

CURRICULUM VITAE

JANET C. BUCKNER, PHD

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EDUCATION

- 2017 **Ph.D.**, Biology, University of California, Los Angeles
Dissertation Co-Chairs: Dr. David K. Jacobs and Dr. Michael E. Alfaro
- 2011 **B.S.**, Zoology, Cum Laude; **Minor**: Chemistry, State University of New York at Oswego
Thesis Advisors: Dr. Karen R. Sime, Dr. Amy B. Welsh and Dr. C. Eric Hellquist

RESEARCH POSITIONS

- 2020-Present **Postdoctoral Researcher/Lab Manager**
Museum of Natural History, Louisiana State University
Postdoctoral Advisors: Dr. Robb Brumfield and Dr. Jacob Esselstyn
- 2018-19 **NSF Postdoctoral Research Fellow in Biology**
Department of Ecology, Evolution & Organismal Biology, Iowa State University
Postdoctoral Advisors: Dr. Tracy A. Heath and Dr. Courtney Hofman
- 2016 **Graduate Research Assistant**
Institute for Society and Genetics, University of California, Los Angeles
- 2014 **Graduate Research Assistant**
Undergraduate Education Initiatives, Division of Undergraduate Education,
University of California, Los Angeles
- 2012-13 **Graduate Research Assistant**
Department of Ecology and Evolutionary Biology, University of California, Los Angeles

TEACHING & RESEARCH MENTORSHIP

Teaching Associate

- UCLA EEB 111 – Biology of Vertebrates Lab, 2017
- UCLA EEB 115 – Mammalogy Lab, 2017

Teaching Assistant

- UCLA EEB 110 – Vertebrate Morphology Lab, 2013
- UCLA EEB C173/187 – Earth Process and Evolutionary History Lab, 2012/13

Workshops

- Latin American Macroevolutionary Analysis Workshop, 2015

Undergraduate Research Mentees

- Christine Xue, UCLA, 2017
- Kylie Rostad, UCLA, 2016
- Mario Castaneda, UCLA, 2016
- Jacqueline Lopez, UCLA (HHMI Pathways), 2016
- Lauren Vincent, UCLA (HHMI Pathways), 2016
- Jaime Tan, UCLA, 2014

Alexa Golden, UCLA, 2012

PUBLICATIONS

- Buckner JC**, Ellingson RE, Gold DA, Jones TL, Jacobs DK (2018) Mitogenomics supports an unexpected taxonomic relationship for the extinct diving duck *Chendytes lawi* and definitively places the extinct Labrador Duck. *Molecular Phylogenetics and Evolution* 122, 102-109.
- Lima MGM, Sousa e Silva Júnior J, Cerny D, **Buckner JC**, et. al. (2018) A phylogenomic perspective on the robust capuchin monkey (*Sapajus*) radiation. *Molecular Phylogenetics and Evolution* 124, 137-150.
- Lima MGM, **Buckner JC**, Sousa e Silva Júnior J, Aleixo A, Martins A, Boubli JP, Link A, Farias IP, Silva MN, Röhe F, Queiroz H, Chiou KL, Di Fiore A, Alfaro ME, Lynch Alfaro JW (2017) Capuchin monkey biogeography: Understanding sympatry between *Cebus* and *Sapajus*. *Journal of Biogeography* doi: 10.1111/jbi.12945
- Rylands AB, Heyman EW, Lynch Alfaro J, **Buckner JC**, Roos C, Matuschek C, Boubli JP, Sampaio R, Mittermeier RA. (2016) Taxonomic review of the New World tamarins (Primates: Callitrichidae). *Zoological Journal of the Linnean Society* 117 (4), 1003-1028.
- Blumstein D, **Buckner, J.**, Shah, S., Patel, S., Alfaro, M. E., Natterson-Horowitz, B. (2015). A clinical research pathway towards developing new insights into cardiomyopathy. *Evolution, Medicine, and Public Health* 2015, 280.
- Blumstein D, **Buckner, J.**, Shah, S., Patel, S., Alfaro, M. E., Natterson-Horowitz, B. (2015). The evolution of capture myopathy in hooved mammals: a model for human stress cardiomyopathy? *Evolution, Medicine, and Public Health* 2015 (1), 195-203.
- Buckner JC**, Lynch Alfaro J, Rylands A, Alfaro ME. (2015) Biogeography of the Marmosets and Tamarins. *Molecular Phylogenetics and Evolution* 82, 413-425.
- Buckner JC**, Welsh AB, Sime KR. (2014) Evidence for Population Differentiation in the Bog Buckmoth of New York State. *Northeastern Naturalist* 21, 506-514.

MANUSCRIPTS

Buckner JC et. al. (*in revision*) Wild capuchin monkey MHC diversity refutes trans-species polymorphism across primate infraorders and reveals ecological patterns of adaptive genetic variation.

Buckner JC et. al. (*in prep*) Phylogenomics of the chachalacas, curassows and guans (Cracidae).

INVITED SEMINARS

University of Florida, Museum of Natural History Seminar Series (November 2020)

University of Memphis, Department of Biological Sciences Seminar Series (November 2020)

CONFERENCE PRESENTATIONS

- Buckner JC.** Anseriformes Evolution. NAOC (2020) Invited, Oral.
- Buckner JC.** Diversification dynamics of the chachalacas, curassows and guans (Family Cracidae). Evolution Meeting (2019) Invited, Oral.
- Buckner JC, Lynch Alfaro JW.** MHC diversity in white-faced capuchin monkeys. International Primatological Society Congress (2018) Oral.
- Buckner J, Ellingson R, Gold DA, Jones TL, Jacobs DK.** Ancient DNA analysis of the extinct diving ducks *Chendytes lawi* and the Labrador duck reveal convergent evolution of diving in boreal habitats. Evolution Meeting (2017) Oral.
- Buckner J, Ellingson R, Gold DA, Jacobs DK.** Sequencing Dead Ducks - The Labrador Duck is Sister to Stellar's Eider and the Subfossil *Chendytes lawi* roots the dabbling duck clade. Society for Integrative and Comparative Biology Meeting (2017) Oral.
- Apkenas V, **Buckner J, Alfaro M.** Challenging perceptions of Afroinsectiphilia mammal radiations through comparative macroevolutionary analyses. American Society of Mammalogists Meetings, Minneapolis, Minnesota. (2016) Poster.
- Buckner J, Ellingson R, Sim J, Jacobs D.** Hydrologic mediation of dispersal in Tidewater Gobies in the mid-coast. American Fisheries Society Western Division Meetings, Reno, Nevada. (2016) Oral.
- Buckner JC, Lynch Alfaro J, Rylands AB, Alfaro M.** Biogeography of the Marmosets and Tamarins. Society for Integrative and Comparative Biology Meetings, San Francisco. (2013) Poster.
- J. C. Buckner, J. Lynch Alfaro, A. Rylands, M. Alfaro.** Statistical Phylogeography of the Marmosets and Tamarins. International Primatological Society Meetings, Cancun, Mexico. (2012) Oral.
- Sime, K, Hellquist CE, **Buckner JC.** The relationship between vegetation composition and oviposition behavior of the bog buckmoth, a rare inhabitant of New York peatlands. Great Lakes Research Conference, Oswego, New York. (2012) Poster.

FELLOWSHIPS & GRANTS

- 2018-2019 National Science Foundation. (DBI-1711968) (\$138,000.00)**
“An Empirical Approach to Understanding Extinction by Direct Incorporation of Fossil and Sub-Fossil Morphological and Molecular Data”
NSF Postdoctoral Research Fellowship in Biology
- 2017 UCLA Graduate Division Dissertation Year Fellowship (\$40,000.00)**
“Phylogenomics and Biogeography of Callitrichidae and Cracidae”
- 2016 UCLA Ecology and Evolutionary Biology Lida Scott Brown Fellowship (\$6,500.00)**
“Phylogenomics and Biogeography of Cracidae (Chachalacas, Curassows and Guans)”
- 2016 UCLA Eugene V. Cota-Robles Graduate Fellowship (\$40,825.71)**
- 2015 Fulbright U.S. Student Program, Brazil (\$19,700.00)**
“Phylogenomics and Biogeography of Amazonian Marmosets: Applications to Conservation”
- 2013-2014 UCLA Graduate Assistance in Areas of National Need Graduate Support**

Fellowship (\$20,116.43)
2011-2012 UCLA Eugene V. Cota-Robles Graduate Fellowship (\$48,681.83)

HONORS & AWARDS

2017 Society for the Study of Evolution Travel Stipend (\$500)
2017 EEB Departmental Travel Award (\$300)
2016 EEB Departmental Research Award (\$1000)
2015 EEB Departmental Research Award (\$1000)
2014 American Society of Mammalogists Grants in Aid of Research (\$1000)
2014 Genomic Analysis Training Grant, UCLA, (declined)
2013 Sigma Xi Grants in Aid of Research (\$500)
2013 Charlotte Mangum Student Support Program Travel Award (SICB) (\$500)
2012/13 NSF GRFP Honorable Mention
2012 EEB Departmental Travel Award (\$500)
2011 Empire State Diversity Award, SUNY Oswego (\$1000)
2011 Martin V. Torok Award, SUNY Oswego
2011 Scholarly and Creative Activities Grant, SUNY Oswego (\$1000)

PROFESSIONAL AFFILIATIONS

Society of Systematic Biologists
Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)
International Primatological Society
Sigma Xi

PROFESSIONAL DEVELOPMENT

2019 SACNAS Postdoc Leadership Institute
2019 LSU Collections Boot Camp
2019 University of Michigan NextProf Science Workshop
2018 MBL Workshop on Molecular Evolution
2014 NESCent Course: "Phylogenetic Analysis Using RevBayes"
2014 Central African Biodiversity Alliance Professional Development Workshop
2012 Study and Conservation of Primates in Transformed Habitats: Neotropical Region
2011 State University of New York Global Laboratories in Brazil: Ecology
2008-11 Ronald E. McNair Post-Baccalaureate Achievement Program

PROFESSIONAL SERVICE

- 2018 Reviewer, Nature Ecology and Evolution
 2019 Reviewer, Zoologica Scripta
 2020 Reviewer, Insect Conservation and Diversity
 2020 Reviewer, Evolution
 2020 Reviewer, Neotropical Primates

SERVICE & OUTREACH

- 2020 Member, Society of Systematic Biology Diversity Interim Committee
 2020 Chair, *Inclusiveness, Diversity, Equity and Access (IDEA)* Award Selection Committee
 2020 Mentor, 5th Annual SACNAS One to One Individualized Mentoring Workshop; October 2020
 2020 Featured Scientist, “Girls Road Trip to the Museum” virtual program of LSU Museum of Natural Science and Louisiana Public Broadcasting; June 13, 2020 <https://www.youtube.com/watch?v=laNRvNhjpK8>
 2020 Featured Scientist, “Girls Day at the Museum” at LSU Museum of Natural Science; February 29, 2020
 2020 Volunteer, “Special Saturdays – *Fish, fish, fishes*” at LSU Museum of Natural Science; February 15, 2020
 2020 Volunteer, “Special Saturdays – *Bust a Move*” at LSU Museum of Natural Science; January 25, 2020
 2019 Society of Systematic Biology Representative on the selection committee for the 1st annual ASN/SSE/SSB Inclusiveness, Diversity, Equity, and Access (IDEA) Award
 2019 Mentor, 4th Annual SACNAS One to One Individualized Mentoring Workshop; November 1, 2019
 2019 Invited Lecture, “Imposter syndrome, Stereotype threat and Resilience in Academia” to LAS 245 at ISU; October 1, 2019
 2019 Mentor, ISU SACNAS resume/CV and career planning workshop; April 23, 2019.
 2018 Mentor, 3rd Annual SACNAS 1-on-1 Individualized Mentoring Workshop; October 12, 2018.
 2018 Mentor, 3rd Annual ISU + KU SACNAS Chapter Grant Writing Workshop; September 28-29.
 2018 Invited Mentor: Resume vs. CV workshop for undergraduate STEM students of color. Iowa State University, September 19, 2018.
 2018 Invited Panelist, “Surviving Your First Two Weeks in the Lab”; Workshop for underrepresented students doing first-time summer undergraduate research (e.g. REU Programs). STEM Scholars Program, April 24, 2018.
 2018 Invited Talk, “Figuring It Out: From 1st generation Black Woman to PhD” open talk at ISU for STEM Scholars program and ISU SACNAS chapter; April 10, 2018.
 2016 Mentor, Howard Hughes Medical Institute Pathways to Success program at UCLA.

- 2016 Invited Lecture, “Intro to models of phylogenetic biogeography” to Comparative Biology and Macroevolution Course (EEB 174C) at UCLA; February 18, 2016
- 2015-16 UCLA Ecology and Evolutionary Biology Graduate Research Awards Committee
2014 Recruitment, UCLA Graduate Representative at the national SACNAS conference; October 17, 2014
- 2013-14 Life Sciences Diversity Advisory Committee, Graduate Student Rep
2013-14 Graduate Recruitment Diversity Sub-Committee, Graduate Student Rep
2013 Panelist, Q&A panel for graduate student recruitment to UCLA; July 16 and July 22, 2013.
- 2012 Panelist/McNair Alum., Q&A panel for McNair Scholars seniors at SUNY Oswego applying to graduate school; November 13, 2012.

FIELDWORK

- 2016 3-days trip (near Perris, California); small mammal trapping: mark-recapture, trap setting
- 2015 7-days trip Amazon; specimen collection (various lizards) for physiological measurements
- 2015 7-days trip Amazon; specimen collection and preparation of various trees for subsequent drought tolerance experiments/measurements
- 2015 14-days trip Amazon; medium and large mammal surveys; setting camera traps
2013 1-day trip Los Angeles Area Lagoons; surveying and specimen collection of tidewater gobies
- 2012 5-day trip Catemeco, Veracruz, Mexico; Field Course “Study and Conservation of Primates in Transformed Habitats: Neotropical Region”; primate field research techniques in behavioral studies, parasite monitoring, DNA collection, rehabilitation and reintroduction
- 2011 10-days Pantanal surveys of reptiles and amphibians. Specimen id, aging, morphological measurements, pitfall trap maintenance
- 2010 2 years Specimen and Field Data collection: Bog buckmoth *Hemileuca maia* sp (Undergraduate Honors Thesis); sampling adults for DNA sequencing; collections and measurements of egg masses; quadrat mapping of plant communities