

FY 2020-21 NRS Annual Report
PART 5. Publications

Campus: Riverside
Reserve: Sweeney Granite Mountains Desert Research Center
Prepared by: Tasha La Doux
Newly added publications: 33

- Adcock, C. T., D. A. Haber, P. C. Burnley, R. L. Malchow, and E. M. Hausrath. 2019. Modeling gamma radiation exposure rates using geologic and remote sensing data to locate radiogenic anomalies. *J Environ Radioact* **208-209**:106038.
- Alfaro, B., and D. L. Marshall. 2019. Phenotypic variation of life-history traits in native, invasive, and landrace populations of *Brassica tournefortii*. *Ecology & Evolution* **9**:13127-13141.
- Baldassarre, D. T., L. Campagna, H. A. Thomassen, J. W. Atwell, M. Chu, L. H. Crampton, R. C. Fleischer, and C. Riehl. 2019. GPS tracking and population genomics suggest itinerant breeding across drastically different habitats in the Phainopepla. *The Auk* **136**.
- Braun, J., and C. J. Lortie. 2020. Facilitation with a grain of salt: reduced pollinator visitation is an indirect cost of association with the foundation species creosote bush (*Larrea tridentata*). *Am J Bot* **107**:1342-1354.
- Chu, M. 1999. Ecology and Breeding Biology of Phainopeplas (*Phainopepla nitens*) in the Desert and Coastal Woodlands of Southern California. Ph.D. Dissertation University of California, Berkeley, Berkeley, CA.
- DiVittorio, C. T. 2014. Mechanisms of Adaptive Radiation in *Encelia*. Ph.D. dissertation. University of California, Berkeley, Berkeley, CA.
- Dustin A. Wood, A. G. V., Kelly R. Barr, Rich D. Inman., Todd C. Esque, Kenneth E. Nussear, Robert N. Fisher. 2013. Comparative phylogeography reveals deep lineages and regional evolutionary hotspots in the Mojave and Sonoran Deserts. *Diversity and Distributions* **19**:722-737.
- Filazzola, A., C. J. Lortie, M. F. Westphal, and R. Michalet. 2020. Species specificity challenges the predictability of facilitation along a regional desert gradient. *Journal of Vegetation Science*.
- Godwin, R. L. 2020. Systematics, Phylogeography, and Taxonomy of a Cosmopolitan Family of Morphologically Conserved Trapdoor Spiders (Halonoproctidae); Revisionary Work a Century in the Making. Ph.D. Dissertation. University of California, Davis, Davis, CA.
- Gottscho, A. D., S. B. Marks, and W. B. Jennings. 2014. Speciation, population structure, and demographic history of the Mojave Fringe-toed Lizard (*Uma scoparia*), a species of conservation concern. *Ecology and Evolution* **4**:2546-2562.
- Greer A. Dolby, R. J. D., Matthew R. Graham. 2019. A legacy of geo-climatic complexity and genetic divergence along the lower Colorado River: Insights from the geological record and 33 desert-adapted animals. *Journal of Biogeography* **46**:2479-2505.
- Haas-Desmarais, S. M., and C. J. Lortie. 2021. The polarizing nature of shrubs: Species-specific associations of annual plants with creosote bush (*Larrea tridentata*).in T. La Doux, D. L. Hughson, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Fall 2021. National Park Service & UC Natural Reserve System, Barstow, CA.
- Keller, M. F. 2014. A Revision of the North American Subgenus *Stenomorpha* Solier 1836

- (Coleoptera: Tenebrionidae: Asidini). . Ph.D. Dissertation. University of California, Davis, Davis, CA.
- King, J. A. 2003. Pinyon pine (*Pinus monophylla* Torr. & Fremont) and dendroclimatic reconstructions in the Los Angeles Region. University of California, Los Angeles, Los Angeles, CA.
- Lortie, C. J., M. Zuliani, N. Ghazian, S. Haas, J. Braun, M. Owen, F. Miguel, M. Seifan, A. Filazzola, and J. Lucero. 2021. Too much of a good thing: Shrub benefactors are less important in higher diversity arid ecosystems. *Journal of Ecology* **109**:2047– 2053.
- Matocq, M. D. 2000. Molecular genetics of the dusky-footed woodrat, *Neotoma fuscipes*. Ph.D. Dissertation University of California, Berkeley, Berkeley, CA.
- McAuliffe, J. 2021. Storm Cloud over Cima Dome – Tracking Vegetation Change after the Fire.*in* T. La Doux, D. L. Hughson, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Fall 2021. National Park Service & UC Natural Reserve System, Barstow, CA.
- McCoshum, S., and M. A. Geber. 2020. Land Conversion for Solar Facilities and Urban Sprawl in Southwest Deserts Causes Different Amounts of Habitat Loss for Ashmeadiella Bees. *Journal of the Kansas Entomological Society* **92**:468-478.
- McKechnie, A. E., B. H. Coe, A. R. Gerson, and B. O. Wolf. 2017. Data quality problems undermine analyses of endotherm upper critical temperatures. *Journal of Biogeography* **44**:2424-2426.
- O'Connor, T. K., R. G. Laport, and N. K. Whiteman. 2019. Polyploidy in creosote bush (*Larrea tridentata*) shapes the distribution and diversity gradients of specialist herbivores. *Journal of Biogeography* **46**:597-610.
- O'Meara, B., C. 2008. Using trees: Myrmecocystus phylogeny and character evolution and new methods for investigating trait evolution and species delimitation. Ph.D. Dissertation. University of California Davis, Ann Arbor.
- Ohlert, T., A. Hallmark, G. Hamilton, J. McLaughlin, M. Patton, and S. Collins. 2021. The Impact of Schismus on Biodiversity in Mojave Desert Winter Annual Communities.*in* T. La Doux, D. L. Hughson, and J. M. Andre, editors. Science Newsletter: Mojave National Preserve & Sweeney Granite Mountains Desert Research Center, Fall 2021. National Park Service & UC Natural Reserve System, Barstow, CA.
- Pietrasiak, N., S. Reeve, K. Osorio-Santos, D. A. Lipson, and J. R. Johansen. 2021. *Trichotorquatus* gen. nov. - a new genus of soil cyanobacteria discovered from American drylands(1). *J Phycol* **57**:886-902.
- Pombubpa, N., N. Pietrasiak, P. De Ley, and J. E. Stajich. 2020. Insights into dryland biocrust microbiome: geography, soil depth and crust type affect biocrust microbial communities and networks in Mojave Desert, USA. *FEMS Microbiol Ecol* **96**.
- Reynolds, R. G., M. L. Niemiller, and L. J. Revell. 2014. Toward a Tree-of-Life for the boas and pythons: Multilocus species-level phylogeny with unprecedented taxon sampling. *Molecular Phylogenetics and Evolution* **71**:201-213.
- Riddell, E. A., K. J. Iknayan, L. Hargrove, S. Tremor, J. L. Patton, R. Ramirez, and B. O. Wolf. 2021. Exposure to climate change drives stability or collapse of desert mammal and bird communities. *Science* **371**:633-636.
- Singhal, S., A. B. Roddy, C. DiVittorio, A. Sanchez-Amaya, C. L. Henriquez, C. R. Brodersen, S. Fehlberg, and F. Zapata. 2021. Diversification, disparification and hybridization in the desert shrubs *Encelia*. *New Phytol*:14.

- Sizek, J. 2018. California's Groundwater Regime: The Cadiz Case. *RESOURCES-BASEL* **7**.
- Sizek, J. 2019. Playground. *Journal for the Anthropology of North America* **22**:125-127.
- Smith, F. A., M. D. Matocq, K. F. Melendez, A. M. Ditto, and P. A. Kelly. 2000. How isolated are Pleistocene refugia? Results from a study on a relict woodrat population from the Mojave Desert, California. *Journal of Biogeography* **27**:483-500.
- Uckert, K., A. Parness, N. Chanover, E. J. Eshelman, N. Abcouwer, J. Nash, R. Detry, C. Fuller, D. Voelz, R. Hull, D. Flannery, R. Bhartia, K. S. Manatt, W. J. Abbey, and P. Boston. 2020. Investigating Habitability with an Integrated Rock-Climbing Robot and Astrobiology Instrument Suite. *Astrobiology* **20**:1427-1449.
- Vandergast, A., R. Inman, K. Barr, K. Nussear, T. Esque, S. Hathaway, D. Wood, P. Medica, J. Breinholt, C. Stephen, A. Gottscho, S. Marks, W. Jennings, and R. Fisher. 2013. Evolutionary Hotspots in the Mojave Desert. *Diversity* **5**:293-319.
- Wolf, B. O., B. H. Coe, A. R. Gerson, and A. E. McKechnie. 2017. Comment on an analysis of endotherm thermal tolerances: systematic errors in data compilation undermine its credibility. *Proceedings of the Royal Society B-Biological Sciences* **284**.