Justin C. Bagley

CONTACT Information

Department of Biology University of Missouri–St. Louis 1 University Blvd., 223 Research Building

St. Louis, MO 63121-4400, USA

Phone: (314) 516-5125 Fax: (314) 516-6233 E-mail: bagleyj@umsl.edu

Website:

https://justinbagley.org/

PROFESSIONAL APPOINTMENTS

University of Missouri-St. Louis, St. Louis, Missouri, USA

Postdoctoral Research Associate, Department of Biology (2018 – present)

- Advisor: Nathan Muchhala (Funding: NSF DEB)

Virginia Commonwealth University, Richmond, Virginia, USA

Affiliate Researcher, Department of Biology (2018 – present) Postdoctoral Scholar, Department of Biology (2017 – 2018)

- Advisor: Andrew J. Eckert (Funding: NSF Macrosystems Biology)

Universidade de Brasília, Brasília, Distrito Federal, Brazil
Senior Research Associate, Departamento de Zoologia (2015 – 2018)

Universidade Estadual Paulista (UNESP), São Jose do Rio Preto, São Paulo, Brazil

Young Talent Fellow Postdoc, Departamento de Zoologia e Botânica (2015 – 2017)

- Director: Kiko Langeani; Coordinator: Guarino R. Colli (Funding: CNPq)

Utah Valley University, Orem, Utah, USA

Adjunct Instructor of Ecology, Department of Biology (Summer 2014)

EDUCATION

Brigham Young University, Provo, Utah, USA

Ph.D. in Integrative Biology (December 2014)

- Advisor: Jerald B. Johnson

The University of Alabama, Tuscaloosa, Alabama, USA

M.Sc. in Biology (August 2008)

- Advisor: Phillip M. Harris

B.Sc. in Biology (December 2004)

- Advisor: Stephen M. Secor

Shelton State Community College, Tuscaloosa, Alabama, USA

A.S. in General Studies (May 2002)

LANGUAGES

Spoken: English (native), Spanish (near fluent, 9 yrs), Portuguese (functional, 2.5 yrs) Programming & Markup: bash/shell, R, Python, git, Swift, Markdown, LATEX

RESEARCH INTERESTS

phylogeography, phylogenomics, population genomics, speciation, adaptation, gene flow (hybridization), species delimitation, integrative taxonomy, ecological niche modeling, phylogenetic comparative methods

Google Scholar citation metrics:

Cited by						VIEW	/ ALL
			Α	ı		Since	2015
Citations			28	5			254
h-index		10					9
i10-index			10)			9
			_				60
	i						30
2013 2014	2015	2016	2017	2018	2019	2020	0

ResearchGate Score:



Abbreviations: $^{\mathrm{U}}$ undergraduate student, $^{\mathrm{G}}$ graduate student

A. Peer-reviewed Journal Papers and Book Chapters

- 22. **Bagley JC**, Aquino PPU, Hrbek T, Hernandez S^G, Langeani F, Colli GR (in revision) Using ddRAD-seq phylogeography to test for genetic effects of headwater river capture in suckermouth armored catfish (Loricariidae: Hypostomus) from the central Brazilian Shield. **Molecular Ecology**.
- 21. Menon M, **Bagley JC**, Page G, Whipple AV, Schoettle AW, Still C, Wehenkel C, Waring K, Flores-Renteria L, Cushman SA, Eckert AJ (*in revision*) Adaptive evolution in a conifer hybrid zone is driven by a mosaic of introgressed and standing genetic variants. *Communications Biology*.
- 20. Bagley JC, Heming NM, Gutiérrez EE, Devisetty UK, Mock KE, Eckert AJ, Strauss SH (2020) Genotyping-by-sequencing and ecological niche modeling illuminate phylogeography, admixture, and Pleistocene range dynamics in quaking aspen (*Populus tremuloides*). *Ecology and Evolution*, 10, 4609–4629.
- Bagley JC, Uribe-Convers S, Carlsen M, Muchhala N (2020) Utility of targeted sequence capture for phylogenomics in rapid, recent angiosperm radiations: Neotropical *Burmeistera* bellflowers as a case study. *Molecular Phylo*genetics and *Evolution*. Available online. doi:10.1016/j.ympev.2020.106769.
- Bagley JC, Aquino PPU, Breitman MF, Langeani F, Colli GR (2019) DNA barcode and minibarcode identification of freshwater fishes from Cerrado headwater streams in central Brazil. *Journal of Fish Biology*, 95, 1046–1060.
- 17. Menon M^G, Landguth E, Sáenz AL^G, **Bagley JC**, Schoettle A, Wehenkel CA, Cushman S, Waring K, Eckert AJ (2019) Tracing the footprints of a moving hybrid zone under a demographic history of speciation with gene flow. *Evolutionary Applications*. Accepted Author Manuscript doi:10.1111/eva.12795.
- 16. **Bagley JC**, Hickerson MJ, Johnson JB (2018) Testing hypotheses of diversification in Panamanian frogs and freshwater fishes using hierarchical approximate Bayesian computation with model averaging. *Diversity*, 10, 120.
- 15. Breitman MF, Domingos FMCB, **Bagley JC**, Wiederhecker HC, Ferrari TB^U, Cavalcante VHGL^G, et al.^{UG} (2018) A new species of *Enyalius* (Squamata: Leiosauridae) endemic to the Brazilian Cerrado. *Herpetologica*, 74(4), 355–369.
- Bagley JC, Harris PM, Mayden, RL (2018) Phylogeny and divergence times of suckers (Cypriniformes: Catostomidae) inferred from Bayesian total-evidence analyses of molecules, morphology, and fossils. *PeerJ*, 6, e5168.

- 13. Menon MG^G, Bagley JC, Friedline C, Whipple A, Schoettle A, Sáenz AL^G, Wehenkel CA, Flores-Rentería LH, Sniezko R, Cushman S, Waring K, Eckert AJ (2018) The role of hybridization during ecological divergence between southwestern white pine, *Pinus strobiformis*, and limber pine, *P. flexilis*. *Molecular Ecology*, 27, 1245–1260.
- Overcast I^G, Bagley JC, Hickerson, MJ (2017) Strategies for improving approximate Bayesian computation tests for synchronous diversification. BMC Evolutionary Biology, 17, 203.
- 11. Ceríaco LM, Gutiérrez EE, Dubois A, et al. ^{UG} (Appendix 1 of **Supporting Signatories**) (2016) Photography-based taxonomy is inadequate, unnecessary, and potentially harmful for biological sciences. **Zootaxa**, 4196, 435–445.
- Bagley JC, Matamoros WA, McMahan CD, Tobler M, Chakrabarty P, Johnson JB (2016) Phylogeography and species delimitation in convict cichlids (Cichlidae: Amatitlania): implications for taxonomy and Plio—Pleistocene evolutionary history in Central America. Biological Journal of the Linnean Society, 120(1), 155–170.
- Bagley JC, Alda F, Breitman MF, van den Berghe E, Bermingham E, Johnson JB (2015) Assessing species boundaries using multilocus species delimitation in a morphologically conserved group of Neotropical freshwater fishes, the *Poecilia* sphenops species complex (Poeciliidae). *PLoS One*, 10(4), e0121139.
- 8. Watson CM, Makowsky R, **Bagley JC**^G (2014) Reproductive mode evolution in lizards revisited: updated analyses examining geographic, climatic and phylogenetic effects support the cold-climate hypothesis. *Journal of Evolutionary Biology*, 27(12), 2767–2780.
- Bagley JC^G, Johnson JB (2014b) Testing for shared biogeographic history in the lower Central American freshwater fish assemblage using comparative phylogeography: concerted, independent, or multiple evolutionary responses? *Ecol*ogy and *Evolution*, 4, 1686–1705.
- Bagley JC^G, Johnson JB (2014a) Phylogeography of the lower Central American Neotropics: diversification between two continents and between two seas. *Biological Reviews*, 89(4), 767–790.
- 5. Bagley JC^G, Sandel M, Travis J, Lozano-Vilano M de L, Johnson JB (2013)
 Paleoclimatic modeling and phylogeography of least killifish, *Heterandria formosa*: insights into Pleistocene expansion-contraction dynamics and evolutionary history of North American Coastal Plain freshwater biota. *BMC Evolutionary Biology*, 13, 223.
- 4. Unmack PJ, **Bagley JC**^G, Adams MD, Hammer MD, Johnson JB (2012) Molecular phylogeny and phylogeography of the Australian freshwater fish genus *Galaxiella* (Teleostei: Galaxiidae), with an emphasis on dwarf galaxias (*G. pusilla*). *PLoS One*, 7(6), e38433.
- 3. **Bagley JC**^G, Mayden RL, Roe KJ, Holznagel W, Harris PM (2011). Congeneric phylogeography reveals polyphyly and novel biodiversity within black basses (Centrarchidae: *Micropterus*). *Biological Journal of the Linnean Society*, 104, 346–363.
- Johnson JB, Bagley JC^G (2011) Ecological drivers of life-history evolution. In: Ecology and Evolution of Poeciliid Fishes. (eds Evans JP, Pilastro A, Schlupp I), pp. 38–49. *University of Chicago Press*, Chicago, IL. ISBN-10: 0226222748.
- 1. Thompson M^G, Bagley JC^G, Rasco J, Lackey K, Cox M^G (2007) The Respiratory

System. In: Biology: The Study of Life (eds Rasco J, Lackey K). *Kendall/Hunt Publishing*. ISBN-10: 0757556434.

B. Preprints

- Bagley JC, Heming NM, Gutiérrez EE, Devisetty UK, Mock KE, Eckert AJ, Strauss SH (2018) Genotyping-by-sequencing and ecological niche modeling illuminate phylogeography, admixture, and Pleistocene range dynamics in quaking aspen (*Populus tremuloides*). *PeerJ Preprints*. Available online at: https://peerj.com/preprints/27162/.
- Bagley JC, Hickerson MJ, Johnson JB (2018) Testing hypotheses of diversification in Panamanian frogs and freshwater fishes using hierarchical approximate Bayesian computation with model averaging. *PeerJ Preprints*. Available online at: https://peerj.com/preprints/26623/.
- Menon MG^G, Bagley JC, Friedline C, Whipple A, Schoettle A, Sáenz AL^G, Wehenkel CA, Flores-Rentería LH, Sniezko R, Cushman S, Waring K, Eckert AJ (2017) The role of hybridization during ecological divergence between southwestern white pine, *Pinus strobiformis*, and limber pine, *P. flexilis. bioRxiv*. Link: https://www.biorxiv.org/content/early/2017/09/07/185728.

C. Manuscripts In Preparation

- 3. Calderón–Acevedo CAG, **Bagley JC**, Muchhala N (*in prep.*) Genome-wide ultraconserved elements resolve phylogenetic relationships among Neotropical leafnosed bats in the genus *Anoura* Gray 1838. *Molecular Phylogenetics and Evolution*.
- 2. **Bagley JC**, Breitman MF, Bolte C^G, Johnson JB (*in prep.*) Idiosyncratic effects of tectonism, sea levels, and continental shelf width on Neotropical freshwater fish diversification in Central America. *BMC Evolutionary Biology*.
- 1. Domingos FMCB, **Bagley JC**, Lemmon A, Colli GR, Beheregaray LB (*in prep.*) Inner conflict: a comparative phylogeographical test of effects of ecology and history on the evolution of a Neotropical biodiversity hotspot. *Systematic Biology*.

D. Datasets, Open-Source Software & Code

- 8. **Bagley J**, Heming N, Gutiérrez E (2020) Data for: Genotyping-by-sequencing and ecological niche modeling illuminate phylogeography, admixture, and Pleistocene range dynamics in quaking aspen (*Populus tremuloides*). *Mendeley Data*, v2. Available at: http://dx.doi.org/10.17632/jhkhvdgyfy.2.
- Bagley J (2019) Data for: DNA barcode and minibarcode identification of freshwater fishes from Cerrado headwater streams in central Brazil. [Data Set].
 Mendeley Data, v1. Available at: http://dx.doi.org/10.17632/9pr3cpf33g.1.
- Bagley JC (2019) PIrANHA. justincbagley/PIrANHA: PIrANHA version 0.3a2 [Data Set]. Zenodo. Available at: https://zenodo.org/badge/latestdoi/64274217.
- 5. **Bagley JC**, Hickerson MJ (2018) Data for: Testing hypotheses of diversification in Panamanian frogs and freshwater fishes using hierarchical approximate Bayesian computation with model averaging. [Data Set]. *Mendeley Data*, v2. Available at: http://dx.doi.org/10.17632/f94kxmwf2n.2.

- Bagley JC, Mayden R, Harris P (2018) Data for: Phylogeny and divergence times
 of suckers (Cypriniformes: Catostomidae) inferred from Bayesian total-evidence
 analyses of molecules, morphology, and fossils. [Data Set]. *Mendeley Data*, v2.
 Available at: http://dx.doi.org/10.17632/trw6sb4v7w.2.
- 3. **Bagley JC** (2017) MissingDataFX. justincbagley/MissingDataFX: MissingDataFX version 0.1.1 [Data Set]. **Zenodo**. Available at: http://doi.org/10.5281/zenodo.399837.
- 2. **Bagley JC** (2017) MAGNET. justincbagley/MAGNET: MAGNET version 0.1.4 [Data Set]. **Zenodo**. Available at: http://doi.org/10.5281/zenodo.399054.
- 1. **Bagley JC** (2016) GaussClust. justincbagley/GaussClust: GaussClust version 0.1.0 [Data Set]. **Zenodo**. Available at: http://doi.org/10.5281/zenodo.231221.

Presentations & Contributed Abstracts

Abbreviations: ^Uundergraduate student, ^Ggraduate student; OP, Oral Presentation; PP, Poster Presentation

- 29. Bagley JC, Uribe—Convers S, Carlsen MM, Muchhala N (2019) Assessing the utility of Hyb-Seq for resolving phylogeny and introgression in rapid angiosperm radiations: a pilot study in *Burmeistera* bellflowers. Department of Biology Biolunch, University of Missouri-St. Louis, St. Louis, MO, October 16. (University OP)
- 28. **Bagley JC**, Uribe–Convers S, Carlsen M, Muchhala N (2019) Assessing the utility of Hyb-Seq for resolving phylogeny and introgression in rapid angiosperm radiations: a pilot study in *Burmeistera* bellflowers. **Evolution Meeting 2019**, Providence, RI, June 21–25. (International Meeting; PP)
- 27. Calderon–Acevedo C^G, **Bagley JC**, Muchhala N (2019) Genome-wide ultraconserved elements resolve phylogenetic relationships among leaf-nosed bats in the genus *Anoura* Gray 1838. **99th Annual Meeting of the American Society of Mammalogists**, Washington, DC, June 27–July 2. (National Meeting; OP)
- 26. Menon M^G, Page G, **Bagley JC**, Cushman S, Waring K, Whipple A, Flores–Rentería L, Still C, Wehenkel C, Eckert AJ (2019) Introgression fuels adaptive evolution in range margin populations of *Pinus strobiformis*. **Evolution Meeting 2019**, Providence, RI, June 21–25. (International Meeting; OP)
- 25. Menon M, Landguth E, Leal-Sáenz A, Bagley JC, Wehenkel C, Waring K, Schoettle A, Eckert AJ (2018) The role of hybridization during ecological divergence of *Pinus strobiformis* and *P. flexilis*. Population, Evolutionary and Quantitative Genetics Conference (GSA), Madison, WI, May 13–16. (International Meeting; PP).
- 24. Menon M^G, Sáenz AL^G, Landguth E, Bagley JC, Schoettle A, Wehenkel CA, Cushman S, Waring K, Eckert AJ (2018) Tracing the footprints of a hybrid zone under a history of divergence with gene flow. 21st Annual Graduate Research Symposium and Exhibit, Virginia Commonwealth University, Richmond, VA, April 24. (University Symposium; PP)
- 23. Bagley JC, Menon M^G, Friedline C, Whipple A, Schoettle A, Sáenz AL^G, Wehenkel CA, Flores-Rentería LH, Sniezko R, Cushman S, Waring K, Eckert AJ (2018) Population genomics and paleoclimatic modeling support speciation with gene flow, not genomic islands of differentiation, in sky-island populations of southwestern white pine. International Plant & Animal Genome Conference XXVI, San Diego, CA, January 13–17. (International Meeting; PP)
- 22. Bagley JC, Aquino PPU, Hrbek T, Hernandez S, Langeani F, Colli GR (2017)

- Using ddRAD-seq phylogeography to test for genetic effects of headwater river capture in suckermouth armored catfish (Loricariidae: *Hypostomus*) from the central Brazilian Shield. **Evolution Meeting 2017**, Portland, OR, June 23–27. (International Meeting; OP)
- 21. Bagley JC, Menon M^G, Friedline C, Whipple A, Schoettle A, Sáenz AL^G, Wehenkel CA, McGarvey D, Flores-Rentería LH, Sniezko R, Cushman S, Waring K, Eckert AJ (2017) Population genomics and paleoclimatic modeling support speciation with gene flow, not genomic islands of differentiation, in sky-island populations of southwestern white pine. Evolution Meeting 2017, Portland, OR, June 23–27. (International Meeting; PP)
- 20. Menon M^G, Bagley JC, Friedline C, Whipple A, Schoettle A, Sáenz AL^G, Wehenkel CA, McGarvey D, Flores-Renteria LH, Sniezko R, Cushman S, Waring K, Eckert AJ (2017) What's in a name? Ecological speciation in southwestern white pine. Evolution Meeting 2017, Portland, OR, June 23–27. (International Meeting; OP)
- 19. Ferrari TB^U, Breitman MF, Domingos F, Wiederhecker HC, **Bagley JC**, de Mello R, de Lima T^G, Colli G (2017) Taxonomia integrative e delimitação de espécies no Cerrado: uma nova espécie de *Enyalius* (Squamata: Leiosauridae) endemic do bioma. **VIII Congresso Brasileiro de Herpetologia**, Mato Grosso, Brazil. (National Meeting; Abstract + OP)
- 18. Wiederhecker HC, Breitman MF, Domingos F, **Bagley J**, Colli G (2017) Next-Generation Teaching: ensinando ao pesquisar taxonomia integrative beneficia estudantes e professores. **VIII Congresso Brasileiro de Herpetologia**. (National Meeting; Abstract + OP)
- 17. Aquino PPU, **Bagley JC**, Couto TBA, Figueira-Soares YF^U (2015) Sinal biogeográfico de captura de cabeceira: primeiro registro de *Phalloceros harpagos* Lucinda, 2008 (Cyprinodontiformes: Poeciliidae) em riachos da bacia do rio São Francisco. **III Simpósio de Zoologia Sistemática**, UFMG Campus Pampulha, Belo Horizonte, Minas Gerais, Brazil, December 16–20. (Regional Meeting; Abstract + PP)
- 16. Unmack PJ, Bagley JC, Davis A, Hammer MP, Adams M, Johnson JB (2014) Phylogeny, biogeography and evolution of the temperate perches (Percichthyidae). Australian Society for Fish Biology, Darwin Convention Center, Darwin, Northern Territory, Australia, June 30–July 4. (National Meeting; Abstract + PP)
- 15. **Bagley JC**^G, Alda FA, Breitman MF, van den Berghe EP, Bermingham E, Johnson JB (2014) Who's your "molly"? Species boundaries and cryptic diversity in a complex of Neotropical freshwater fishes. **BYU Grad Expo**, Brigham Young University, Provo, UT, U.S.A., March 25. (Invited PP)
- 14. **Bagley JC**^G (2014) Paleoclimatic modeling and phylogeography of least killifish, *Heterandria formosa*: insights into Pleistocene expansion-contraction dynamics along the North American Coastal Plain. **Center for Bioenvironmental Research**, Tulane University, New Orleans, Louisiana, U.S.A., January 13. (Invited OP)
- 13. **Bagley JC**^G, Johnson JB (2013) Phylogeography of the lower Central American Neotropics: diversification between two continents, between two seas. **Joint International Meeting of Ichthyologists and Herpetologists**, Albuquerque, New Mexico, U.S.A., July 9–15. (International Meeting; Abstract + OP)
- 12. Bagley JC^G, Sandel M, Travis J, Lozano-Vilano M de L, Johnson JB (2013) Test-

- ing biogeographic hypotheses of Plio—Pleistocene history and diversification along the North American Gulf-Atlantic Coastal Plain in least killifish (*Heterandria formosa*). **Evolution Conference**, Snowbird Resort, Salt Lake City, Utah, U.S.A., June 20–25. (International Meeting; PP)
- Bagley JC^G (2012) Integrative comparative phylogeographical approaches to understanding evolutionary diversification in Central American freshwater fishes.
 São Paulo School for Advanced Science-Evolution (SPSAS-evo), Ilhabela, Brazil, August 19–31. (International Workshop; PP)
- 10. **Bagley JC**^G, Johnson JB (2012) Comparative phylogeography of Central American freshwater fishes. **1st Joint Congress on Evolutionary Biology**, Ottawa, Ontario, Canada, July 6–10. (International Meeting; PP)
- 9. Lozano-Vilano M de L, **Bagley JC**^G (2010) A new species of *Heterandria* from Coahuila state, México. **Annual Meeting of the Texas Academy of Sciences**, Austin, Texas, U.S.A. (Abstract)
- 8. **Bagley JC**^G, Johnson JB (2010) Do secondary freshwater fishes show congruent responses to saltwater barriers? **Evolution 2010**, Joint Annual Meeting of the Society for the Study of Evolution, Society of Systematic Biologists, and American Society of Naturalists, Portland, Oregon, U.S.A., June 25–29. (International Meeting; OP)
- Nay L^U, Bagley JC^G, Johnson JB (2009) Life history variation in the knife-edged livebearer, Alfaro cultratus. Joint International Meeting of Ichthyologists and Herpetologists, Portland, Oregon, U.S.A., July 22–27. (International Meeting; Abstract + PP)
- 6. Bagley JC^G (2009) Phylogenetic comparative analyses of body size and shape variation in a diverse yet morphologically conservative clade of lungless salamanders (Plethodontidae: Desmognathus). Department of Biology Ecolunch Seminar, Brigham Young University, Provo, Utah, U.S.A., January 30. (OP)
- 5. Bagley JC^G, Brummer T^U, Nay L^U, Johnson JB (2008) Phylogeography, geometric morphometrics, and life history variation of Alfaro cultratus (Cyprinodontiformes: Poeciliidae) from Costa Rica. Desert Fishes Council Meeting, Cuatro Ciénegas, Mexico, November. (Annual Meeting; Abstract + PP)
- Bagley JC^G (2008) Polyphyly, hybridization and cryptic biodiversity among Micropterus. Desert Fishes Council Meeting, Cuatro Ciénegas, Mexico, November. (Annual Meeting; Abstract + OP)
- 3. **Bagley JC**^G (2008) A new molecular phylogeny of the black basses, *Micropterus* (Teleostei: Centrarchidae), based on increased within-taxon sampling. **Department of Biology Ecolunch Seminar**, Brigham Young University, Provo, Utah, U.S.A., October 31. (OP)
- 2. **Bagley JC**^G, Harris PM (2008) Taxonomy, population genetics and body shape variation in Alabama spotted bass. **Joint International Meeting of Ichthyologists and Herpetologists**, Montreal, Quebec, Canada. (International Meeting: Abstract + OP)
- 1. **Bagley JC**^U, Secor SM (2004) Allometry of digestive performance in the marine toad and diamondback water snake. **Society for Integrative and Comparative Biology Meeting**, San Diego, California, U.S.A. (Annual Meeting; Abstract + PP)

Grants & Fellowships (Total: \$156,908)

	Jan 2019	J. Frank Schmidt Family Charitable Foundation Grant (\$6480)		
	Sep 2014	Young Talent Fellow, Science Without Borders Program (\$77,040) Conselho Nacional de Desenvolvimento Cientifico e Tecnologico (CNPq), Brazil		
	Apr 2012	Doctoral Dissertation Improvement Grant (DDIG) (\$14,040) U.S. National Science Foundation (NSF)		
	Aug 2012	Graduate Research Fellowship (\$15,000) Graduate Studies, Brigham Young University		
	2010	IDEA WILD Research Equipment Award (\$800)		
	2010	Graduate Mentoring Environment Research Award (\$5000) Brigham Young University		
	Aug 2008	Board of Regents Fellowship (\$24,000; declined) University of Louisiana, Lafayette		
	May 2007	$LINK \ Foundation/Smithsonian \ Research \ Fellowship, \ SMSFP \\ (\$5548)$		
	Jan 2007	Collegiate License Tag Endowed Grad. Education Fund Fellowship (\$19,000) The University of Alabama		
	May 2002	Phi Theta Kappa Presidential Scholarship to The University of Alabama (\$14,000) Association of Alabama Two-Year Colleges		
Academic Honors & Travel Awards (Total: \$4525)	2018	Full Member, Sigma Xi, The Scientific Research Society		
	2012	São Paulo School for Advanced Science-Evolution (SPSAS-evo) course, São Paulo, Brazil (\$2500)		
	2009	National Academy of Sciences Sackler Colloquium Student Trav Award (\$425)		
	2007	The University of Alabama Graduate Student Association Research and Travel Support Fund Grant (\$1000)		
	2007	The University of Alabama Graduate School Research and Travel Fund Award ($\$600$)		

TEACHING EXPERIENCE

General Biology

Principles of Biology, non-majors

Student Instructor, BIO 100 (Summer 2014)

Co-Instructor with Keith Crandall, BIO 100H Honors section (Fall 2011)

Graduate Teaching Assistant to Duke Rogers, BIO 100 (Fall 2010)

Graduate Teaching Assistant to Richard Gill, BIO 100 (Winter 2009)

 $Principles\ of\ Biology\ I\ Laboratory$

Graduate Teaching Assistant to Jane Rasco, BSC 115 (2006 – 2008)

Ecology and Evolution

Advanced Evolution

Guest Lecturer for Nathan Muchhala, BIOL 5302 (Spring 2019)

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Integrative Taxonomy (with an Emphasis on Squamata)
Co-Instructor, BIOL 391 (Summer 2017 – CURE)
Co-Instructor, ZOO 397806 (Spring 2016 – CURE)

General Ecology
Instructor, BIOL 3700 (Summer 2014)
Co-Instructor with Russell Rader, BIO 350 (Winter 2012)

Evolutionary Biology Laboratory
Graduate Teaching Assistant to Michael Whiting, BIO 421 (Winter 2010)
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Training

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Teaching Advancement Program (TAP) Course
Graduate Student Participant, The University of Alabama (2007)
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Mentoring Students in Research – The following undergraduate and graduate students were mentored in research during my PhD and postdoctoral training at Brigham Young University (BYU), Universidade de Brasília (UnB), Virginia Commonwealth University (VCU), and the University of Missouri-St. Louis (UMSL). Information is given as [student, degree/major, university, (years)].

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Graduate Students
Camilo A. Calderón-Acevedo, Ph.D. Biology, UMSL (2019)

Undergraduate Students
Zachary Grasso, B.Sc. Biology, VCU (2018)
Samantha Moon, B.Sc. Biology, VCU (2017 - 2018)
Ingrid Pinheiro Paschoaletto, B.Sc. Zoologia, UnB (2015 - 2017)
Dean Trubschenck, B.Sc. Biology, BYU (2010 - 2013)
Joseph Nelson, B.Sc. Biology, BYU (2010 - 2012)
Zachary Panter, B.Sc. Biology, BYU (2010 - 2013)
Lacey Nay, B.Sc. Biology, BYU (2008 - 2009)
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Reviewer

Journals (20, 2011 – present)

Molecular Ecology (3)

Ecology and Evolution (3)

Molecular Phylogenetics and Evolution (2)

Conservation Genetics (2)

Systematic Biology (1)

Environmental Biology of Fishes (1)

Heredity (1)

Journal of Heredity (1)

Journal of Biogeography (1)

Journal of Fish Biology (1)

Neotropical Ichthyology (1)

PeerJ (1)

Proceedings of the Royal Society of London B (1)
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$Scientific\ Reports\ (1)$

Transactions of the Royal Society of South Africa (1)

Zoological Journal of the Linnean Society (1)

OTHER SERVICE & OUTREACH	Dec 2017	World scientists' warning to humanity: A second notice. Signatory. BioScience, 67(12), 1026–1028.				
	Winter 2014	BYU Grad Expo (Department of Biology representative) Graduate Studies, Brigham Young University				
	Jun 2009	Day Instructor, Summer Science Fish Camp Canyon Brook Private School, Provo, Utah				
	Oct 2008	Conservation Field Trip, Desert Springs Action Committee (DSAC)				
		Ash Meadows National Wildlife Refuge				
	Oct 2008	Course Field Trip to sample Spanish Fork River				
		Ichthyology, BIO 220/443, Brigham Young University				
Professional	2018 –present	Sigma Xi, The Scientific Research Society				
Organizations	2014 -present	American Association for the Advancement of Science (AAAS)				
	2010 -present	Society of Systematic Biologists (SSB)				
	2007 –present	The Society for the Study of Evolution (SSE)				
	2007 –present	The American Society of Naturalists (ASN)				
	2007 –present	American Society of Ichthyologists and Herpetologists (ASIH)				

Professional References

Dr. Nathan Muchhala (Postdoc Advisor and Collaborator)

Associate Professor Department of Biology

University of Missouri–St. Louis

1 University Blvd., 223 Research Building,

St. Louis, MO 63121-4400, U.S.A.

Phone: (314) 516-6672 E-mail: muchhalan@umsl.edu

Dr. Andrew J. Eckert (Postdoc Advisor and Collaborator)

Associate Professor Department of Biology Virginia Commonwealth University 1000 W Cary St, Rm 126 Richmond, VA 23284-2012, U.S.A.

Phone: (804)-828-0800 E-mail: aeckert2@vcu.edu

Dr. Jerald B. Johnson (Ph.D. Advisor and Collaborator)

Professor & Co-Curator of Fishes Department of Biology & Monte L. Bean Life Science Museum Brigham Young University 4102 LSB (Life Sciences Building) Provo, UT 84602-5535, U.S.A.

Phone: (801)-422-4502

E-mail: jerry.johnson@byu.edu

Dr. Keith A. Crandall (Ph.D. Committee Member and Co-Instructor)

Professor and Chair—Computational Biology Institute George Washington University Innovation Hall, 45085 University Drive, Suite 305 Ashburn, VA 20147, U.S.A.

Phone: (571)-553-0146 E-mail: kcrandall@gwu.edu

Last update: 7 March 2020 https://justinbagley.org/pages/cv.html