

# Brant C. Faircloth

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## Research interests

Population and evolutionary genomics of non-model organisms; community genomics; genotype-phenotype interactions; (immuno-)genetic basis of mate choice; mating behavior; social behavior; radio-telemetry; 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)

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

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.

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

*Peer-refereed manuscripts*

**69 total | 5745 citations | h-index: 25, i10-index: 42 | (source: [Google Scholar](#) August 15, 2017)**

69. In Press 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 Biol Evol**.
68. In Press 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. **Syst Biol**. bioRxiv: [10.1101/112581](https://doi.org/10.1101/112581).
67. In Press 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**. pmid: [28720533](https://pubmed.ncbi.nlm.nih.gov/28720533/) doi: [10.1016/j.gene.2017.07.048](https://doi.org/10.1016/j.gene.2017.07.048).

66. In Press 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*. **Ecol Evol**. doi: [10.1002/ece3.3152](https://doi.org/10.1002/ece3.3152).
65. In Press **BC Faircloth**. Identifying conserved genomic elements and designing universal probe sets to enrich them. **Methods Ecol Evol**. doi: [10.1111/2041-210X.12754](https://doi.org/10.1111/2041-210X.12754).
64. In Press P Chakrabarty<sup>††</sup>, **BC Faircloth**<sup>††</sup>, CD McMahan, WB Ludt, WL Fink, TJ Near, A Dornberg, JS Albert, J Arroyave, MLJ Stiassny, L Sorenson, ME Alfaro. Phylogenomic systematics of ostariophysan fishes: Ultraconserved elements support the surprising non-monophyly of characiformes. **Syst Biol**. pmid: [28334176](https://pubmed.ncbi.nlm.nih.gov/28334176/) doi: [10.1093/sysbio/syx038](https://doi.org/10.1093/sysbio/syx038).
63. 2017 CD Hulseay, J Zheng<sup>\*</sup>, **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. **Mol Phylogenet Evol** 114:40-48. pmid: [28579077](https://pubmed.ncbi.nlm.nih.gov/28579077/) doi: [10.1016/j.ympev.2017.05.027](https://doi.org/10.1016/j.ympev.2017.05.027).
62. 2017 MG Branstetter<sup>†</sup>, JT Longino, PS Ward, **BC Faircloth**<sup>†</sup>. Enriching the ant tree of life: enhanced UCE bait set for genome-scale phylogenetics of ants and other Hymenoptera. **Methods Ecol Evol** 8:768-776. doi: [10.1111/2041-210X.12742](https://doi.org/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. **Mol Ecol Res** 17:812-823. pmid: [27768256](https://pubmed.ncbi.nlm.nih.gov/27768256/) doi: [10.1111/1755-0998.12621](https://doi.org/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 (Synognathiformes) using ultraconserved elements. **Mol Phylogenet Evol** 113:33-48. pmid: [28487262](https://pubmed.ncbi.nlm.nih.gov/28487262/) doi: [10.1016/j.ympev.2017.05.002](https://doi.org/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. **Proc Roy Soc B** 284:20170095. pmid: [28404776](https://pubmed.ncbi.nlm.nih.gov/28404776/) doi: [10.1098/rspb.2017.0095](https://doi.org/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. **Curr Biol** 27:1019-1025. pmid: [28376325](https://pubmed.ncbi.nlm.nih.gov/28376325/) doi: [10.1016/j.cub.2017.03.027](https://doi.org/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. **Biochem Syst Ecol** 71:26-31. doi: [10.1016/j.bse.2016.12.009](https://doi.org/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. **Appl Plant Sci** 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 Evol Biol** 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. **Nat Commun** 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. **Mol Ecol** 25:5144-5157. pmid: [27543758](#) doi: [10.1111/mec.13813](#).
52. 2016 TC Glenn, **BC Faircloth**<sup>†</sup>. Capturing Darwin's dream. **Mol Ecol Res** 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. **Mol Ecol Res** 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. **Syst Biol** 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. **Syst Biol** 65:612-627. pmid: [26865273](#) doi: [10.1093/sysbio/syw014](#).

47. 2016 MD McGee<sup>†</sup>, **BC Faircloth**<sup>†</sup>, SR Borstein, J Zheng\*, CD Hulsey, PC Wainwright, ME Alfaro<sup>†</sup>. Replicated divergence in cichlid radiations mirrors a major vertebrate innovation. **Proc Roy Soc 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). **Mol Biol Evol** 33:1110-1125. pmid: [26715628](#) doi: [10.1093/molbev/msv347](#).
45. 2016 **BC Faircloth**<sup>†</sup>. 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<sup>†</sup>, WLE Tsai, **BC Faircloth**<sup>†</sup>. Sequence capture of ultraconserved elements from bird museum specimens. **Mol Ecol Res.** 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. **Mol Phylogenet Evol** 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. **Ecol Lett** 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 Res 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. **Mol Phylogenet Evol** 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. **Mol Phylogenet Evol** 83:250-257. pmid: [25450099](#) doi: [10.1016/j.ympev.2014.10.021](#). [MPE Editor's choice]

37. 2015 **BC Faircloth**<sup>†</sup>, MG Branstetter, ND White, SG Brady. Target enrichment of ultraconserved elements from arthropods provides a genomic perspective on relationships among Hymenoptera. **Mol Ecol Res** 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 > 250 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. **Anim Behav** 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. **Behav Ecol Sociobiol** 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. **Proc R Soc Lond B Biol Sci** 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. **Mol Phylogenet Evol** 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. **Parasit 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. **Syst Biol** 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*). **Conserv Genet Res** 6:175-177. doi: [10.1007/s12686-013-0040-4](#).
25. 2013 **BC Faircloth**<sup>†‡</sup>, L Sorenson, F Santini, ME Alfaro<sup>‡</sup>. 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. **Mol Ecol** 22:19-21. pmid: [23383410](#) doi: [10.1111/mec.12050](#).
22. 2012 **BC Faircloth**<sup>†</sup>, 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 Res** 40:e115. pmid: [22730293](#) doi: [10.1093/nar/gks596](#). [*Nucleic Acids Res* Featured Article; Cited > 2,000 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. **Biol Lett** 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 Biol** 13:415-427. pmid: [22293439](#) doi: [10.1186/gb-2012-13-1-415](#). [Genome Biology Editor's Pick]
18. 2012 **BC Faircloth**<sup>†</sup>, JE McCormack, NG Crawford, MG Harvey, RT Brumfield, TC Glenn. Ultraconserved elements anchor thousands of genetic markers for target enrichment spanning multiple evolutionary timescales. **Syst Biol** 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**<sup>‡</sup>, 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 Res** 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**<sup>†</sup>, [A Title](#), [K Tan](#), J Welty, JR Belthoff, PA Gowaty. Eighteen microsatellite loci developed from western burrowing owls (*Athene cunicularia hypugaea*). **Conserv Genet Res** 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. **Ecol Appl** 20:1040-1052. pmid: [20597288](#) doi: [10.1890/09-1106.1](#).
13. 2009 **BC Faircloth**<sup>†</sup>, [A Ramos](#), H Drummond, PA Gowaty. Isolation and characterization of microsatellite loci from blue-footed boobies (*Sula nebouxii*). **Conserv Genet Res** 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*). **Mol Ecol Resour** 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. **J Wildl Manage** 73:1241-1244. doi: [10.2193/2008-011](https://doi.org/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. **Conserv Genet** 10:577-580. doi: [10.1007/s10592-008-9573-6](https://doi.org/10.1007/s10592-008-9573-6).
9. 2009 **BC Faircloth**<sup>†</sup>, TM Terhune, NA Schable, TC Glenn, WE Palmer, JP Carroll. Ten microsatellite loci from Northern Bobwhite (*Colinus virginianus*). **Conserv Genet** 10:535-538. doi: [10.1007/s10592-008-9559-4](https://doi.org/10.1007/s10592-008-9559-4).
8. 2008 BM Shamblin, **BC Faircloth**, SA Jossierand, CD Nelson, CJ Nairn. Microsatellite loci from the eastern hemlock (*Tsuga canadensis*). **Mol Ecol Resour** 8:1354-1356. pmid: [21586044](https://pubmed.ncbi.nlm.nih.gov/21586044/) doi: [10.1111/j.1755-0998.2008.02274.x](https://doi.org/10.1111/j.1755-0998.2008.02274.x).
7. 2008 **BC Faircloth**. MSATCOMMANDER: detection of microsatellite repeat arrays and automated, locus-specific primer design. **Mol Ecol Resour** 8:92-94. pmid: [21585724](https://pubmed.ncbi.nlm.nih.gov/21585724/) doi: [10.1111/j.1471-8286.2007.01884.x](https://doi.org/10.1111/j.1471-8286.2007.01884.x). [Cited > 500 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*). **Mol Ecol Notes** 7:784-787. doi: [10.1111/j.1471-8286.2007.01701.x](https://doi.org/10.1111/j.1471-8286.2007.01701.x).
5. 2006 **BC Faircloth**. GMCONVERT: file conversion for GeneMapper™ output files. **Mol Ecol 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**<sup>†</sup>, GP Keller, CJ Nairn, WE Palmer, JP Carroll, PA Gowaty. Microsatellite loci from the Eastern Bluebird (*Sialia sialis*). **Mol Ecol 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**<sup>†</sup>, 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*). **Mol Ecol 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**<sup>†</sup>, WE Palmer, JP Carroll. Post-hatching brood amalgamation in Northern Bobwhites. **J Field Ornithol** 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*). **Mol Ecol 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 (w/ revisions)*

5. In Review MH Van Dam, AW Lam, K Sagata, B Gewa, R Laufa, M Blake, **BC Faircloth**, A Riedel. Ultra-conserved elements (UCEs) resolve the phylogeny of Australasian smurf-weevils. *PLoS One*.
4. In Revision MR Pie, MR Bornschein, LF Ribiero, **BC Faircloth**, JE McCormack. Phylogenomic species delimitation in microendemic frogs of the Brazilian Atlantic Forest. **Syst Biol**.
3. In Revision ME Alfaro<sup>††</sup>, **BC Faircloth**<sup>††</sup>, RC Harrington, L Sorenson, M Friedman, CE Thacker, and TJ Near. Explosive diversification of marine fishes at the Cretaceous-Paleogene boundary. **Nature Ecol Evol**.
2. In Revision 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. **Syst Biol**.
1. In 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**<sup>†</sup>. Adapterama I: Universal stubs and primers for thousands of dual-indexed Illumina libraries (iTru & iNext) . **Mol Ecol Res**. bioRxiv: [10.1101/049114](https://doi.org/10.1101/049114)

*Book Chapters*

2. 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.
1. 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.

### Presentations

#### *Invited Seminars*

- Upcoming 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*

- 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 3 years)*

- 2017 A Hiller, RT Brumfield, **BC Faircloth**. Knowns and unknowns in the origin of leapfrog variation in Andean birds. AOS 2017, 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. AOS 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). NAOC 2016, 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. NAOC 2016, 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. NAOC 2016, 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. NAOC 2016, 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*

- 2017 Spring | BIOL 3040 Evolution, 100% (100 students)
- 2016 Fall | BIOL 3040 Evolution, 100% (72 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 (3)*

Dr. Jordan Satler (Fall 2017); Dr. James Starret (Fall 2014); Dr. Saskia Wutke (Spring & Summer 2017)

*Graduate Students (3)*

Glauca 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)

*Graduate Committee Member (9)*

Karine Leydet (LSU, PhD, 2016 Graduation); Rafael Marcondes (LSU, PhD, *in progress*); David Morris (LSU, MS, *in progress*); Cathy Newman (LSU, PhD, 2017 Graduation); Amie Settlesowski (LSU, MS, *in progress*); Subir Shakya (LSU, PhD, *in progress*); Alec J. (AJ) Turner (LSU, PhD, *in progress*); Karla Vargas (Univ. of Arizona, *in progress*), Jeff Wolf (UCLA, PhD, 2015 Graduation)

*Teachers/Post-graduate Trainees (8)*

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

### *Graduate Trainees (14)*

Jonathan Chang (2011-2012, UCLA), Sharifa Crandall (2013, UCSC), Shahan Derkarabetian (2016, SDSU), Jonathan Drury (2009, UCLA), Princess Gilbert (2012-2014, UCLA), Sarah Grove (2013, UCSC), Sarah Longo (2014, UC Davis), Jennifer Linehan (2007, Univ. of Georgia), Alejandra Ramos (2009, UNAM, México), Allison Reid (2006-2007, Univ. of Georgia), Jamie Skvarla-Sanderlin (2006-2007, Univ. of Georgia), Brian Shamblin (2005-2006, Univ. of Georgia), Laurie Sorenson (2011, UCLA), Theron Terhune (2007, Univ. of Georgia)

### *Undergraduate Trainees (16)*

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

### *High School Trainees (8)*

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

### Service to the profession

#### *Editorial*

2017- Academic Editor, PeerJ  
2013- Editorial Board, Systematic Biology  
2007- Editorial Board, International Journal of Galliformes Conservation  
2014-2017 Associate Editor, Axios Review  
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

2017-      SEE Division Representative to Biological Sciences Executive Committee (LSU)  
2015-      Member, Biological Sciences Graduate Recruitment Committee (LSU)  
2016-2017      Member, Cell Biology Search Committee (LSU)  
2009      Member, Ecology and Evolutionary Biology (*ad hoc*) 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-      Member of development team for packages in [faircloth-lab](#) software repository @github  
2007-      Member of the development team for [Primer3](#), a popular program for primer design  
2006-      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-      American Ornithological Society (Member)  
2017-      American Genetic Association (Member)  
2016-      Society for the Study of Evolution (Lifetime member)  
2011-      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,  $\text{\LaTeX}$ , HTML); Database administration (PostgreSQL)

## Miscellaneous

Speak basic, conversational French

Former firefighter (Middlebury, VT; Savannah, GA)

Former National Registry EMT-Intermediate and 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, Germany, Guatemala, India, Mexico, Monaco, The Netherlands, New Zealand, Republic of Panama, Republic of Georgia

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<http://faircloth-lab.org/assets/cv/brant-faircloth-vitae.pdf> — Last updated: August 18, 2017