cub.2017.03.027](#).
57. 2017 MR Pie, PR Ströher, MR Bornschein, LF Ribiero, **BC Faircloth**, JE McCormack. The mitochondrial genome of *Brachycephalus brunneus* (Anura: Brachycephalidae), with comments on the phylogenetic position of Brachycephalidae. **Biochemical Systematics and Ecology** 71:26-31. doi: [10.1016/j.bse.2016.12.009](#).
56. 2016 GS Gilbert, JO Ballesteros, CA Barrios-Rodriguez, EF Bonadies, ML Cedeño Sánchez, NJ Fossatti-Caballero, MM Trejos-Rodríguez, JM Pérez-Suñiga, KS Holub-Young*, KAW Henn*, JB Thompson*, CG García-López*, AC Romo*, DC Johnston, PP Barrick, FA Jordan, S Hersh-covich*, Natalie Russo*, Juan David Sánchez*, JP Fábrega*, R Lumpkin*, HA McWilliams*, KN Chester*, AC Burgos*, EB Wong*, JH Diab*, SA Renteria*, JT Harrower*, DA Hooton, TC Glenn, **BC Faircloth**, SP Hubbell. Use of acoustic tomography to detect and quantify wood decay in living trees. **Applications in Plant Sciences** 4:1600060. pmid: [28101433](#) doi: [10.3732/apps.1600060](#).
55. 2016 RC Harrington, **BC Faircloth**, RI Eytan, WL Smith, TJ Near, ME Alfaro, M Friedman. Phylogenomic analysis of carangimorph fishes reveals flatfish asymmetry arose in a blink of the evolutionary eye. **BMC Evolutionary Biology** 7:12709. pmid: [27769164](#) doi: [10.1186/s12862-016-0786-x](#).
54. 2016 RG Moyle, CH Oliveros, MJ Andersen, PA Hosner, BW Benz, JD Manthey, SL Travers, RM Brown, **BC Faircloth**. Tectonic collision and uplift of Wallacea triggered the global songbird radiation. **Nature Communications** 7:12709. pmid: [27575437](#) doi: [10.1038/ncomms12709](#). [Featured in *The Guardian*, *Der Spiegel*, & others]

53. 2016 E Zarza, **BC Faircloth**, W Tsai, R Bryson Jr., J Klicka, JE McCormack. Hidden histories of gene flow in highland birds revealed with genomic markers. **Molecular Ecology** 25:5144-5157. pmid: [27543758](#) doi: [10.1111/mec.13813](#).
52. 2016 TC Glenn, **BC Faircloth**[†]. Capturing Darwin's dream. **Molecular Ecology Resources** 16:1051-1058. pmid: [27454358](#) doi: [10.1111/1755-0998.12574](#).
51. 2016 S Hoffberg, TJ Kieran, JM Catchen, A Devault, **BC Faircloth**, R Mauricio, TC Glenn (2016). RADcap: sequence capture of dual-digest RADseq libraries with identifiable duplicates and reduced missing data. **Molecular Ecology Resources** 16:1264-1278. pmid: [27416967](#) doi: [10.1111/1755-0998.12566](#).
50. 2016 MG Harvey, BT Smith, TC Glenn, **BC Faircloth**, RT Brumfield. Sequence capture versus restriction site associated DNA sequencing for shallow systematics. **Systematic Biology** 65:910-924. pmid: [27288477](#) doi: [10.1093/sysbio/syw036](#).
49. 2016 RW Bryson Jr., **BC Faircloth**, WLE Tsai, JE McCormack, J Klicka. Target enrichment of thousands of ultraconserved elements sheds new light on early relationships within New World sparrows (Aves: Passerellidae). **Auk** 133:451-458. doi: [10.1642/AUK-16-26.1](#).
48. 2016 KA Meiklejohn, **BC Faircloth**, TC Glenn, RT Kimball, EL Braun. Analysis of a rapid evolutionary radiation using ultraconserved elements (UCEs): Evidence for a bias in some multi-species coalescent methods. **Systematic Biology** 65:612-627. pmid: [26865273](#) doi: [10.1093/sysbio/syw014](#).
47. 2016 MD McGee[†], **BC Faircloth**[†], SR Borstein, J Zheng*, CD Hulsey, PC Wainwright, ME Alfaro[†]. Replicated divergence in cichlid radiations mirrors a major vertebrate innovation. **Proceedings of the Royal Society B** 283: 20151413. pmid: [26763694](#) doi: [10.1098/rspb.2015.1413](#).
46. 2016 PA Hosner, **BC Faircloth**, TC Glenn, EL Braun, RT Kimball. Avoiding missing data biases in phylogenomic inference: An empirical study in the landfowl (Aves: Galliformes). **Molecular Biology and Evolution** 33:1110-1125. pmid: [26715628](#) doi: [10.1093/molbev/msv347](#).
45. 2016 **BC Faircloth**[†]. PHYLUCE is a software package for the analysis of conserved genomic loci. **Bioinformatics** 32:786-788. pmid: [26530724](#) doi: [10.1093/bioinformatics/btv646](#).
44. 2016 JE McCormack[†], WLE Tsai, **BC Faircloth**[†]. Sequence capture of ultraconserved elements from bird museum specimens. **Molecular Ecology Resources**. pmid: [26391430](#) doi: [10.1111/1755-0998.12466](#).
43. 2016 SV Edwards, Z Xi, A Janke, **BC Faircloth**, JE McCormack, TC Glenn, B Zhon, S Wu, EM Lemmon, AR Lemmon, AD Leache, L Liu, CC Davis. Implementing and testing the multispecies coalescent model: a valuable paradigm for phylogenomics. **Molecular Phylogenetics and Evolution** 94:447-462. pmid: [26518740](#) doi: [10.1016/j.ympev.2015.10.027](#).

42. 2015 A Barberan, KL McGuire, JA Wolf, FA Jones, SJ Wright, BL Turner, A Essene, SP Hubbell, **BC Faircloth**, N Fierer. Relating belowground microbial composition to the taxonomic, phylogenetic, and functional trait distributions of trees in a tropical forest. **Ecology Letters** 18:1397-1405. pmid: [26472095](#) doi: [10.1111/ele.12536](#).
41. 2015 CL Pruett, L Wan, T Li, C Sperrn, SL Lance, TC Glenn, **BC Faircloth**, K Winker. Development and characterization of microsatellite loci for common raven (*Corvus corax*) and cross species amplification in other Corvidae. **BMC Research Notes** 8:655. pmid: [26545581](#) doi: [10.1186/s13104-015-1643-5](#).
40. 2015 PS Gilbert, J Chang, C Pan, E Sobel, JS Sinsheimer, **BC Faircloth**, ME Alfaro. Genome-wide ultraconserved elements exhibit higher phylogenetic informativeness than traditional gene markers for the fish series Percomorpha. **Molecular Phylogenetics and Evolution** 92:140-146. pmid: [26079130](#) doi: [10.1016/j.ympev.2015.05.027](#).
39. 2015 ED Jarvis, S Mirarab, A Aberer, B Li, P Houde, C Li, SYW Ho, **BC Faircloth**, B Nabholz, JT Howard, A Suh, CC Weber, RR da Fonseca, A Alfaro-Núñez, N Narula, L Liu, D Burt, H Ellegren, SV Edwards, A Stamatakis, DP Mindell, J Cracraft, EL Braun, T Warnow, W Jun, MTP Gilbert, G Zhang, and The Avian Phylogenomics Consortium. Phylogenomic Analyses Data of the Avian Phylogenomics Project. **GigaScience** 4:4. pmid: [25741440](#) doi: [10.5524/101041](#).
38. 2015 NG Crawford, JF Parham, AB Sellas, **BC Faircloth**, TC Glenn, TJ Papenfuss, JB Henderson, MH Hansen, WB Simison. A phylogenomic analysis of turtles. **Molecular Ecology Resources** 83:250-257. pmid: [25450099](#) doi: [10.1016/j.ympev.2014.10.021](#). [MPE Editor's choice]
37. 2015 **BC Faircloth**[†], MG Branstetter, ND White, SG Brady. Target enrichment of ultraconserved elements from arthropods provides a genomic perspective on relationships among Hymenoptera. **Molecular Ecology Resources** 15:489-501. pmid: [25207863](#) doi: [10.1111/1755-0998.12328](#). [Mol Ecol Res 10 most accessed articles of 2014 & 2015]
36. 2014 ED Jarvis, S Mirarab, A Aberer, B Li, P Houde, C Li, SYW Ho, **BC Faircloth**, [94 others], T Warnow, W Jun, MTP Gilbert, G Zhang. Whole genome analyses resolve the early branches in the tree of life of modern birds. **Science** 346:1320-1331. pmid: [25504713](#) doi: [10.1126/science.1253451](#). [lead, UCE data analysis; co-authored 3 supplementary sections; Featured in *The Economist*, *Newsweek*, *The Guardian*, *Nature News*, *The Washington Post*, *NPR*, & others; Cited > 750 times]
35. 2014 RE Green, EL Braun, [49 others], **BC Faircloth**, FG Hoffman, TC Glenn, T Gabaldón, B Paten, DA Ray. Three crocodylian genomes reveal ancestral patterns of evolution among archosaurs. **Science** 346:1335 (extended version 1254449:1-9). pmid: [25504731](#) doi: [10.1126/science.1254449](#). [lead, UCE data analysis; co-authored 3 supplementary sections]

34. 2014 BT Smith, JE McCormack, AM Cuervo, MJ Hickerson, A Aleixo, CD Cadena, J Pérez-Emén, A Flórez-Rodríguez, CW Burney, X Xie, MG Harvey, **BC Faircloth**, TC Glenn, EP Derryberry, J Prejean, A Fields, RT Brumfield. The drivers of tropical speciation. **Nature** 515:406-409. pmid: [25209666](#) doi: [10.1038/nature13687](#).
33. 2014 AG Ramos, SO Nunziata, SL Lance, C Rodríguez, **BC Faircloth**, PA Gowaty, H Drummond. Habitat structure and colony structure constrain extrapair paternity in a colonial bird. **Animal Behavior** 95:121-127. doi: [10.1016/j.anbehav.2014.07.003](#).
32. 2014 AG Ramos, SO Nunziata, SL Lance, C Rodríguez, **BC Faircloth**, PA Gowaty, H Drummond. Interactive effects of male and female age on extra-pair paternity in a socially monogamous seabird. **Behavioral Ecology and Sociobiology** 68:1603-1609. doi: [10.1007/s00265-014-1769-9](#).
31. 2014 S Keping, Meiklejohn KA, **BC Faircloth**, Glenn TC, Braun EB, Kimball RT. The evolution of peafowl and other taxa with ocelli (eyespot): A phylogenomic approach. **Proceedings of the Royal Society B** 281: 20140823. pmid: [25030982](#) doi: [10.1098/rspb.2014.0823](#). [F1000 Recommended]
30. 2014 FC Gowen, JM Maley, C Cicero, AT Peterson, **BC Faircloth**, TC Warr, JE McCormack. Speciation in Western Scrub-Jays, Haldane's rule, and genetic clines in secondary contact. **BMC Evolutionary Biology** 14:135. pmid: [24938753](#) doi: [10.1186/1471-2148-14-135](#).
29. 2014 KA Meiklejohn, MJ Danielson, **BC Faircloth**, TC Glenn, EL Braun, RT Kimball. Incongruence among different mitochondrial regions: A case study using complete mitogenomes. **Molecular Phylogenetics and Evolution** 78:314-323. pmid: [24929245](#) doi: [10.1016/j.ympev.2014.06.003](#).
28. 2014 TC Glenn, SL Lance, AM McKee, BL Webster, AM Emery, A Zerlotini, G Oliveira, D Rollinson, **BC Faircloth**. Significant variance in genetic diversity among populations of *Schistosoma haematobium* detected using microsatellite DNA loci from a genome-wide database. **Parasites and Vectors** 6:300. pmid: [24499537](#) doi: [10.1186/1756-3305-6-300](#).
27. 2014 BT Smith, MG Harvey, **BC Faircloth**, TC Glenn, RT Brumfield. Target capture and massively parallel sequencing of ultraconserved elements (UCEs) for comparative studies at shallow evolutionary time scales. **Systematic Biology** 63:83-95. pmid: [24021724](#) doi: [10.1093/sysbio/syt061](#).
26. 2014 CL Pruett, C Whelan, A Ricono, SL Lance, TC Glenn, **BC Faircloth**, K Winker. Development and characterization of microsatellite loci for two species of Beringian birds, rock sandpiper (*Calidris ptilocnemis*) and Pacific wren (*Troglodytes pacificus*). **Conservation Genetics Resources** 6:175-177. doi: [10.1007/s12686-013-0040-4](#).

25. 2013 **BC Faircloth**^{†‡}, **L Sorenson**, F Santini, ME Alfaro[‡]. A phylogenomic perspective on the radiation of ray-finned fishes based upon targeted sequencing of ultraconserved elements. **PLoS ONE** 8:e65923. pmid: [23824177](#) doi: [10.1371/journal.pone.0065923](#).
24. 2013 JE McCormack, MG Harvey, **BC Faircloth**, NG Crawford, TC Glenn, RT Brumfield. A phylogeny of birds based on over 1,500 loci collected by target enrichment and high-throughput sequencing. **PLoS ONE** 8:e54848. pmid: [23382987](#) doi: [10.1371/journal.pone.0054848](#).
23. 2013 JE McCormack, **BC Faircloth**. Next-generation phylogenetics takes root. **Molecular Ecology** 22:19-21. pmid: [23383410](#) doi: [10.1111/mec.12050](#).
22. 2012 **BC Faircloth**[†], TC Glenn. Not all sequence tags are created equal: Designing and validating sequence identification tags robust to indels. **PLoS ONE** 7:e42543. pmid: [22900027](#) doi: [10.1371/journal.pone.0042543](#).
21. 2012 A Untergasser, I Cutcutache, T Koressaar, J Ye, **BC Faircloth**, M Remm, S Rozen. Primer3 - New capabilities and interfaces. **Nucleic Acids Research** 40:e115. pmid: [22730293](#) doi: [10.1093/nar/gks596](#). [*Nucleic Acids Res* Featured Article; Cited > 3,000 times]
20. 2012 NG Crawford, **BC Faircloth**, JE McCormack, RT Brumfield, K Winker, TC Glenn. More than 1000 ultraconserved elements provide evidence that turtles are the sister group of archosaurs. **Biology Letters** 8:783-786. pmid: [22593086](#) doi: [10.1098/rsbl.2012.0331](#). [Featured in *Nature* 486:460-462 & *Science* 342:26-27; *Biology Letters* Top 10 Downloaded & Cited of 2012]
19. 2012 JA St. John, EL Braun, SR Isberg, LG Miles, AY Chong, J Gongora, P Dalzell, C Moran, T Iguchi, B Bed'Hom, SC Burgess, AM Cooksey, TA Castoe, A Abzhanov, LD Densmore, M Venegas-Anya, MJ Greenwold, RH Sawyer, FG Hoffmann, NG Crawford, JC Drew, SV Edwards, MK Fujita, JM Howard, **BC Faircloth**, DE Janes, S Yar Khan, Si Kohno, APJ de Koning, SL Lance, FM McCarthy, JE McCormack, ME Merchant, DG Peterson, DD Pollock, N Pourmand, BJ Raney, KA Roessler, JR Sanford, CJ Schmidt, EW Triplett, TD Tuberville, ED Jarvis, LJ Guillette Jr, TC Glenn, RE Green, DA Ray. Sequencing three crocodylian genomes to illuminate the evolution of archosaurs and amniotes. **Genome Biology** 13:415-427. pmid: [22293439](#) doi: [10.1186/gb-2012-13-1-415](#). [*Genome Biology* Editor's Pick]
18. 2012 **BC Faircloth**[†], JE McCormack, NG Crawford, MG Harvey, RT Brumfield, TC Glenn. Ultraconserved elements anchor thousands of genetic markers for target enrichment spanning multiple evolutionary timescales. **Systematic Biology** 61:717-726. pmid: [22232343](#) doi: [10.1093/sysbio/SYS004](#). [Featured in *Science* 342:26-27 & *BioTechniques* 55:175-177; Cited > 250 times]
17. 2012 JE McCormack, **BC Faircloth**[†], NG Crawford, PA Gowaty, RT Brumfield, TC Glenn. Ultraconserved elements are novel phylogenomic markers that resolve placental mammal phylogeny when combined with species tree analysis. **Genome Research** 26:746-754. pmid: [22207614](#) doi: [10.1101/gr.125864.111](#). [F1000 Recommended]

16. 2011 K Kusumi, RJ Kulathinal, A Abzhanov, S Boissinot, NG Crawford, **BC Faircloth**, TC Glenn, DE Janes, JB Losos, DB Menke, S Poe, TJ Sanger, C Schneider, J Stapley, J Wade, J Wilson-Rawls. Developing a community-based genetic nomenclature for anole lizards. **BMC Genomics** 12:554-567. pmid: [22077994](#) doi: [10.1186/1471-2164-12-554](#).
15. 2010 **BC Faircloth**[†], [A Title](#), [K Tan](#), J Welty, JR Belthoff, PA Gowaty. Eighteen microsatellite loci developed from western burrowing owls (*Athene cunicularia hypugaea*). **Conservation Genetics Resources** 2:167-171. doi: [10.1007/s12686-010-9214-5](#).
14. 2010 TM Terhune, DC Sisson, WE Palmer, **BC Faircloth**, HL Stribling, JP Carroll. Translocation to a fragmented landscape: survival, movement and site fidelity of Northern Bobwhites. **Ecological Applications** 20:1040-1052. pmid: [20597288](#) doi: [10.1890/09-1106.1](#).
13. 2009 **BC Faircloth**[†], [A Ramos](#), H Drummond, PA Gowaty. Isolation and characterization of microsatellite loci from blue-footed boobies (*Sula nebouxi*). **Conservations Genetics Resources** 1:159-162. doi: [10.1007/s12686-009-9038-3](#).
12. 2009 JS Skvarla, **BC Faircloth**, [BM Shamblin](#), MJ Conroy. Microsatellite loci from the black bear (*Ursus americanus*). **Molecular Ecology Resources** 9:288-291. pmid: [21564629](#) doi: [10.1111/j.1755-0998.2008.02234.x](#).
11. 2009 KO Evans, LW Burger Jr., **BC Faircloth**, WE Palmer, JP Carroll. Effects of tissue collection methods on morphometrics and survival of captive neonatal Northern Bobwhite. **Journal of Wildlife Management** 73:1241-1244. doi: [10.2193/2008-011](#).
10. 2009 [BM Shamblin](#), **BC Faircloth**, MG Dodd, DA Bagley, LM Erhart, PH Dutton, A Frey, CJ Nairn. Tetranucleotide markers from the loggerhead sea turtle (*Caretta caretta*) and their cross-amplification in other marine turtle species. **Conservation Genetics** 10:577-580. doi: [10.1007/s10592-008-9573-6](#).
9. 2009 **BC Faircloth**[†], [TM Terhune](#), NA Schable, TC Glenn, WE Palmer, JP Carroll. Ten microsatellite loci from Northern Bobwhite (*Colinus virginianus*). **Conservations Genetics** 10:535-538. doi: [10.1007/s10592-008-9559-4](#).
8. 2008 [BM Shamblin](#), **BC Faircloth**, SA Josserand, CD Nelson, CJ Nairn. Microsatellite loci from the eastern hemlock (*Tsuga canadensis*). **Molecular Ecology Resources** 8:1354-1356. pmid: [21586044](#) doi: [10.1111/j.1755-0998.2008.02274.x](#).
7. 2008 **BC Faircloth**. MSATCOMMANDER: detection of microsatellite repeat arrays and automated, locus-specific primer design. **Molecular Ecology Resources** 8:92-94. pmid: [21585724](#) doi: [10.1111/j.1471-8286.2007.01884.x](#). [Cited > 750 times]
6. 2007 [BM Shamblin](#), **BC Faircloth**, M Dodd, A Wood-Jones, SB Castleberry, JP Carroll, CJ Nairn. Tetranucleotide microsatellites from the loggerhead sea turtle (*Caretta caretta*). **Molecular Ecology Notes** 7:784-787. doi: [10.1111/j.1471-8286.2007.01701.x](#).

5. 2006 **BC Faircloth**. GMCONVERT: file conversion for GeneMapper™ output files. **Molecular Ecology Notes** 6:968-970. doi: [10.1111/j.1471-8286.2006.01419.x](https://doi.org/10.1111/j.1471-8286.2006.01419.x).
4. 2006 **BC Faircloth**[†], [GP Keller](#), CJ Nairn, WE Palmer, JP Carroll, PA Gowaty. Microsatellite loci from the Eastern Bluebird (*Sialia sialis*). **Molecular Ecology Notes** 6:646-649. doi: [10.1111/j.1471-8286.2006.01408.x](https://doi.org/10.1111/j.1471-8286.2006.01408.x).
3. 2005 **BC Faircloth**[†], [A Reid](#), T Valentine, SH Eo, TM Terhune, TC Glenn, WE Palmer, CJ Nairn, JP Carroll. Tetranucleotide, trinucleotide, and dinucleotide microsatellite loci from the bobcat (*Lynx rufus*). **Molecular Ecology Notes** 5:387-389. doi: [10.1111/j.1471-8286.2005.00936.x](https://doi.org/10.1111/j.1471-8286.2005.00936.x).
2. 2005 **BC Faircloth**[†], WE Palmer, JP Carroll. Post-hatching brood amalgamation in Northern Bobwhites. **Journal of Field Ornithology** 76:175-182. [pdf](#).
1. 2004 NA Schable, **BC Faircloth**, WE Palmer, JP Carroll, LW Burger, LA Brennan, C Hagen, TC Glenn. Tetranucleotide and dinucleotide loci from northern bobwhite (*Colinus virginianus*). **Molecular Ecology Notes** 4:415-419. doi: [10.1111/j.1471-8286.2004.00670.x](https://doi.org/10.1111/j.1471-8286.2004.00670.x).

Manuscripts Under Review / In Revision / Accepted

- R8. Review **BC Faircloth**[†], F Alda, K Hoekzma, MD Burns, C Oliveira, JS Albert, BF Melo, LE Ochoa, FF Roxo, P Chakrabarty, BL Sidlauskas, ME Alfaro. A target enrichment bait set for studying relationships among ostariophysan fishes. **Methods in Ecology and Evolution**. bioRxiv: [10.1101/432583](https://doi.org/10.1101/432583).
- R7. Review [CH Oliveros](#)[†], DJ Field, DT Ksepka, FK Barker, A Aleixo, MJ Andersen, P Alström, BW Benz, EL Braun, MJ Braun, GA Bravo, RT Brumfield, RT Chesser, S Claramunt, J Cracraft, AM Cuervo, EP Derryberry, TC Glenn, MG Harvey, PA Hosner, L Joseph, R Kimball, AL Mack, CM Miskelly, AT Peterson, MB Robbins, FH Sheldon, LF Silveira, BT Smith, ND White, RG Moyle, **BC Faircloth**[†]. Earth history and the passerine superradiation. **Proceedings of the National Academy of Sciences U S A**.
- R6. Accepted G Friss, G Fandos, A Zellmer, JE McCormack, **BC Faircloth**, B Milá. Genome-wide signals of drift and local adaptation during rapid lineage divergence in a songbird. **Molecular Ecology**. bioRxiv: [10.1101/243766](https://doi.org/10.1101/243766).
- R5. Accepted F Alda, V Tagliacollo, M Bernt, B Waltz, W Ludt, **BC Faircloth**, ME Alfaro, J Albert, P Chakrabarty. Resolving deep nodes in an ancient radiation of neotropical fishes in the presence of conflicting signals from incomplete lineage sorting. **Systematic Biology**.
- R4. Review K Winker, TC Glenn, Jack Withrow, SG Sealy, **BC Faircloth**. Speciation despite gene flow in two owls (*Aegolius* spp.): Evidence from 2,517 loci with ultraconserved elements (UCEs). **Auk**.

- R3. Revision TC Glenn, NJ Bayona-Vasquez, TJ Kieran, TW Pierson, SL Hoffberg, PA Scott, KE Bentley, JW Finger Jr., PR Watson, S Louha, N Troendle, P Diaz-Jaimes, R Mauricio, **BC Faircloth**. Adapterama III: Quadruple-indexed, triple-enzyme RADseq libraries for about \$1USD per Sample (3RAD). **PeerJ**. bioRxiv: [10.1101/205799](https://doi.org/10.1101/205799).
- R2. Revision MR Pie, MR Bornschein, LF Ribiero, **BC Faircloth**, JE McCormack. Phylogenomic species delimitation in microendemic frogs of the Brazilian Atlantic Forest. **Molecular Ecology**. bioRxiv: [10.1101/143735](https://doi.org/10.1101/143735).
- R1. Revision TC Glenn, RA Nilsen, TJ Kieran, JW Finger Jr., TW Pierson, KE Bentley, SL Hoffberg, S Louha, FJ García-De León, MA Del Rio Portilla, KD Reed, JL Anderson, JK Meece, SE Aggrey, R Rekaya, M Alabady, M Belanger, K Winker, **BC Faircloth**[†]. Adapterama I: Universal stubs and primers for thousands of dual-indexed Illumina libraries (iTru & iNext). **PeerJ**. bioRxiv: [10.1101/049114](https://doi.org/10.1101/049114).

Book Chapters

- B2. 2017 McCormack JE, F Rodriguez-Gomez, WLE Tsai, **BC Faircloth**. Turning older museum specimens into genomic resources with next-generation sequencing. Chapter 9 in *The Role of Collections in Ornithology: The Extended Specimen (Studies in Avian Biology)*. MS Webster (ed). University of California Press, Oakland, CA. doi: [10.1201/9781315120454](https://doi.org/10.1201/9781315120454).
- B1. 2016 K Heyduk, D Stephens, **BC Faircloth**, TC Glenn. Counseling for targeted DNA region re-sequencing. Pages 43-68 in *Field Guidelines for Experimental Genetic Designs in High-Throughput Sequencing*. AM Aransay, JLL Trueba (eds). Springer, Switzerland. doi: [10.1007/978-3-319-31350-4_3](https://doi.org/10.1007/978-3-319-31350-4_3).

Pre-print/Other manuscripts

- 2012 **BC Faircloth**, J Chang, ME Alfaro. TAPIR enables high-throughput estimation and comparison of phylogenetic informativeness using locus-specific substitution models. arXiv: [1202.1215](https://arxiv.org/abs/1202.1215)
- 2010 S Castrezana, **BC Faircloth**, PA Gowaty. *Drosophila* collection in Los Angeles, California. *Drosophila Information Service* 93:91-93. [pdf](#).

Edited volumes

- 2009 Proceedings of Gamebird 2006: A Joint Conference of Quail VI and Perdix XII. SB Cederbaum, **BC Faircloth**, TM Terhune, JP Carroll (eds). ISBN 0-9703886-2-4. <http://gamebird.forestry.uga.edu/quailvi/>

Dissertation

- 2008 An integrative study of social and reproductive systems in Northern Bobwhite. Univ. of Georgia. Committee: JP Carroll (Chair), WE Palmer, PA Gowaty, TC Glenn, PD Schliekelman, JFD Dean.

Grants & contracts (†NSF-DEB limited co-PI status to 2 proposals)

- 2018-2021 National Science Foundation. IOS-1754417. Collaborative Research: Enhancers and the convergent evolution of limb reduction in squamates. **BC Faircloth** (PI). \$212,169. Collaborative with C Infante, D Menke, TC Glenn. Total budget: \$1,348,630.
- 2017-2021 National Science Foundation. DEB-1655624. Collaborative Research: All Birds: A time-scaled avian tree from integrated phylogenomic and fossil data. **BC Faircloth** (PI), RT Brumfield. \$565,686. Collaborative with BT Smith, KE Barker, EL Braun, RT Kimball, D Kspeka, T Chesser. Total budget: \$1,421,651.
- 2012-2017 National Science Foundation. DEB-1136626. Dimensions: Testing the potential of pathogenic fungi to control the diversity, distribution, and abundance of tree species in a Neotropical forest community. SP Hubbell, **BC Faircloth** (co-PI), GS Gilbert, TC Glenn, MA Saunders. \$1,941,923.
- 2012-2017 National Science Foundation. DEB-1146440. Collaborative Research: Genealogical reconstruction, foliar chemistry, and community dynamics in a Neotropical rain forest landscape. SP Hubbell, **BC Faircloth** (co-PI). \$229,942. Collaborative with JP Kellner, GP Asner. Total budget: \$400,000.
- 2012-2013 National Science Foundation. DEB-1242267. EAGER - Collaborative Research: Using ultraconserved elements (UCEs) as genomic markers to study shallow levels of evolutionary divergence. **BC Faircloth** (PI) \$21,180. Collaborative grant with K Winker and TC Glenn. Total budget: \$42,740.
- 2012-2013 National Science Foundation. DEB-1221196. EAGER - RUI: The genomic architecture of speciation in a classic avian hybrid zone. JE McCormack, C Cicero, **BC Faircloth** (senior personnel[†]; co-author). \$50,000.
- 2012-2013 Smithsonian Institution. Consortium for Understanding and Sustaining a Biodiverse Planet. Building the framework of biodiversity science: Next generation phylogenetics. MJ Braun, K Wurdack, W Wcislo, J Maldonado, K Helgen, S Brady, M Cummings, TC Glenn, **BC Faircloth** (senior personnel; co-author), RT Brumfield, E Braun, JC McCormack, NG Crawford, N White. \$100,000.

- 2011-2013 Amazon Web Services in Education Research Grant. The utility of conserved exons as genetic markers. **BC Faircloth** (PI; author), NG Crawford, JE McCormack. \$10,000.
- 2011 Smithsonian Institution. Next-generation Sequencing Small Grant. Phylogenetic utility of ultra-conserved elements for the avian tree of life. MJ Braun, ND White, TC Glenn, **BC Faircloth** (senior personnel; co-author), RT Brumfield, EL Braun, JE McCormack, NG Crawford. \$10,000.
- 2010 Amazon Web Services in Education Research Grant. Species tree prediction in the cloud. NG Crawford, **BC Faircloth** (co-PI; co-author), TC Glenn. \$7,500.
- 2009 Smithsonian Institution. Scholarly Studies Program. Distribution, abundance, and species composition of fine roots in relation to soil nutrients in a neotropical tree community. SP Hubbell, **BC Faircloth** (equivalent to co-PI; co-author). \$57,900.
- 2009 UC MEXUS-CONACYT. Collaborative Research Grant. Mhc variation in Blue-footed Boobies, *Sula nebouxii*. PA Gowaty, HM Drummond, **BC Faircloth** (equivalent to co-PI; co-author). \$25,000.
- 2006 University of Georgia. Dissertation Completion Grant. An integrative study of social and reproductive systems in Northern Bobwhite (*Colinus virginianus*): a non-migratory, avian species bearing precocial young. **BC Faircloth**. \$15,600.
- 2006 Georgia Ornithological Society. Bill Terrell Grant. Effects of translocation on avian population genetics and demographics within a fragmented landscape. TM Terhune and **BC Faircloth** (author). \$2,980.
- 2005 Florida Fish and Wildlife Conservation Commission. Ecology of the snake community of the Red Hills Region relative to management for northern bobwhite: assessing the diet choices of snakes using stable isotopes. A Fisk, JP Carroll, WE Palmer, **BC Faircloth** (co-author), KJ Sash. \$9,660.
- Awards & fellowships to students (\$500 and greater; trainees underlined)
- 2018 Society of Systematic Biology. Can ultraconserved elements (UCEs) resolve the phylogeny of Caenogastropoda freshwater snails? Penny Lampri. \$2,000.
- 2018 Society of Systematic Biology. Genomic Architecture Of An Amazonian Hybrid Zone. Graduate Student Research Award. Glaucia Del Rio. \$2,000.
- 2018 Wilson Ornithological Society. Testing the influence of gene flow in montane speciation. Research Grant. Anna Hiller. \$1,500.
- 2018 American Society of Naturalists. Are mountains really higher in the tropics? ASN Research Award. Anna Hiller. \$2,000.

- 2018 Society for the Study of Evolution. Testing the influence of gene flow in montane speciation. Graduate Research Excellence Grant (GREG) - R.C. Lewontin Early Award. Anna Hiller. \$2,000.
- 2018 National Science Foundation. Testing the influence of gene flow in montane speciation. Graduate Research Fellowship. Anna Hiller. \$132,000.
- 2018 American Museum of Natural History. Genomics of speciation in Amazonian birds. Chapman Grant. Glaucia Del Rio. \$2,000.
- 2017 Scientific Exploration Society. Emilie Snethlage expedition: Women exploring remote areas in the Amazon Forest. Sir Charles Blois Explorer Award. Glaucia Del Rio. \$7,100.
- 2017 Society of Systematic Biology. Population genomics of a phenotypically hyperdiverse quail. Graduate Student Research Award. Jessie Salter. \$1,700.
- 2017 Society of Systematic Biology. Testing the influence of gene flow in montane speciation. Graduate Student Research Award. Anna Hiller. \$1,700.
- 2017 LSU Alumni Association. Genomics of speciation in Amazonian birds. LSU Alumni Association International Student Scholarships. Glaucia Del Rio. \$2,500.
- 2017 American Association of University Women. Genomics of speciation in Amazonian birds. American Association of University Women International Student Fellowship. Glaucia Del Rio. \$20,000.
- 2017 National Science Foundation. Elucidating the drivers of speciation in North American birds. Graduate Research Fellowship. Jessie Salter. *Honorable Mention*.
- 2017 Louisiana Board of Regents. Board of Regents Fellowship. Anna Hiller. \$120,000.
- 2017 American Museum of Natural History. Population genomics of a phenotypically hyperdiverse quail. Chapman Grant. Jessie Salter. \$1,200.
- 2016 Society for the Study of Evolution. Evolution 2016 meeting in Austin, TX. Graduate Student Travel Award. Jessie Salter. \$500.

Presentations

Invited Seminars

- 2017 Field Museum of Natural History, Chicago, IL, USA. 29 November.
- 2017 Dept. of Biological and Environ. Sciences. University of Gothenburg, Sweden. 6 September.
- 2017 Harrison Lecture. EvoDay at Cornell University. 11 May.

- 2017 Department of Biology. University of Louisiana at Lafayette. 16 February.
- 2016 Comparative Biology Seminar. American Museum of Natural History. 7 November.
- 2016 Department of Biology. Texas Tech University. 5 October.
- 2016 Département de Biologie, Ecole Normale Supérieure, Paris, France. 20 May.
- 2016 Field Museum of Natural History, Chicago, IL, USA. 4 May.
- 2016 Dept. of Biology, University of New Mexico, Albuquerque, NM, USA. 24 March.
- 2016 Dept. of Biology, SE Louisiana University, Hammond, LA, USA. 10 March.
- 2015 Ecology & Evolutionary Biology, University of Tennessee, Knoxville, TN, USA. 25 October.
- 2014 Biodiversity Institute, University of Kansas, Lawrence, KS, USA. 20 October.
- 2014 Museum of Natural Science, LSU, Baton Rouge, LA, USA. 19 October.
- 2014 Computational Biology Seminar for Undergrads, LSU, Baton Rouge, LA, USA. 17 October.
- 2014 Dept. of Biological Sciences, LSU, Baton Rouge, LA, USA. 20 March.
- 2014 Dept. of Biological Sciences, Clemson University, Clemson, SC, USA. 25 February.
- 2014 Dept. of Biological Sciences, Auburn University, Auburn, AL, USA. 20 February.
- 2013 Dept. of Biology and Wildlife, University of Alaska, Fairbanks, AK, USA. 6 December.
- 2013 Dept. of Biology, University of Washington, Seattle, WA, USA. 4 March.
- 2013 Dept. of Biological Sciences, University of Alabama, Tuscaloosa, AL, USA. 12 February.
- 2012 National Museum of Natural History, Smithsonian, Washington D.C., USA. 19 January.
- 2012 Dept. of Biological Sciences, GWU, Washington D.C., USA. 26 March.
- 2008 Tall Timbers Research Station - Stoddard Lecture, Tallahassee, FL, USA. 23 October.

Invited Conference Presentations

- 2018 **BC Faircloth.** Enriching our way towards an understanding vertebrate regulatory region evolution. 31 October - 1 November. Florida Genetics Symposium, Gainesville, FL, USA.
- 2016 **BC Faircloth.** What factors maintain commonness and rarity in tropical forests? 7-11 August. Mycological Society of America. Berkeley, CA, USA.
- 2015 **BC Faircloth,** TC Glenn. Adapterama II: Sequence capture and analysis of massively multiplexed libraries. 28-31 March. Association of Biomolecular Resource Facilities. St. Louis, MO, USA.
- 2014 **BC Faircloth.** Are conserved elements a universal source of genomic information in insects? 16 November. Entomological Society of America, Portland, OR, USA.
- 2014 **BC Faircloth.** The chicken, the finch, and the lizard - three genome assemblies that enabled a revolution in the study of non-model taxa. 6 March. Avian Model Systems, Cold Spring Harbor, NY, USA.
- 2013 **BC Faircloth.** Using next-generation molecular techniques to achieve phylogenomic nirvana. 21 June. Society of Systematic Biologists Phylogenetics Workshop (at Evolution 2013), Snowbird, UT, USA.

- 2013 **BC Faircloth.** Achieving phylogenomic nirvana: ultraconserved elements (UCEs) capture history at the species, population, and individual levels. 20 May. Frontiers in Phylogenetics Spring Symposium, National Museum of Natural History, Smithsonian Institution, Washington D.C., USA.
- 2013 **BC Faircloth.** UCE capture from DNA libraries with complex tagging designs. 8 April. UGA Institute of Bioinformatics Spring Symposium, Athens, GA, USA.
- 2006 **BC Faircloth,** TM Terhune, SH Eo, JP Carroll. Genetic techniques and the study of neotropical quails: from sample collection to data analysis. 8 October. Neotropical Quail: Status, Conservation, and Research, Veracruz, Mexico.
- Conference Presentations (previous 4 years)*
- 2018 JR Glass, RC Harrington, **BC Faircloth,** TJ Near. Phylogenomics of carangiform evolution using ultraconserved elements. Joint Meeting of Ichthyologists and Herpetologists, 11-15 July, Rochester, NY, USA.
- 2018 RC Harrington, TJ Near, **BC Faircloth,** M Friedman. Swimming in data: Addressing Pelagaria relationships with phylogenomic datasets. Joint Meeting of Ichthyologists and Herpetologists, 11-15 July, Rochester, NY, USA.
- 2018 T McCraney, J Buckner, C Thacker, **BC Faircloth,** ME Alfaro. Phylogenomic systematics of Gobiiformes: Small fishes show some backbone. Joint Meeting of Ichthyologists and Herpetologists, 11-15 July, Rochester, NY, USA.
- 2018 B Sidlauskas, C Dillman, K Hoekzema, B Melo, ME Alfaro, M Burns, B Frable, C Oliveira, M Sabaj, **BC Faircloth.** Vari's legacy in the light of a molecular phylogeny for Anostomoidea. Joint Meeting of Ichthyologists and Herpetologists, 11-15 July, Rochester, NY, USA
- 2018 B Melo, M Stiassny, J Arroyave, F Roxo, R Benine, L Ochoa, B Sidlauskas, **BC Faircloth,** ME Alfaro, C Oliveira. Phylogenomics and the timing of diversification in Characiformes (Teleostei, Ostariophysi). Joint Meeting of Ichthyologists and Herpetologists, 11-15 July, Rochester, NY, USA.
- 2018 CH Oliveros, DJ Field, DT Ksepka, FK Barker, RG Moyle, **BC Faircloth.** Phylogeny of all passerine families reveal a diversification history tied to Cenozoic global climate. American Ornithological Society Conference, 9-14 April, Tucson, AZ, USA.
- 2018 NT Vinciguerra, WL Tsai, **BC Faircloth** JE McCormack. Genomic and ecomorphological divergence across an avian hybrid zone. American Ornithological Society Conference, 9-14 April, Tucson, AZ, USA.
- 2017 **BC Faircloth.** Explosive diversification of marine fishes at K-Pg boundary. Indo-Pacific Fish Conference, 2-6 October, Papeete, Tahiti, French Polynesia.

- 2017 A Hiller, RT Brumfield, **BC Faircloth**. Knowns and unknowns in the origin of leapfrog variation in Andean birds. American Ornithological Society Conference, 31 July - 5 August, East Lansing, MI, USA.
- 2017 JF Salter, PA Hosner, EL Braun, RT Kimball, **BC Faircloth**. Slow markers and fast birds: a subspecific phylogeny of the New World Quail using thousands of UCE loci. American Ornithological Society 2017, 31 July - 5 August, East Lansing, MI, USA.
- 2016 J Salter, CH Oliveros, **BC Faircloth**. The evolution of bilateral ear asymmetry among Typical Owls (Strigidae). North American Ornithological Congress, 16-20 August, Washington D.C., USA.
- 2016 CH Oliveros, RG Moyle, M Andersen, PA Hosner, B Benz, JD Manthey, S Travers, R Brown, **BC Faircloth**. Tectonic collision and uplift of Wallacea triggered the global songbird radiation. North American Ornithological Congress, 16-20 August, Washington D.C., USA.
- 2016 E Zarza, **BC Faircloth**, WLE Tsai, R Bryson, J Klicka, JE McCormack. Testing for hidden histories of gene flow in highland birds using genomic markers. North American Ornithological Congress, 16-20 August, Washington D.C., USA.
- 2016 K Winker, **BC Faircloth**, TC Glenn. Ultraconserved elements (UCEs) illuminate the population genomics of a recent, high-latitude speciation event. North American Ornithological Congress, 16-20 August, Washington D.C., USA.
- 2016 **BC Faircloth**. Able was I ere I saw assembly errors. *Evolution*, 17-21 June, Austin, TX, USA.
- 2016 J Salter, CH Oliveros, JD Manthey, PA Hosner, MB Robbins, RG Moyle, **BC Faircloth**. A phylogenomic hypothesis of relationships among Typical Owls (Strigidae). *Evolution*, 17-21 June, Austin, TX, USA.
- 2016 CH Oliveros, RG Moyle, M Andersen, PA Hosner, B Benz, JD Manthey, S Travers, R Brown, **BC Faircloth**. Tectonic collision and uplift of Wallacea triggered the global songbird radiation. *Evolution*, 17-21 June, Austin, TX, USA.
- 2016 JE McCormack, E Zarza, **BC Faircloth**, WLE Tsai, R Bryson, J Klicka. Testing for hidden histories of gene flow in highland birds using genomic markers. *Evolution*, 17-21 June, Austin, TX, USA.
- 2016 NB Vasquez, S Hoffberg, **BC Faircloth**, TC Glenn. How to process 1,500 RADseq samples in a week for \$6/sample. *Evolution*, 17-21 June, Austin, TX, USA.
- 2016 S Hoffberg, TC Glenn, J Catchen, **BC Faircloth**, R Mauricio. RADcap: Sequence capture of dual-digest RADseq libraries with identifiable duplicates. *Evolution*, 17-21 June, Austin, TX, USA.

- 2016 R Platt, **BC Faircloth**, K Sullivan, TC Glenn, T Kieran, R Stevens, R Baker, D Ray. Resolution of New World *Myotis* using phylogenomic methods produces novel topologies. *Evolution*, 17-21 June, Austin, TX, USA.
- 2016 B Sidlauskas, ME Alfaro, M Burns, C Dillman, **BC Faircloth**, B Frable, K Hoekzema, B Melo, M Perez, C Oliveira, R Vari. Molecular phylogenetics, morphometrics and osteology reveal convergences and shifts in the mode of diversification within Neotropical headstanding fishes (Characiformes: Anostomoidea). Society of Integrative and Comparative Biology, 3-7 January, Portland, OR, USA.
- 2015 MJ Braun, ND White, EL Braun, **BC Faircloth**. Resolving the Avian Tree of Life using Ultraconserved Elements. Neotropical Ornithological Congress, 19-24 July, Manaus, Brazil.
- 2015 ND White, MJ Braun, EL Braun, **BC Faircloth**. Resolving the Avian Tree of Life using Ultraconserved Elements. *Evolution*, 26-30 June, Guarujá, Brazil.
- 2015 M Pie, **BC Faircloth**, JE McCormack. Exploring the gene tree space using phylogenomic data on co-distributed montane frogs of the Brazilian Atlantic Forest. *Evolution*, 26-30 June, Guarujá, Brazil.
- 2014 E Braun, **BC Faircloth**, K Meiklejohn, R Kimball, BC Faircloth, TC Glenn. Species tree methods and ultraconserved elements (UCEs): a case study in galliform birds. *Evolution* 2014, 20-24 June, Raleigh, NC, USA.
- 2014 TC Glenn, **BC Faircloth**, T Kieran, T Pierson, J Finger. Adapterama @ BadDNA.org - DNA sequencing sample prep for Illumina instruments made easy (amplicons, RADseq, sequence capture & genomes). *Evolution* 2014, 20-24 June, Raleigh, NC, USA.
- 2014 R Kimball, K Sun, K Meiklejohn, E Braun, **BC Faircloth**, TC Glenn. Testing Darwin's hypothesis on the evolution of ornamental eyespots in peafowl and their relatives. *Evolution* 2014, 20-24 June, Raleigh, NC, USA.
- 2014 M Pie, MR Bornschein, LF Ribeiro, **BC Faircloth**, JE McCormack. Target Enrichment of Ultraconserved Elements in Sky Island Frogs of the Brazilian Atlantic Rainforest. *Evolution* 2014, 20-24 June, Raleigh, NC, USA.
- 2014 D Ray, RE Green, B Paten, T Glenn, E Braun, **BC Faircloth**, F Hoffman, T Gabaldon, F McCarthy, C Schmidt, M Fujita, J Opazo, A Smit. Tick-tock goes the croc: Three genome drafts indicate slow molecular evolution in crocodylians and provide insight into archosaur evolution. *Evolution* 2014, 20-24 June, Raleigh, NC, USA.

- 2014 B Sidlauskas, ME Alfaro, M Burns, C Dillman, **BC Faircloth**, B Frable, K Hoekzema, B Melo, C Oliveria, R Vari. Ultraconserved elements yield new insights into the exceptional morphological radiation of neotropical headstanding fishes. *Evolution* 2014, 20-24 June, Raleigh, NC, USA.
- 2014 N Vinciguerra, **BC Faircloth**, JE McCormack. The utility of target capture and high-throughput sequencing of ultraconserved elements across an avian hybrid zone. *Evolution* 2014, 20-24 June, Raleigh, NC, USA.
- 2014 ND White, **BC Faircloth**, ME Braun. The use of ultra-conserved elements in resolving night-bird (caprimulgiformes) phylogeny. *Evolution* 2014, 20-24 June, Raleigh, NC, USA.

Teaching

Courses

- 2018 Fall | BIOL 7800 Computer Programming for Biologists, 100% (11 students)
- 2018 Spring | BIOL 3040 Evolution, 100% (89 students)
- 2017 Spring | BIOL 3040 Evolution, 100% (100 students)
- 2016 Fall | BIOL 3040 Evolution, 100% (71 students)
- 2016 Spring | BIOL 7800 Computer Programming for Biologists, 100% (17 students)
- 2015 Fall | BIOL 3040 Evolution, 100% (57 students)
- 2015 Spring | BIOL 3040 Evolution, 100% (30 students)
- 2006 Fall | FORS 1100 Natural Resource Conservation, 40%
- 2005 Fall | FORS 8300 Open-source Computing, 20%
- 2005 Spring | FORS 5250/7250 Intl. Wildlife Conservation, 30%
- 2004 Spring | FORS 3000 Field Measurements, 15%
- 2004 Spring | FORS 5770/7770 Wildlife Population Dynamics (Teaching Asst.)

Workshops

- 2017 Alaska INBRE Next-Generation DNA Sequencing and Sequence Analysis Workshop, May 15 - 19, Anchorage, AK, USA.
- 2015 Alaska INBRE Next-Generation DNA Sequencing and Sequence Analysis Workshop, July 27 - August 7, Fairbanks, AK, USA.
- 2014 Achieving phylogenomic nirvana, 2-10 November, Universidade Federal De São Paulo, São Paulo, Brazil.
- 2014 RAD-seq for population genetic and phylogenomic analyses, 21-27 October, Universidad Nacional Autónoma de México, Mexico City, Mexico.
- 2014 UCLA La Kretz Workshop in Conservation Genomics, 22-26 March, UCLA La Kretz Field Station, Santa Monica Mountains National Recreation Area, Malibu, CA, USA.

- 2014 Enrichment, sequencing, and analysis of ultraconserved elements. 20-31 January, Smithsonian Tropical Research Institute, Naos, Panama.
- 2013 Next generation data and analyses for phylogeography and phylogenetics. 25-29 November. Centro Atómico Bariloche, Bariloche, Argentina.
- 2013 Integration of molecular and field approaches to ecology. 7-26 July. Smithsonian Tropical Research Institute, Gamboa, Panama.
- 2013 Next-generation DNA sequencing. 15-17 May. University of Alaska, Fairbanks, AK, USA.
- 2013 Demuxipy, Splitaake, & Phyluce. 8 April. UGA Institute of Bioinformatics Spring Symposium, Athens, GA, USA.
- 2013 UCLA La Kretz Workshop in Conservation Genomics, 23-28 March, UCLA La Kretz Field Station, Santa Monica Mountains National Recreation Area, Malibu, CA, USA
- 2012 Sequence Capture for Next-generation Phylogenomics, 16-20 January, Smithsonian Institution, Washington D.C., USA
- 2011 Next-Generation DNA Sequencing Workshop, 20-21 July, Smithsonian Institution, Washington D.C., USA
- 2007 Scientist Training Workshop, World Pheasant Association, 14-21 October, Baishuihe Reserve, Sichuan Province, China
- 2004 Scientist Training Workshop, World Pheasant Association, 12-15 April, Mukteswar, Uttar Pradesh, India

Trainees/Mentoring (count)

Post-doctoral Scientists (1)

- Dr. Carl Oliveros (2015-present)

Visiting Post-doctoral Scientists (5)

- Dr. Richard Harrington (Fall 2015)
- Dr. Andrea Quattrini (Fall 2016)
- Dr. Jordan Satler (Fall 2017)
- Dr. James Starret (Fall 2014)
- Dr. Saskia Wutke (Spring & Summer 2017)

Graduate Students (4)

- Eamon Corbett (LSU, PhD, *in progress*)
- Glaucia Del Rio (LSU, PhD, *in progress*)
- Anna Hiller (LSU, PhD, *in progress*)
- Jessie Salter (LSU, PhD, *in progress*)

Fulbright Scholars (1)

- Paraskevi (Penny) Niki Lampri (University of Athens, Greece, 2017-2018)

Visiting Graduate Students (7)

- Sharifa Crandall (UCSC, PhD candidate, Summer 2013)
- Taryn Farber (UCSC, PhD student, Summer 2018)
- Sarah Grove (UCSC, PhD candidate, Summer 2013)
- Shahan Derkarabetian (SDSU, PhD candidate, Fall 2014)
- Sarah Longo (UC Davis, PhD student, Summer 2014)
- Rosalyn Price-Waldman (SDSU, PhD candidate, Summer 2018)
- Alejandra Ramos (UNAM, México, MS student, Summer 2009)

Graduate Committee Member (13)

In Progress

- Rafael Marcondes (LSU, PhD)
- Patrick Rayle (LSU, MS)
- Jackson Roberts (LSU, PhD)
- Amie Settlekowski (LSU, PhD)
- Subir Shakya (LSU, PhD)
- Kyle Sirovy (LSU, PhD)
- Alec J. (AJ) Turner (LSU, PhD)
- Karla Vargas (Univ. of Arizona, PhD)

Completed

- Ansonia Badgett (LSU, PhD, 2018)
- Karine Leydet (LSU, PhD, 2016)
- Cathy Newman (LSU, PhD, 2017)
- Ryan Terrill (LSU, PhD, 2017)
- Jeff Wolf (UCLA, PhD, 2015)

Other Graduate Trainees (9)

- Jonathan Chang (UCLA, 2011-2012)
- Jonathan Drury (UCLA, 2009)
- Princess Gilbert (UCLA, 2012-2014)
- Jennifer Linehan (Univ. of Georgia, 2007)
- Allison Reid (Univ. of Georgia, 2006-2007)
- Jamie Skvarla-Sanderlin (Univ. of Georgia, 2006-2007)
- Brian Shamblin (Univ. of Georgia, 2005-2006)
- Laurie Sorenson (UCLA, 2011)
- Theron Terhune (Univ. of Georgia, 2007)

Teachers/Post-graduate Trainees (9)

- Katherine Crook (Sewanee, 2001-2002)
- Pablo Barrick (Teacher - Watsonville High School, CA, 2013)
- Alex Chase (UCLA, 2013)
- Jonathan Diab (UCSC, 2017)
- Katharine Sarah Holub-Young (UK, 2013)
- Daniel Clark Johnston (Teacher - Watsonville High School, CA, 2013)
- Fulvia Jordan (Teacher - Instituto Alberto Einstein, Panama, 2013)
- Gwen Keller (Univ. of Georgia, 2007)
- Vincent Wu (UCLA/UC Berkeley, 2012)

Undergraduate Trainees (18)

- Justin Brooks (Univ. of Georgia, 2007)
- Adam Butler (MS State Univ., 2003)
- R. Austin Clark (LSU, 2016-present)
- Gereme Gaffney (UCLA, 2009-2011)
- John Gruchy (MS State Univ., 2003)
- Laura Henn (UCSC, 2013)
- Lindsay Kirkman (Univ. of Georgia, 2007)
- Taylor Marcus (LSU, 2017-2018)
- Andrew Mercante (LSU, 2017-present)
- Mackenzie Noonan (LSU, 2017)
- Andrew Nguyen (UCLA, 2009-2011)
- Ryder Ollie (LSU, 2017-present)
- Biannca Pierre (LSU, 2017-2018)
- Marguerite Poché (LSU, 2015-present)
- Kevin Tan (UCLA, 2008)
- Alexandra Title (UC Berkeley, 2008)
- Jennifer Thompson (UCSC, 2013)
- Jimmy Zheng (UCLA, 2013)

High School Trainees (8)

- Juan Pablo Fábrega (Academia Interamericana, Panama, 2013)
- Elana Fruchtman (Harvard-Westlake High, CA, 2008)
- Zack Herbst (Chadwick School, CA, 2012)
- Shiran Herscovich (Instituto Alberto Einstein, Panama, 2013)
- Cesar Garcia Lopez (Watsonville High School, CA, 2013)
- Amanda Romo (Watsonville High School, CA, 2013)
- Natalie Russo (Instituto Alberto Einstein, Panama, 2013)
- Juan David Sánchez (Academia Interamericana, Panama, 2013)

Service to the profession*Editorial*

2018-present	Associate Editor, Systematic Biology
2017-present	Academic Editor, PeerJ
2013-2018	Editorial Board, Systematic Biology
2014-2017	Associate Editor, Axios Review
2007	Editorial Board, International Journal of Galliformes Conservation
2006-2009	Editorial Board, Proceedings, Gamebird 2006 (Quail VI and Perdix XII)

Refereeing

Am Nat, Appl Plant Sci, Bird Conserv Int, BMC Evol Biol, Bull Br Ornithol Club, Conserv Genet, Divers Distrib, Ethology, Evolution, Ibis, J Avian Biol, J Hered, J Wildl Manage, Mol Biol Evol, Mol Ecol, Mol Ecol Res, Mol Phylogenet Evol, Science, Syst Biol, Wildl Soc Bull, Wilson Bull, Zool Stud

Grant panel member

National Science Foundation (2014, 2016, 2017)

Grant review (ad hoc / external)

National Science Foundation (2014, 2015, 2016)

Service to the university

2018-2019	Member, Ornithology Curator Search Committee (LSU)
2017-present	SEE Division Representative to Biological Sciences Executive Committee (LSU)
2015-present	Member, Biological Sciences Graduate Recruitment Committee (LSU)
2016-2017	Member, Cell Biology Search Committee (LSU)
2009	Member, Ecology and Evolutionary Biology (<i>ad hoc</i>) Lab Safety Committee (UCLA)
2006-2008	Member, Forestry & Natural Resources Safety Committee (Univ. of Georgia)
2003	Member, Intercollegiate Athletics Committee (Univ. of Georgia)
2003	Member, University Council (Univ. of Georgia)

Additional professional service

- 2011-present Member of development team for packages in [faircloth-lab](#) software repository @github
- 2007-present Member of the development team for [Primer3](#), a popular program for primer design
- 2006-present Developer of [msatcommander](#) automated microsatellite primer design program
- 2010-2012 Contributor to [The Molecular Ecologist](#)
- 2001-2003 Chair, Student Affairs Committee, The Wildlife Society

Scientific affiliations

- 2017-present American Ornithological Society (Member)
- 2017-present American Genetic Association (Member)
- 2017-present Wilson Ornithological Society (Member)
- 2016-present Society for the Study of Evolution (Lifetime member)
- 2011-present Society of Systematic Biologists (Member)
- 2009-2012 IUCN-SSC Galliformes Specialist Group
- 2006-2011 Association of Field Ornithologists
- 2001-2011 American Ornithologist's Union
- 2006-2010 *Sigma Xi*
- 2001-2008 IUCN-SSC Partridge, Quail, and Francolin Specialist Group
- 1999-2003 The Wildlife Society

Computer skills

Computer programming (Python, R, SAS); System administration (Linux); Document markup languages (CSS, L^AT_EX, HTML); Database administration (PostgreSQL)

Miscellaneous

Former firefighter (Middlebury, VT; Savannah, GA)
Former National Registry EMT-Intermediate and Emergency Room technician, Memorial Trauma Center (Savannah, GA)

Hobbies: cooking, crossfit, fly-fishing, hiking, mountain- & road-biking, running, reading, swimming, travel

Countries visited: Argentina, Australia, Brazil, Canada, China, France, French Polynesia, Germany, Guatemala, India, Mexico, Monaco, The Netherlands, New Zealand, Republic of Panama, Republic of Georgia, Sweden