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EDUCATION

2009 Ph.D., Stanford University, Biological Sciences
2005 M.A., Humboldt State University, Biology
2000 B.S., University of California, San Diego, Ecology, Behavior, and Evolution

PROFESSIONAL APPOINTMENTS

2018 – Associate Professor, Life and Environmental Sciences, School of Natural Sciences, University of California, Merced
2014 – Research Associate, University of California Museum of Paleontology
2013 – 2018 Assistant Professor, Life and Environmental Sciences, School of Natural Sciences, University of California, Merced
2009 – 2012 Postdoctoral Research Associate, Center for Climatic Research, UW Madison

METRICS (as of July 2018)

[Google Scholar](#): H-index = 19, i10 index = 25

PUBLICATIONS

†indicates a graduate student or postdoctoral advisee, * indicates authors contributed equally

Peer-reviewed publications

- Williams, J.E.† and **J.L. Blois**. Range shifts in response to past and future climate change: Can climate velocities and species' dispersal capabilities explain variation in mammalian range shifts? (2018). *J. Biogeography*, Early View (<https://doi.org/10.1111/jbi.13395>)
- Fitzpatrick, M.C.*, **Blois, J.L.***, Williams, J.W., Nieto-Lugilde, D., Maguire, K.C.†, Lorenz, D. (2018). How will climate novelty influence ecological forecasts? Using the Quaternary to assess future reliability. *Global Change Biology* 24(8): 3575-3586
- Williams JW, Grimm EC, **Blois JL**, Charles DF, Davis E, et al. (2018). The Neotoma Paleoecology Database, a multiproxy, international, community-curated data resource. *Quaternary Research* 89(1):156-177
- Nieto-Lugilde, D., Maguire, K.C.†, **Blois, J.L.**, Williams, J.W. and M.C. Fitzpatrick (2018). Community-level modeling: Theory, recent advances, and applications. *Methods in Ecology and Evolution* 9(4): 834-848
- Barnosky, A.D., Hadly, E.A., Gonzalez, P., Head, P., Polly, P. D., Lawing, A.M., Eronen, J.T., Ackerly, D.D., Alex, K., Biber, E., **Blois, J.L.**, Brashares, J., Ceballos, G., Davis, E., Dietl, G.P., Dirzo, R., Doremus, H., Fortelius, M., Greene, H., Hellmann, J., Hickler, T., Jackson, S.T., Kemp, M., Koch, P.L., Kremen, C., Lindsey, E.L., Looy, C., Marshall, C.R., Mendenhall, C., Mulch, A., Mychajliw, A.M., Nowak, C., Ramakrishnan, U., Schnitzler, J., Das Shrestha, K., Solari, K., Stegner, L., Stegner, M.A., Stenseth, N.C.,

- Wake, M.H., and Z. Zhang (2017). Merging Paleobiology With Conservation Biology to Guide the Future of Terrestrial Ecosystems. *Science* 355: eaah4787
- Blonder, B., Moulton, D., **Blois, J.L.**, Enquist, B.J., Graae, B., Macias-Fauria, M., McGill, B.J., Nogué, S., Ordonez, A., Sandel, B., and J-C Svenning (2017). Predictability in community dynamics. *Ecology Letters* 20: 293-306
- Lawing, A.M.* , Eronen, J.T.* , **Blois, J.L.*** , Graham, C., & P.D. Polly (2017). Community functional trait composition at the continental scale: the effects of non-ecological processes. *Ecography* 40(5): 651-663
- Brown, S.K.† and **J.L. Blois** (2016). Ecological insights from ancient DNA. *eLS* 1-7.
- Dawson, Michael N, Axmacher, Jan C, Beierkuhnlein, Carl, **Blois, Jessica L**, Bradley, Bethany A, Cord, Anna F, Dengler, Jürgen, He, Kate S, Heaney, Lawrence S, Jansson, Roland, Mahecha, Miguel D, Myers, Corinne, Nogués-Bravo, David, Papadoupoulou, Anna, Reu, Björn, Rodríguez-Sánchez, Francisco, Steinbauer, Manuel J, and Alycia Stigall (2016) A second horizon scan of biogeography: Golden Ages, Midas touches, and the Red Queen. *Frontiers of Biogeography* 8.4: e29770
- Brown, S.K.† and **J.L. Blois** (2016). The complete mitochondrial genome of the dusky-footed woodrat (*Neotoma fuscipes*) (Rodentia, Cricetidae). *Mitochondrial DNA Part B: Resources* 1(1): 728-729
- Lorenz, D.J., Nieto-Lugilde, D., **Blois, J.L.**, Fitzpatrick, M.C., and J.W. Williams (2016). Downscaled and debiased climate simulations for North America from 21,000 years ago to 2100AD. *Scientific Data* 3: 160048
- Maguire, K.C.** , Nieto-Lugilde, D.* , **Blois, J.L.**, Fitzpatrick, M.C., Williams, J.W., Ferrier, S. and D.J. Lorenz (2016). Controlled comparison of species- and community-level models across novel climates and communities. *Proceedings of the Royal Society Series B* 283: 20152817
- Lyons, S.K., Amatangelo, K.L., Behrensmeyer, A.K., Bercovici, A., **Blois, J.L.**, Davis, M., DiMichele, W.A., Du, A., Eronen, J.T., Faith, J.T., Graves, G.R., Jud, N., Labandeira, C., Looy, C.V., McGill, B., Miller, J.H., Patterson, D., Pineda-Munoz, S., Potts, R., Riddle, B., Terry, R., Tóth, A., Ulrich, W., Villaseñor, A., Wing, S., Anderson, H., Anderson, J., and N. J. Gotelli (2016). Lyons et al. reply. *Nature* 537: E5-6
- Lyons, S.K., Amatangelo, K.L., Behrensmeyer, A.K., Bercovici, A., **Blois, J.L.**, Davis, M., DiMichele, W.A., Du, A., Eronen, J.T., Faith, J.T., Graves, G.R., Jud, N., Labandeira, C., Looy, C.V., McGill, B., Miller, J.H., Patterson, D., Pineda-Munoz, S., Potts, R., Riddle, B., Terry, R., Tóth, A., Ulrich, W., Villaseñor, A., Wing, S., Anderson, H., Anderson, J., Waller, D. and N. J. Gotelli (2016). Holocene shifts in the assembly of terrestrial plant and animal communities implicate increasing human impacts. *Nature* 529: 80-83
- Blois, J.L.** and J.E. Williams† (2016). Quaternary biogeography and climate change. in R. Kliman, editor. *Encyclopedia of Evolutionary Biology*. vol. 3: 395–405. Oxford: Academic Press.
- DeNeve Weeks, D.†, Nye, J.†, and **J.L. Blois** (2015). Monotypic species and extinction risk: looking at Lagomorphs. *Frontiers of Biogeography* 7.2: 35-37
- Maguire, K.C.†, Nieto Lugilde, D., Fitzpatrick, M.C., Williams, J.W., and **J.L. Blois** (2015). Modeling species and community responses to past, present, and future episodes of climatic and ecological change. *Annual Review of Ecology, Evolution, and Systematics* 46: 343-368
- Blois, J.L.** and E.A. Hadly (2015). Fossils Predict Biological Responses to Future Climate Change. in T. L. Root , K. R. Hall, M. Herzog, and C. A. Howell, editors. *Biodiversity in a Changing Climate: Linking Science and Management in Conservation*. University of California Press
- Gill, J.L., **Blois, J.L.**, Benito, B., Dobrowski, S., Hunter Jr., M.L., and J.L. McGuire (2015). Conserving the stage for 10,000 years: a paleoecological perspective on coarse-filter strategies. *Conservation Biology* 29:

- Jackson, S.T. and **J.L. Blois** (2015). Community ecology in a changing environment: Perspectives from the Quaternary. *Proceedings of the National Academy of Sciences* 112: 4915–4921
- Nieto Lugilde, D., Maguire, K.C.†, **Blois, J.L.**, Williams, J.W., Fitzpatrick, M.C. (2015). Close agreement between pollen-based and forest inventory-based models of vegetation turnover. *Global Ecology and Biogeography* 24(8): 905-916 ►
- Gavin, D.G., Fitzpatrick, M.C., Gugger, P.F., Heath, K.D., Rodríguez-Sánchez, F., Dobrowski, Hampe, A., Hu, F.S., S., Ashcroft, M.B., Bartlein, P.J., **Blois, J.L.**, Carstens, B.C., Davis, E., de Lafontaine, G., Edwards, M.E., Fernandez, M., Henne, P.D., Herring, E.M., Holden, Z.A., Kong, W., Liu, J., Magri, D., Matzke, N.J., McGlone, M.S., Saltré, F., Stigall, A.L., Tsai, Y.E., Williams, J.W. (2014). Climate refugia: joint inference from fossil records, species distribution models and phylogeography. *New Phytologist* 204:37-54.
- Blois, J.L.**, Gotelli, N., Behrensmeier, A.K., Faith, J.T., Lyons, S.K., Williams, J.W., Amatangelo, K.L., Bercovici, A., Du, A., Eronen, J.T., Graves, G.R., Jud, N., Labandeira, C., Looy, C.V., McGill, B., Patterson, D., Potts, R., Riddle, B., Terry, R.C., Tóth, A., Villaseñor, A., and S. Wing. (2014) A framework for evaluating the influence of climate, dispersal limitation, and biotic interactions using fossil pollen associations across the late Quaternary. *Ecography* 37: 1095–1108.
- Blois, J.L.** (2013). Narrowing the estimates of species migration rates. *Frontiers of Biogeography* 5(3): 171-172
- Williams, J.W., **Blois, J.L.**, Gill, J.L., Gonzalez, L.M., Grimm, E.C., Jackson, S.T., Ordonez, A., Shuman, B., and S.D. Veloz (2013). Model systems for a no-analog future: Species associations and climates during the last deglaciation. *Annals of the New York Academy of Sciences* 1297: 29-43.
- Blois, J.L.**, Zarnetske, P.L., Fitzpatrick, M.C., and S. Finnegan (2013c). Climate change and the past, present, and future of biotic interactions. *Science* 341: 499-504.
- Blois, J.L.**, Williams, J.W., Fitzpatrick, M.C., Jackson, S.T., and S. Ferrier (2013b). Space can substitute for time in predicting climate-change effects on biodiversity *Proceedings of the National Academy of Sciences* 110: 9374-9379.
- Blois, J.L.**, Williams, J.W., Fitzpatrick, M.C., Ferrier, S., Veloz, S., He, F., Liu, Z., Manion, G., and B. Otto-Bliesner (2013a). Modeling the climatic drivers of spatial patterns in vegetation composition since the Last Glacial Maximum. *Ecography* 36: 460-473.
- Uhen, M.D., Barnosky, A.D., Bills, B., **Blois, J.L.**, Carrasco, M.A., Carrano, M.T., Erickson, G.M., Eronen, J., Fortelius, M., Graham, R.W., Grimm, E.C., O’Leary, M., Mast, A., Piel, W., Polly, P.D., and L.K. Säilä (2013). From cards catalogs to computers: Databases in vertebrate paleontology. *Journal of Vertebrate Paleontology* 33(1): 13-28.
- Gill, J.L., **Blois, J.L.**, Goring, S., Marlon, J.R., Bartlein, P.J., Nicoll, K., Scott, A.C., and C. Whitlock (2012). Letter to the Editor: Paleoecological changes at Lake Cuitzeo were not consistent with an extraterrestrial impact. *Proceedings of the National Academy of Sciences* 109(34): E2243
- Goring, S.J., Williams, J.W., **Blois, J.L.**, Jackson, S.T., Paciorek, C.J., Booth, R.K., Marlon, J.R., Blaauw, M. and J.A. Christen (2012). Deposition times in the northeastern United States during the Holocene: establishing valid priors for Bayesian age models. *Quaternary Science Reviews* 48: 54-60.
- Clark, P.U., Shakun, J.D., Baker, P.A., Bartlein, P.J., Brewer, S., Brook, E.J., Carlson, A.E., Cheng, H., Kaufman, D.S., Liu, Z., Marchitto, T.M., Mix, A.C., Morrill, C., Otto-Bliesner, B., Pahnke, K., Russell, J.M., Whitlock, C., Adkins, J.F., **Blois, J.L.**, Clark, J., Colman, S.C., Curry, W.B., Flower, B.P., He, F.,

- Johnson, T.C., Lynch-Stieglitz, J., Markgraf, V., McManus, J.F., Mitrovica, J.X., Moreno, P.I., and J.W. Williams (2012). Global climate evolution during the last deglaciation. *Proceedings of the National Academy of Sciences* 109: E1134-42.
- Veloz, S., Williams, J.W., **Blois, J.L.**, He, F., Otto-Bliesner, B., and Z. Liu. (2012). No-analog climates and shifting realized niches during the late Quaternary: implications for 21st-century predictions by species distribution models. *Global Change Biology* 18: 1698-1713.
- Blois, J.L.** (2012). Stemming “ignorance creep” in paleoecology and biogeography. *Frontiers of Biogeography* 4.3: 93-94
- Blois, J.L.** (2012). Recent advances in using species distributional models to understand past distributions. *Frontiers of Biogeography* 3(4): 123-124
- Blois, J.L.**, Williams, J.W., Grimm, E.C., Jackson, S.T., and R.W. Graham (2011). A methodological framework for assessing and reducing temporal uncertainty in paleovegetation mapping from late-Quaternary pollen records. *Quaternary Science Reviews* 30: 1926-1939.
- Williams, J.W., **Blois, J.L.**, and B. Shuman (2011). Extrinsic and intrinsic forcing of abrupt ecological change: Case studies from the late Quaternary. *Journal of Ecology* 99: 664-677.
- Blois, J.L.**, McGuire, J.L., and E.A. Hadly (2010). Small mammal diversity loss in response to late-Pleistocene climatic change. *Nature* 465: 771-774.
- Blois, J.L.** and E.A. Hadly (2009). Mammalian response to Cenozoic climatic change. *Annual Review of Earth and Planetary Sciences* 37: 181-208.
- Blois, J.L.**, Feranec, R.S., and E.A. Hadly (2008). Environmental influences on spatial and temporal patterns of body-size variation in California ground squirrels (*Spermophilus beecheyi*). *Journal of Biogeography* 35: 602-613.
- Feranec, R.S., Hadly, E.A., **Blois, J.L.**, Barnosky, A.D. & A. Paytan (2007). Radiocarbon dates from the Pleistocene fossil deposits of Samwel Cave, Shasta County, California, USA. *Radiocarbon* 49: 117-121.
- Blois, J.L.** and B.S. Arbogast (2006). Conservation genetics of the Sonoma tree vole (*Arborimus pomo*) based on mitochondrial and AFLP markers. *Journal of Mammalogy* 87: 950-960.

Other publications

- Blois, J.L.**, Goring, S. and A. Smith (2011). Integrating paleoecological databases. *Eos* 92(6): 48.
- Blois, J.L.** (2012). Once and Future Giants. What Ice Age Extinctions Tell Us About the Fate of Earth’s Largest Animals by Sharon Levy. Invited book review, *Quarterly Review of Biology* 87(1): 53-54.

In review or revision

- Boria RA, Blois JL. The effect of large sample sizes on ecological niche models: analysis using a North American rodent, *Peromyscus maniculatus*. (in revision, *Ecological Modelling*)
- Knight, C.†, **Blois, J.L.**, Blonder, B., Macias-Fauria, M., Ordonez, A., Svenning, J-C. Quantifying environmental mismatch and filtering in North American pollen assemblages since the Last Glacial Maximum. (in revision, *Ecography*)
- Rapacciuolo, G.† and J.L. Blois. Understanding community dynamics in space and time: integrating data and methods in light of theory. (in revision, E4 award, *Ecography*)

GRANTS

- 2019–21 NSF-OAC (*pending*). Collaborative Research: All extinction is regional: synthesizing dark data to assess drivers of the end-Pleistocene megafaunal extinction event
- 2018–23 NSF-EAR. CAREER: From genes to assemblages: causes and consequences of spatiotemporal population variation across millennia in small mammals \$782,449 to JL Blois
- 2016–17 UC Merced Faculty Research Grant: The relationship among climate, traits, and genetic diversity in a generalist species: identifying early indicators of vulnerability. \$5,000 to JL Blois
- 2016–19 NSF-EAR. Collaborative Research: Assessing millennial-scale community dynamics using highly-resolved mammal and vegetation food webs. \$279,659 to JL Blois
- 2016–18 NSF-EAR. Collaborative Research: Neotoma Paleoecology Database, Community-led Cyberinfrastructure for Global Change Research, with members of the Neotoma Database. \$89,166 to JL Blois
- 2015–17 NSF-ICER. EarthCube IA: Collaborative Proposal: Building Interoperable Cyberinfrastructure (CI) at the Interface between Paleogeoinformatics and Bioinformatics, with members of Neotoma and Paleobiology Databases. \$66,118 to JL Blois
- 2013–16 NSF-DEB. Collaborative Research: Incorporating Biotic Interactions into Models of Species Assemblages under Climate Change: A Comparison of Single-Species and Community-Level Approaches. \$229,322 to JL Blois
- 2014–15 UC Merced Faculty Research Grant: Sensitivity of northern California small mammals to past climate, habitat, and biotic change. \$4,757 to JL Blois
- 2013–17 NSF. Dimensions of Biodiversity: Do Parallel Patterns Arise from Parallel Processes? Senior Personnel. \$101,764 to JL Blois

FELLOWSHIPS AND AWARDS

- 2017 MacArthur and Wilson Award from the International Biogeography Society
- 2010 DISCCRS V Symposium Scholar
- 2009–11 NESCent Postdoctoral Fellowship (*declined*)
- 2009 Alternate, NOAA Climate and Global Change Postdoctoral Fellowship
- 2009 Centennial Teaching Assistant award
- 2008–10 SCORE grant (on behalf of the Stanford Biology department)
- 2007 Biological Impacts of Climate Change in California Fellowship
- 2007 Society of Vertebrate Paleontology Annual Meeting Travel Grant
- 2007 International Biogeography Society Biennial Conference Travel Grant
- 2006 Sigma Xi Grant-in-Aid of Research
- 2005 Center for Evolutionary Studies grant recipient, Stanford University
- 2003 American Society of Mammalogists Grant-in-Aid of Research
- 2003 Humboldt State University Biology Department Master's Grant
- 1996–2000 National Merit Scholarship

PLENARY AND AWARD TALKS

- 2017 MacArthur and Wilson Award Talk, International Biogeography Association Biennial Meeting, Jan 12. Biogeography in a Changing Environment: Perspectives from the Late Quaternary
- 2016 Keynote Speaker, UC Mathias Symposium, Feb 27. Ecological Processes in a Changing Environment: Perspectives from the Past.
- 2015 Plenary Talk, International Union for Quaternary Science Congress, Jul 27. Ecological Processes in a Changing Environment: Perspectives from the Quaternary.

INVITED SEMINAR PRESENTATIONS

- 2017 Texas A&M University, Ecology and Evolutionary Biology Doctoral Program, Apr 17. Temporal dynamics of ecological patterns and processes.
- 2016 UC Los Angeles Department of Ecology and Evolutionary Biology, Nov 9. Impact of climate novelty: translating insights from the past to projections for the future.
- 2016 George Washington University, Center for the Advanced Study of Human Paleobiology, Mar 23. Ecological Processes in a Changing Environment: Perspectives from the Late Quaternary.
- 2016 UC Santa Barbara Ecology, Evolution, and Marine Biology Seminar Series, Mar 7. Ecological Processes in a Changing Environment: Perspectives from the Past.
- 2015 CSU Fresno Biology Seminar Series, Nov 6. Ecological Processes in a Changing Environment: Perspectives from the Quaternary.
- 2015 University of Tennessee Knoxville Ecology and Evolutionary Biology Seminar Series, Mar 27. Community Ecology in a Changing Environment: Perspectives from the Quaternary.
- 2014 UC Davis Geology Seminar Series, Jun 4. Ecological responses to environmental change: using the past as a lens into the future.
- 2014 UC Merced Sierra Nevada Research Institute Research Week Symposium, Mar 10. Drought in the paleo record: signatures and responses.
- 2013 UC Berkeley Department of Integrative Biology, Nov 21. Ecological responses to environmental change: using the past to understand the future
- 2013 York University Department of Biology, Nov 18. Ecological responses to environmental change: using the past to understand the future
- 2013 University of Chicago Department of Geophysical Sciences, Oct 18. Ecological responses to environmental change: using the past to understand the future.
- 2013 UC Merced Environmental Systems Seminar, Apr 3. Quaternary paleoecology: looking backwards for insights into the future
- 2012 Brown University Ecology and Evolutionary Biology Seminar Series, Nov 6. Space-for-time substitution: modeling community turnover in eastern North American pollen communities during the late Quaternary.
- 2012 University of New Mexico Seminar in Integrative Biological and Biomedical Science, Mar 28. Community responses to paleoclimate change.
- 2012 University of Michigan Early Career Scientists Symposium, Mar 25. Climate controls on temporal variation in beta diversity.

INVITED CONFERENCE TALKS

- 2017 Fitzpatrick, M.C., **Blois, J.L.**, Nieto-Lugilde, D., Maguire, K., Williams, J.W. How novel is too novel? Using the paleo-record to define the limits on projections of biodiversity under climate. Modeling Large-Scale Ecological and Evolutionary Dynamics Symposium, International Society of Biogeography Biennial Meeting, Tucson, AZ, Jan 10.
- 2016 **Blois, J.L.**, Fitzpatrick, M.C., Nieto-Lugilde, D., Maguire, K., Williams, J.W. Using paleodata to test the assumptions and accuracy of biogeographic models. Paleoecology: Tools, Models, and Novel Approaches Symposium, American Quaternary Association Biennial Meeting, Jun 30.
- 2015 **Blois, J.L.** Ecological Baselines for Decision Making. Our Changing Planet Workshop, Sep 14.
- 2015 **Blois, J.L.** and S.T. Jackson. Biodiversity across varying environments: Mechanisms of compositional stasis and change. Understanding Temporal Trends of Biodiversity Symposium, Ecological Society of America Annual Meeting, Aug 11.
- 2014 **Blois, J.L.** 21,000 years of shifting species, communities, and biotic associations in response to past climate change. Climate and Beyond: Cumulative Impacts on Species Range Shifts Symposium, Ecological Society of America Annual Meeting, Aug 14.

- 2014 Dawson, Michael N., Atahan, Pia, Beman, J. Michael, **Blois, Jessica L.**, Haberle, Simon G., Lipps, Jere H., McGee, Tessa, Myers, Robert F., Patris, Sharon, Sachs, Julian P., Stibor, Herwig. Origins, maintenance, and loss of biodiversity in marine lakes. Island Biogeography, from the Oceans to the Sky: Recent Advances and an Emerging Synthesis Symposium, Ecological Society of America Annual Meeting, Sacramento, CA.
- 2014 **Blois, J.L.** Ecological Responses to Environmental Change: Using the Past to Understand the Future. Unifying Ecology Across Scales Gordon Research Conference, Jul 24.
- 2013 **Blois, J.L.** Long-term perspectives on biotic interactions in a changing world. Sigma Xi Symposium, UC Merced, Mar 7.
- 2013 **Blois, J.L.**, Williams, J.W., Fitzpatrick, M.C., Jackson, S.T., Ferrier, S. Can space substitute for time in predicting climate-change effects on biodiversity? The Convergence of Conservation Paleontology and Biogeography Symposium, International Biogeography Society Biennial Meeting, Jan 11.

CONTRIBUTED CONFERENCE TALKS AND POSTERS (SINCE 2013)

- 2017 Fox, Nathaniel S.†, Southon, John R., Fuller, Benjamin T., Takeuchi, Gary T., Farrell, Aisling B., Lindsey, Emily L., **Blois, Jessica L.** A Tale of Two Faunas: Small Mammal Paleoecology within and among Project 23 Deposits at Rancho La Brea. Poster, Society of Vertebrate Paleontology Annual Meeting, Calgary, AB.
- 2017 Williams, J. Eric† and **Blois, Jessica L.** Determining patterns of community assembly using species distribution models and Late Quaternary fossil assemblages. Poster, American Society of Mammalogists Annual Meeting, Moscow, ID.
- 2017 Boria, Robert A.†, Brown, Sarah K.†, and **Blois, Jessica L.** Genetic structure and diversity through time for northern California *Peromyscus maniculatus*. Poster, Evolution Meeting, Portland, OR.
- 2017 Williams, J. Eric† and **Blois, Jessica L.** Determining patterns of community assembly over the last 18,000 years using species distribution models and Late Quaternary fossil assemblages. Poster, International Biogeography Society Biennial Meeting, Tucson, AZ
- 2017 Boria, Robert A.† and **Blois, Jessica L.** The effect of large sample sizes on Ecological Niche Models: analysis using a North American rodent, *Peromyscus maniculatus*. Poster, International Society of Biogeography Biennial Meeting, Tucson, AZ.
- 2016 **Blois, Jessica L.**, Brown, Sarah K.†, Hadly, Elizabeth A. Assessing cross-contamination in ancient DNA from temperate cave deposits. Poster, Annual Society of Vertebrate Paleontology Meeting, Salt Lake City, UT.
- 2016 Fox, Nathaniel S.†, **Blois, Jessica L.**, Farrell, Aisling B., and Takeuchi, Gary T. Initial Assessment of Project 23 Small Mammal Diversity and Taphonomy at Rancho La Brea. Poster, Annual Society of Vertebrate Paleontology Meeting, Salt Lake City, UT.
- 2016 Brown, Sarah K.†, and **Blois, Jessica L.** Identifying loci of adaptive significance in the widely-distributed dusky-footed woodrat (*Neotoma fuscipes*). Evolution Meeting, Austin, TX.
- 2016 Williams, J. Eric† and **Blois, Jessica L.** The effects of dispersal ability and climate velocity on the extent of species range shifts since the Last Glacial Maximum. Poster, American Quaternary Association Meeting, Santa Fe, New Mexico.
- 2016 Fox, Nathaniel S.† and **Blois, Jessica L.** Preliminary Analysis of Small Mammal Fossils from "Project 23" at Rancho La Brea, Los Angeles, CA. Poster, Western Association of Vertebrate Paleontologists Annual Meeting - Anza Borrego, CA.
- 2015 DeNeve Weeks, D.† and **Blois, Jessica L.** Climatic niche breadth, range size, and habitat specialization in otters. Poster, Ecological Society of America Annual Meeting - Baltimore, MD.
- 2015 Nieto-Lugilde, D., Maguire, K.C.†, **Blois, Jessica L.**, Williams, J.W., and Fitzpatrick, M.C. Correcting bias in the fossil record to improve pooled niche estimation and species distribution model transferability. Talk, Ecological Society of America Annual Meeting - Baltimore, MD.

- 2015 Pradhan, Kavya, Nieto-Lugilde, D., Maguire, K.C.†, **Blois, Jessica L**, Fitzpatrick, M.C., and Williams, J.W. Using community phylogenetics to assess changes in plant assemblages since the last glacial maximum. Poster, Ecological Society of America Annual Meeting - Baltimore, MD.
- 2015 Lyons, S. Kathleen, and 29 co-authors including J.L. Blois. Species associations of plant and mammal communities from deep time to the recent. Talk, Ecological Society of America Annual Meeting - Baltimore, MD.
- 2015 Maguire, K.C.†, Nieto-Lugilde, D., **Blois, Jessica L**, Fitzpatrick, M.C., Williams, J.W. Community-level model performance across large temporal scales and periods of climatic novelty. Talk, Ecological Society of America Annual Meeting - Baltimore, MD.
- 2015 Williams, J. Eric† and **Blois, Jessica L**. The effects of dispersal ability and climate velocity on the extent of species range shifts since the Last Glacial Maximum. Talk, Ecological Society of America Annual Meeting - Baltimore, MD.
- 2015 **Blois, Jessica L** and Stephen T. Jackson. Biodiversity across Varying Environments: Accumulation, Loss, or Stasis. Poster and Flash Talk, International Biogeography Society Biennial Meeting, Bayreuth, Germany.
- 2015 Williams, J. Eric† and **Blois, Jessica L**. The effects of dispersal ability and climate velocity on the extent of species range shifts. Poster, International Biogeography Society Meeting, Bayreuth, Germany.
- 2015 Maguire, K.C.†, Nieto-Lugilde, D., **Blois, Jessica L**, Fitzpatrick, M.C., Williams, J.W. Community level models outperform traditional species distribution models in no analog climates. Poster, International Biogeography Society Meeting, Bayreuth, Germany.
- 2015 Nieto-Lugilde, D., Maguire, K.C.†, Fitzpatrick, M.C., **Blois, Jessica L**, and Williams, J.W. Improving species distribution models transferability by incorporating co-occurrence pattern and the fossil record. Poster, International Biogeography Society Meeting - Bayreuth, Germany.
- 2014 Goring, Simon, Williams, John W., Grimm, Eric, Graham, Russell W., McLachlan, Jason, **Blois, Jessica L.**, Paciorek, Chris J., and Dawson, Andria. Age models in large scale synthesis- de novo or status quo? Talk, Geological Society of America, Vancouver, BC
- 2014 Nieto-Lugilde, Diego, Fitzpatrick, Matthew C., Maguire, Kaitlin Clare†, **Blois, Jessica L.**, Williams, John W. Vegetation changes during the late Quaternary: Predicting ability of community level models across time. Talk, Ecological Society of America Annual Meeting, Sacramento, CA.
- 2014 Maguire, Kaitlin Clare†, Nieto-Lugilde, Diego, **Blois, Jessica L.**, Fitzpatrick, Matthew C., Williams, John W. Reconstructing vegetation distribution patterns through the late Quaternary: incorporating species associations through community level models. Poster, American Quaternary Association Biennial Meeting, Seattle, WA.
- 2013 Lyons, S. Kathleen, and 21 co-authors including **Jessica L. Blois**. Testing patterns of co-occurrence among plant and mammal species in community assemblages from deep time to the recent. Talk, Geological Society of America Annual Meeting, Denver, CO.
- 2013 **Blois, Jessica L.**, and 22 co-authors. The influence of climate and dispersal limitation on the stability of biotic associations across the late Quaternary. Talk, IBS Geography of Species Associations Meeting Montreal, QC.
- 2013 **Blois, Jessica L.**, Li, Cheng (Lily), Hadly, Elizabeth A. The influence of late Quaternary climates on species distribution, abundance, and genetic diversity of northern California pocket gophers. Poster, Society of Vertebrate Paleontology Annual Meeting, Los Angeles, CA.
- 2013 **Blois, Jessica L.**, Li, Cheng (Lily), Hadly, Elizabeth A. Hindcasting the late Quaternary climatic influence on species distribution, abundance, and genetic diversity of northern California pocket gophers. Talk, Ecological Society of America Annual Meeting, Minneapolis, MN.

EDUCATIONAL ACTIVITIES (with class evaluation scores, out of 7 points)

- 2014- Instructor of Record for Community Ecology (ES/QSB 146)
- Fall 2014: 6.9 and 7 (two different enrollments, one per grad group)
 - Fall 2015: 6.7 and 6.8 (two different enrollments, one per grad group)
- 2013- Instructor of Record for Paleocology (ESS 129 / Bio 129 / ES 229)
- Spring 2013: 6.7, range of average 6.3 to 7 for individual questions
 - Spring 2015: 6.8, range of average 6.5 to 6.9 for individual questions
 - Fall 2016: 6.7, range of average 6.4 to 7 for individual questions
- 2014-17 Instructor of Record for Ecosystems of California (ESS 50)
- Spring 2014: 6.3, range of average 5.7 to 6.8 for individual questions
 - Spring 2016: 5.8, range of average 5.0 to 6.6 for individual questions
 - Spring 2017: 6.5, range of average 5.9 to 6.8 for individual questions
- 2016-17 Guest lectures on Population Ecology for the UC Merced BIO 001 undergraduate class
- 2015 Faculty mentor, Assessment as Pedagogy and Planning Learning Community
- 2010-12 Lectures on Phylogeography & Phylochronology, the Last Glacial Maximum, UW-Madison
- 2006 Teaching Assistant, Ecology, Stanford (with lecture on Island Biogeography & Dispersal)
- 2006 Teaching Assistant, Evolutionary Paleobiology, Stanford (with lectures on 22Fossilization & Taphonomy, Biotic Turnover)
- 2005 Teaching Assistant, Plant Biology, Evolution, and Ecology, Stanford
- 2004 Teaching Assistant, General Biology for Non-Majors, Humboldt State
- 2003 Spring and Fall, Teaching Assistant, General Ecology Lab, Humboldt State
- 2002 Teaching Assistant, General Biology for Non-Majors, Humboldt State

WORKING GROUPS AND WORKSHOPS

- 2017- PACE: Paleocology and Community Ecology Working Group
- 2015- University of California ISEECI History Working Group
- 2013- South American Megafaunal Extinctions Working Group
- 2012- iCCB Working Group: Traits, Niches & Climate as common coinage
- 2012- NMNH Evolution of Terrestrial Ecosystems, Community Assembly and Disassembly Working Group
- 2012 Climate Refugia: Joint Inference from Fossils, Genetics & Models. Eugene, OR
- 2012 ESWN Networking and Communications Workshop. Madison, WI

UNIVERSITY SERVICE

LIFE AND ENVIRONMENTAL SCIENCES BYLAW 55 UNIT

- 2014 Search committee member, Global Change Evolutionary Biologist and Ecological Modeler cluster hire
- 2013 ESS Curriculum Workshop Co-coordinator

SCHOOL OF NATURAL SCIENCES

- 2018 Participant, Faculty Support Retreat Speed Networking Activity
- 2016-17 LES representative, Natural Sciences Executive Committee

GRADUATE GROUPS

- 2015- Co-Chair, Quantitative and Systems Biology Seminar Committee
- 2017 Lab Tour, Graduate Studies at UC Merced, CSU Los Angeles LSAMP Scholars, Jun 26.
- 2017 GradSlam Judge

- 2014-16 Secretary, Quantitative and Systems Biology Graduate Group Executive Committee
- 2013-16 Chair (2014-16) and Member (2013-14), Environmental Systems Graduate Group Admissions Committee
- 2014 Chair, Quantitative and Systems Biology Mission and Vision Committee
- 2014 Talk, Graduate Studies at UC Merced, CSU Channel Islands LSAMP Scholars, Oct 3.

UNIVERSITY

- 2018- Co-chair, Chancellor's Advisory Committee on the Status of Women
- 2015- Presenter, "Ecosystems of California", UC California Naturalist Certification Program
- 2015- Mentor, Women in STEM (3 mentees to date)
- 2018 Panelist, New Faculty Welcome Faculty Panel
- 2017-18 Member, Faculty Welfare and Academic Freedom Committee
- 2017 Co-organizer, Software Carpentry Workshop for UCM Scholars
- 2017 Committee, Science and Health Writer with University Communications
- 2017 W-STEM panelist on "W-STEM Q&A Session"
- 2014-15 Vice-Chair, Vernal Pools and Grassland Reserve Advisory Committee
- 2015 WRI 116 Undergraduate Proposal Contest Adjudication
- 2015 Member, ISEECI GSR Review Committee
- 2015 W-STEM panelist on "First Steps of Navigating the Academic Job Market"

UC SYSTEM

- 2015 Member, UC NRS Berkeley Natural Reserves Review Committee

EDITORIAL SERVICE

- 2015- Subject editor, *Ecography*
- 2011- Associate editor, *Frontiers of Biogeography*

GRANT REVIEWS

- 2014 Panelist, National Science Foundation Division of Environmental Biology
- 2009- Ad hoc reviewer for: NSF, NERC, Australian Antarctic Program, US Army

PROFESSIONAL SERVICE

- 2017- Member, Advisory Committee, Australian Research Council Centre of Excellence for Australian Biodiversity and Heritage
- 2016- Associate Chair, Neotoma Paleocology Database Executive Committee
- 2014- Paleobiology Councilor, American Quaternary Association
- 2013- Steering committee member, NMNH Evolution of Terrestrial Ecosystems Research Coordination Network
- 2010- Co-chair, Vertebrate Working Group, Neotoma Paleocology Database
- 2010- Data steward for mammals, Neotoma Paleocology Database
- 2006- Manuscript Reviewer for: *The Auk*, *Animal Conservation*; *Biological Journal of the Linnean Society*; *Biological Reviews*; *Diversity and Distributions*; *Ecography*; *Ecological Monographs*; *Ecology Letters*; *Ecosphere*; *Frontiers in Ecology and the Environment*; *Global Change Biology*; *Global Ecology and Biogeography*; *The Holocene*; *Journal of Biogeography*; *Journal of Mammalogy*; *Landscape Ecology*; *Mammalian Biology*; *Molecular Ecology*; *Nature Education*; *Nature Geoscience*; *Paleobiology*; *Palaeogeography*, *Palaeoclimatology*, *Palaeoecology*; *Proceedings of the National Academy of Sciences USA*; *Proceedings of the Royal Society B*; *Quaternary Research*; *Science*; *Scientific Data*; *Vegetation History and Archaeobotany*

- 2014 Reviewer for Early Career Travel Awards and Conference Abstracts, IBS Biennial Meeting
- 2011-14 Co-editor, Quaternary Times Newsletter (American Quaternary Association)
- 2010-11 Organizer, Climate, People, and Environment Program Seminar, UW Madison
- 2010 Organizer/co-host, Neotoma Consortium workshop, September 23-26th, Madison, WI
- 2008-09 Head Mentor TA, Department of Biology, Stanford University
- 2007-09 Stanford Center for Teaching and Learning Department Liaison
- 2008 Panel Discussion Lead Organizer, 2008 Young Environmental Scholars Workshop
- 2006-08 Faculty/grad student liaison, Department of Biological Sciences, Stanford
- 2005-07 Eco-Evo Poo-bah, Department of Biological Sciences, Stanford
- 2003-04 Vice President, Biology Graduate Student Association (Humboldt State University)

OUTREACH AND DIVERSITY ACTIVITIES

- 2014- Regular attendee, UC Merced Fiat Lux Scholars Program Faculty Receptions
- 2016 Guest speaker, "Down on the Farm" radio show, FM88.1, KFCF, Feb 5, Fresno, CA
- 2015 Dinner with a Scientist, Merced, CA, Sep 30
- 2015 Organizer and moderator, "Dodging Extinction" talk at Merced Theatre, Apr 14, Merced, CA.
- 2014 Talk, Modesto Junior College Science Colloquium, Oct 22.
- 2014 Talk, Los Angeles Museum of Natural History, Oct 17. Community Ecology in a Changing Environment: Perspectives from the Quaternary.
- 2013 Science Cafe presenter, May 12.
- 2012 UW Madison Wednesday Night at the Lab speaker, Aug 8.
- 2009 Volunteer, Expanding Your Horizons
- 2006-08 Volunteer, Bay Area Girl Scouts "Girls Go Tech" Career Exploration Day
- 2005 Consultant, IUCN Global Mammal Assessment - *Arborimus poma*

ADVISING ACTIVITIES *UC Merced grad group indicated in ()

Doctoral students advised

J. Eric Williams (ES), Danaan DeNeve Weeks (QSB), Robert Boria (QSB), Nathaniel Fox (ES)

Active graduate student committees

Kinsey Brock (QSB), Brandon Hendrickson (ES), Taran Rallings (QSB)

Completed graduate student committees (2013-2018)

Joe Crockett (ES), Erin Dickman (ES), Alisa Keyser (ES), Joy McDermott (ES), Jonathan Nye (ES), Lauren Schiebelhut (ES), Holly Swift (QSB), Jesse Wilson (ES)

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Science; American Society of Mammalogists; American Quaternary Association; Ecological Society of America; International Biogeography Society; Phi Beta Kappa National Honor Society; Sigma Xi; Society of Vertebrate Paleontologists