

## CURRICULUM VITAE

### Janet C. Buckner, PhD

Department of Biology  
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[black2nature.weebly.com](http://black2nature.weebly.com)  
[bio-diversity.org](http://bio-diversity.org)

#### EDUCATION

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- 2017 **Ph.D.**, Biology, University of California, Los Angeles  
Dissertation Co-Chairs: Dr. David K. Jacobs and Dr. Michael E. Alfaro  
Dissertation Committee: Dr. Jessica Lynch, Dr. Thomas B. Smith and Dr. Thomas Gillespie
- 2011 **B.S.**, Zoology, Honors, 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

#### ACADEMIC APPOINTMENTS

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- 2022- **Assistant Professor**  
Department of Biology, University of Texas, Arlington
- 2022- **Research Associate**  
Division of Birds, Smithsonian Museum of Natural History
- 2022- **Research Associate**  
Louisiana State University Museum of Natural Science

#### RESEARCH POSITIONS

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- 2020-2021 **Postdoctoral Researcher/Lab Manager**  
Museum of Natural Science, 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

#### FELLOWSHIPS & GRANTS

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- 2022-2026 **National Science Foundation. (BCS-2140660) (\$500,000.00)**  
"RUI: Collaborative Research: Signals of genetic quality and mate choice"
- 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”
- 2014**            **Genomic Analysis Training Grant, UCLA, (declined)**
- 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)**

## PUBLICATIONS

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- Ghezelayagh A, Harrington RC, Burress ED, Campbell MA, **Buckner JC** et. al. (2022) Prolonged morphological expansion of spiny-rayed fishes following the end-Cretaceous. *Nat. Ecol. Evo.* <http://doi.org/10.1038/s41559-022-01801-3>.
- Buckner JC**, Jack KM, Melin AD, Schoof VAM, Gutierrez-Espeleta GA, Lima MGM, Lynch JW (2021) Major histocompatibility complex class II DR and DQ evolution and variation in wild capuchin monkey species (Cebinae). *PLOS ONE* 16(8), e0254604.
- Buckner JC**, Sanders RC, Faircloth BC, Chakrabarty P (2021) The critical importance of vouchers in genomics. *eLife* 10, e68264.
- Jones TL, Coltrain JB, Jacobs DK, Porcasi J, Brewer SC, **Buckner JC**, Perrine JD, Coddling BF (2021) Causes and consequences of the Late Holocene extinction of the marine flightless duck (*Chendytes lawi*) in the northeastern Pacific. *Quaternary Science Reviews* 260, 106914.
- 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, Matauschek 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.
- Buckner JC**, Lynch Alfaro J, Rylands A, Alfaro ME. (2015) Biogeography of the Marmosets and Tamarins. *Molecular Phylogenetics and Evolution* 82, 413-425.
- 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**, Welsh AB, Sime KR. (2014) Evidence for Population Differentiation in the Bog Buckmoth of New York State. *Northeastern Naturalist* 21, 506-514.

## INVITED SEMINARS

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- Universität Bern, Eawag Seminar (November 2021)  
Yale, Ecology and Evolutionary Biology Seminar (October 2021)  
University of New Mexico, Biology Seminar (April 2021)  
Kennesaw State University, Ecology, Evolution and Organismal Biology Seminar (April 2021)

American Museum of Natural History, RGGG Seminar (March 2021)  
University of Florida, Museum of Natural History Seminar (November 2020)  
University of Memphis, Biological Sciences Seminar (November 2020)  
Louisiana State University, Museum of Natural Science Seminar (March 2019)

#### CONFERENCE PRESENTATIONS

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- Buckner JC**, Jack KM, Melin AD, Schoof VAM, Gutierrez-Espeleta GA, Lima MGM, Lynch JW. Variation in MHC Class II DR and DQ exons from wild capuchin monkeys. International Primatological Society Congress (2022) Oral.
- Buckner JC**, *et al* Extinction, ancient DNA and molecular phylogenetics: lessons from subfossil Anseriformes. Geological Society of America (2021) Invited, Oral.
- 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.

#### PROFESSIONAL SERVICE

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| 2022-24 | Council Member, Society of Systematic Biologists   |
| 2021-23 | Society of Systematic Biologists Diversity, Equity and Inclusion Committee                 |
| 2022    | Reviewer, <i>Systematic Biology</i>  |
| 2022    | Reviewer, <i>Genome Biology and Evolution</i>  |
| 2021    | Reviewer, <i>Journal of Biogeography</i>   |
| 2021    | Reviewer, <i>Journal of Mammalogy</i>  |
| 2020    | Society of Systematic Biologists Diversity, Equity and Inclusion Interim Committee         |
| 2020    | Chair, <i>Inclusiveness, Diversity, Equity and Access (IDEA) Award Selection Committee</i> |
| 2020    | Reviewer, <i>Insect Conservation and Diversity</i>   |
| 2020    | Reviewer, <i>Evolution</i>   |
| 2020    | Reviewer, <i>Neotropical Primates</i>  |
| 2019    | ASN/SSE/SSB Inclusiveness, Diversity, Equity, and Access (IDEA) Award Committee            |
| 2019    | Reviewer, <i>Zoologica Scripta</i>   |

2018 Reviewer, *Nature Ecology and Evolution*  
2015-16 UCLA Ecology and Evolutionary Biology Graduate Research Awards Committee  
2013-14 Life Sciences Diversity Advisory Committee, Graduate Student Rep  
2013-14 Graduate Recruitment Diversity Sub-Committee, Graduate Student Rep

## TEACHING

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### 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, 2012/2013

### Workshops

Latin American Macroevolutionary Analysis Workshop, 2015

## HONORS & AWARDS

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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)  
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 Memorial Award, SUNY Oswego  
2011 Scholarly and Creative Activities Grant, SUNY Oswego (\$1000)

## SERVICE & OUTREACH

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2022 Invited Host, "Non-Traditional Jobs In Evolution panel" for Black Women in Ecology, Evolution, and Marine Science (BWEEMS). June 30, 2022  
2021 Organizational team lead, Black in Natural History Museums  
2021 Invited Panelist, Invited Roundtable: Building equity & accessibility to birding through mentorship: A special roundtable w/ path-building Black ornithologists. American Ornithological Society Meeting, August 12, 2021.  
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 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, 3<sup>rd</sup> 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 1<sup>st</sup> 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

#### PROFESSIONAL AFFILIATIONS

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

#### PROFESSIONAL DEVELOPMENT

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- 2019 SACNAS Postdoc Leadership Institute
- 2019 University of Michigan NextProf Science Workshop
- 2018 Marine Biological Laboratory Workshop: Molecular Evolution
- 2014 NESCent Academy Course: “Phylogenetic Analysis Using RevBayes”
- 2014 Central African Biodiversity Alliance Professional Development Workshop
- 2011 State University of New York Global Laboratories in Brazil: Ecology of Herpetofauna
- 2008-11 Ronald E. McNair Post-Baccalaureate Achievement Program

#### FIELDWORK

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- 2021 2-weeks trip Davis Mountains Preserve (near Fort Davis, Texas); small mammal trapping: trap setting, specimen collection, voucher preparation (skins, skeletons and ethanol preps), tissue sampling
- 2019 LSU Collections Boot Camp: field collection of birds using firearms
- 2016 3-days trip (near Perris, California); small mammal trapping: mark-recapture, trap setting
- 2015 7-days trip Reserva Ducke (near Manaus, Amazonas, Brazil); specimen collection of various lizard species for physiological measurements
- 2015 7-days trip Reserva Ducke (near Manaus, Amazonas, Brazil); specimen collection and preparation of various tree species 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 County 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, non-invasive DNA collection, rehabilitation and reintroduction
- 2011 10-days Pantanal surveys of reptiles and amphibians. Species identification, aging, morphological measurements, pitfall trap maintenance
- 2010 2 months 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