

Faculty Publications

2012 (*undergraduate student)

Francis, K.L., **P.G. MacRae**, W.W. Spirduso, and T. Eakin. 2012. The effects of age on precision pinch force control across five days of practice. *Current Aging Science* 5:2-12.

2011 (*undergraduate student)

Murphy, L.A.* , E.A. Ramirez*, V.T. Trinh*, A.M. Herman*, V.C. Anderson*, and **J.L. Brewster**. 2011. Endoplasmic reticulum stress or mutation of an EF-hand Ca(2+)-binding domain directs the FKBP65 rotamase to an ERAD-based proteolysis. *Cell Stress and Chaperones* DOI: 10.1007/s12192-011-0270-x.

Feltner, M.E., and P.G. MacRae. 2011. Time course of changes in novice jumpers' countermovement vertical jump performance. *Perceptual and Motor Skills* 112(1):228-242.

Barnett, B.R.* , A.L. Evans*, C.C. Roberts*, and **J.M. Fritsch**. 2011. Batch reactor kinetic studies on the reductive dechlorination of chlorinated ethylenes by *tetrakis*-(4-sulfonatophenyl) porphyrin cobalt. *Chemosphere* 82(4):592-596.

Evans, A.L.* , R.E. Messersmith*, D.B. Green, and **J.M. Fritsch**. 2011. Degradation of environmental contaminants with water-soluble cobalt catalysts: An integrative inorganic chemistry investigation. *Journal of Chemical Education* 88(2):204-208.

Green, D.B. and **J.M. Fritsch**. 2011. CSI:Pepperdine! A Case of collaboration between an ACS student chapter and local high school students. *inChemistry Magazine* April/May:5-6.

Clark, A.J.* , J.L. Calvillo*, M.S. Roosa, D.B. Green, and **J.A. Ganske**. 2011. Degradation product emission from historic and modern books by headspace SPME/GC-MS: evaluation of lipid oxidation and cellulose hydrolysis. *Analytical and Bioanalytical Chemistry* 399(10):3589-3600.

Clark, A.J.* , J.L. Calvillo*, M.S. Roosa, **D.B. Green**, and J.A. Ganske. 2011. Degradation product emission from historic and modern books by headspace SPME/GC-MS: evaluation of lipid oxidation and cellulose hydrolysis. *Analytical and Bioanalytical Chemistry* 399(10):3589-3600.

Evans, A.L.* , R.E. Messersmith*, **D.B. Green**, and J.M. Fritsch. 2011. Degradation of environmental contaminants with water-soluble cobalt catalysts: An integrative inorganic chemistry investigation. *Journal of Chemical Education* 88(2):204-208.

Green, D.B. and J.M. Fritsch. 2011. CSI:Pepperdine! A Case of collaboration between an ACS student chapter and local high school students. *inChemistry Magazine* April/May:5-6.

Gilad, O*., J.E. Janečka*, F. Armstrong*, M.E. Tewes, and **R.L. Honeycutt**. 2011. Cougars in Guadalupe Mountains National Park, Texas: Estimates of occurrence and distribution using analysis of DNA. *The Southwestern Naturalist* 56(3):297-304.

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Whiting, Jr., R.M., D. Ransom, Jr.*, C.E. Comer, K.A. Connell*, and **R.L. Honeycutt**. 2011. Genetic variation among gravid female American woodcock in eastern Texas during winter. *Proceedings of the American Woodcock Symposium* 10:129-134.

Janečka, J.E., M.E. Tewes, L.L. Laack, A. Caso, L.I. Grassman, Jr., A.M. Haines, D.B. Shindle, B.W. Davis, W.J. Murphy, and **R.L. Honeycutt**. 2011. Reduced genetic diversity and isolation of remnant ocelot populations occupying a severely fragmented landscape in southern Texas. *Animal Conservation* DOI: 10.1111/j.1469-1795.2011.00475.x.

Meredith, R.W., J.E. Janečka, J. Gatesy, O.A. Ryder, C.A. Fisher, E. C. Teeling, A. Goodbla, E. Eizirik, T.L.L. Simão, T. Stadler, D.L. Rabosky, **R.L. Honeycutt**, J.J. Flynn, C.M. Ingram, C. Steiner, T.L. Williams, T.J. Robinson, A. Burk-Herrick, M. Westerman, N.A. Ayoub, M.S. Springer, W.J. Murphy. 2011. Impacts of the cretaceous terrestrial revolution and KPg extinction on mammal diversification. *Science* 334:521-524.

Sena, L., M.P.C. Schneider, B.B. Brenig, **R.L. Honeycutt**, D.A. Honeycutt, J.E. Womack, and L.C. Skow. 2011. Polymorphism and gene organization of water buffalo *MHC-DQB* genes show homology to *BoLA* DQB region. *Animal Genetics* 42(4):378-385.

Winemiller, K.O., D.J. Hoeinghaus, A.A. Pease, P.C. Esselman, **R.L. Honeycutt**, D. Gbanaador*, E. Carrera*, and J. Payne*. 2010. Stable isotope analysis reveals food web structure and watershed impacts along the fluvial gradient of a Mesoamerican coastal river. *River Research and Applications* 27(6):791-803.

Winemiller, K.O., S.C. Zeug, C.R. Robertson, C. Saenz, B.K. Winemiller, L. Kelso-Winemiller, and **R.L. Honeycutt**. 2011. Food web structure of coastal streams in Costa Rica revealed by dietary and stable isotope analyses. *Journal of Tropical Ecology* 27:463-476.

Faux, M.G., **K.M. Iga**, and G.D. Landweber. 2011. Dimensional enhancement via supersymmetry. *Advances in Mathematical Physics* doi:10.1155/2011/259089.

Joyner, P.M., A.L. Waters*, R. B. Williams, D.R. Powell, N.B. Janakiram, C.V. Rao, and R.H. Cichewicz. 2011. Briarane diterpenes diminish COX-2 expression in human colon adenocarcinoma cells. *Journal of Natural Products* 74(4):857-861.

Joyner, P.M., and R.H. Cichewicz. 2011. Bringing natural products into the fold – exploring the therapeutic lead potential of secondary metabolites for the treatment of protein-misfolding-related neurodegenerative diseases. *Natural Product Reports* 28:26-47.

Bancroft, B., B. Han, C. Searle, L. Biga, D. Olson, **L. Kats**, J. Lawler, and A. Blaustein. 2011. Species-level correlates of susceptibility to the pathogenic amphibian fungus *Batrachochytrium dendrobatidis* in the United States. *Biodiversity and Conservation* 20(9):1911-1920.

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Blaustein, A.R., B.A. Han, R.A. Relyea, P.T.J. Johnson, J.C. Buck, S.S. Gervasi, and **L.B. Kats**. 2011. The complexity of amphibian population declines: understanding the role of cofactors in driving amphibian losses. *Annals of the New York Academy of Sciences* 1223(The Year in Ecology and Conservation Biology):108-119.

Garrett, K.C., and **K. Killpatrick**. 2011. A sign-reversing involution on Bimahonian generating functions. *Ars Combinatoria C*:225-237.

Lucas, T.A. 2011. Maximum-norm estimates for an immunology model using reaction-diffusion equations with stochastic source terms. *SIAM Journal of Numerical Analysis* 49(6):2256-2276.

Lucas, T.A., and J. Spivey. 2011. A transition course from advanced placement to college calculus. *Primus* July 2, 2011.

Feltner, M.E., and **P.G. MacRae**. 2011. Time course of changes in novice jumpers' countermovement vertical jump performance. *Perceptual and Motor Skills* 112(1):228-242.

Martin, K.L., K. Bailey*, C.L. Moravek, and K. Carlson*. 2011. Taking the plunge: California grunion embryos emerge rapidly with environmentally cued hatching. *Integrative and Comparative Biology* 51(1):26-37.

Martin, K.L., K.M. Warkentin, and R.R. Strathmann. 2011. Environmentally cued hatching across taxa: Embryos Choose a Birthday Symposium. *Integrative and Comparative Biology* 51(1):14-127.

Martin, K.L.M., C.L. Moravek, A.D. Martin*, and R.D. Martin. 2011. Community based monitoring improves management of essential fish habitat for beach spawning California grunion. *Bulletin de L'Institut Scientifique (Rabat) Section Sciences de la Vie* 6:65-72.

Martin, K.L.M., C.L. Moravek, and A.J. Walker*. 2011. Waiting for a sign: extended incubation postpones larval stage in the beach spawning California grunion *Leuresthes tenuis* (Ayres). *Environmental Biology of Fishes* 91(1):63-70.

Moravek, C.L., and **K.L. Martin**. 2011. Life goes on: delayed hatching, extended incubation, and heterokairy in development of embryonic California grunion, *Leuresthes tenuis*. *Copeia* 2011(2): 308-314.

Perkins, C., S.L. Dunn, K. Gallington*, K. Carlson*, and A. Uhrinak. 2011. Gestational weight gain relative to Institute Of Medicine recommendations in hispanic women. *Medicine & Science in Sports & Exercise* 43(5):794.

Faculty Publications

2010 (*undergraduate student)

Pratt, R.B., G.B. North, A.L. Jacobsen*, F.W. Ewers, and **S.D. Davis**. 2010. Xylem root and shoot hydraulics is linked to life history type in chaparral seedlings. *Functional Ecology* 24(1):70-81.

Dolbin, R.J. 2010. Abelian subalgebras in Z₂-graded Lie algebras; partitions, young diagrams and ballot numbers. ProQuest Dissertations. Pp. 1-43.

Roberts, C.C.* , and **J.M. Fritsch**. 2010. Synthesis and crystal structures of magnesium complexes with NNO Schiff base ligands bearing quinolyl pendant donors. *Polyhedron* 29(4):1271-1278.

Honeycutt, R.L. 2010. Unraveling the mysteries of dog evolution. *BMC Biology* 8(1):20.

Honeycutt, R.L., D.M. Hillis, J.W. Bickham, and A.B. Baird. 2010. Biodiversity discovery and its importance to conservation. Pp. 1-35 in *Molecular Approaches in Natural Resource Conservation and Management* (J.A. DeWoody, J.W. Bickham, C.H. Michler, K.M. Nichols, G.E. Rhodes, and K.E. Woeste, eds. (Cambridge University Press Australia and New Zealand).

López-Fernández, H.* , K.O. Winemiller, and **R.L. Honeycutt**. 2010. Multilocus phylogeny and rapid radiations in Neotropical cichlid fishes (Perciformes: Cichlidae: Cichlinae). *Molecular Phylogenetics and Evolution* 55:1070-1086.

C.L. Hickman, Jr., **L. Kats**, S.L. Keen, and B. Ober. 2010. *Laboratory Studies in Integrated Principles of Zoology*. 15th Edition. McGraw-Hill Science/Engineering/Math.

Miller-Perrin, C.L., and **D. Thompson**. 2010. The development of vocational calling, identity and faith in college students: A preliminary study of the impact of study abroad. *Frontiers: Interdisciplinary Journal of Study Abroad* 19:87-104.

Warford, J.S. 2010. *Computer Systems*. 4th Edition. Jones & Bartlett Learning.

Warford, J.S., and C. Dimpfl*. 2010. The pep/8 memory tracer: visualizing activation records on the run-time stack. Pp. 371-375 in *Proceedings of the 41st ACM Technical Symposium on Computer Science Education* DOI [10.1145/1734263.1734389](https://doi.org/10.1145/1734263.1734389).

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2009 (*undergraduate student)

Loucks, F.A.* , E.K. Schroeder*, A.E. Zommer, S. Hilger*, N.A. Kelsey, R.J. Bouchard, C. Blackstone, **J.L. Brewster**, and D.A. Linseman. 2009. Caspases indirectly regulate cleavage of the mitochondrial fusion GTPase OPA1 in neurons undergoing apoptosis. *Brain Research* 1250:63–74.

Crouse, A.L.* , **R.L. Honeycutt**, R.A. McCleery, C.A. Faulhaber, N.D. Perry*, and R.R. Lopez. 2009. Population structure of the lower keys marsh rabbit as determined by mitochondrial DNA analysis. *The Journal of Wildlife Management* 73(3):362-367.

DeYoung, R.W.* , S. Demarais, K.L. Gee, **R.L. Honeycutt**, M.W. Hellickson, and R.A. Gonzales. 2009. Molecular evaluation of the white-tailed deer (*Odocoileus virginianus*) mating system. *Journal of Mammalogy* 90(4):946-953.

DeYoung, R.W.* , A. Zamorano*, B.T. Mesenbrink, T.A. Campbell, B.R. Leland, G.M. Moore, **R.L. Honeycutt**, and J.J. Root. 2009. Landscape-genetic analysis of population structure in the Texas gray fox oral rabies vaccination zone. *The Journal of Wildlife Management* 73(8):1292-1299.

Honeycutt, R. L. 2009. Rodentia. Pp. 490-494 in *The Timetree of Life* (S. Blair Hedges and Sudhir Kumar, eds.). Oxford University Press.

Johnson, P.B.* , K.L. Martin, T.L. Vandergon, **R.L. Honeycutt**, R.S. Burton, and A. Fry*. 2009. Microsatellite and mitochondrial genetic comparisons between northern and southern populations of California grunion (*Leuresthes tenuis*). *Copeia* 2009 (3):465-474.

Phillips, C.D.* , R.G. Trujillo, T.S. Gelatt, M.J. Smolen, C.W. Matson, **R.L. Honeycutt**, J.C. Patton, and J.W. Bickham. 2009. Assessing substitution patterns, rates and homoplasy at HVRI of Steller sea lions, *Eumetopias jubatus*. *Molecular Ecology* 18:3379-3393.

Rowe, D.L.* , K.A. Dunn*, R.M. Adkins*, and **R.L. Honeycutt**. 2009. Molecular clocks keep dispersal hypotheses afloat: evidence for trans-Atlantic rafting by rodents. *Journal of Biogeography* 37(2):305-324.

Shelton, D.E.* , A.D. Harlin-Cognato*, **R.L. Honeycutt**, and T. Markowitz. 2009. Sexual segregation and genetic relatedness in New Zealand dusky dolphin social groups. Pp. 195-209 in *Dusky Dolphins: Master Acrobats off Different Shores* (Bernd Würsig and Melany Würsig, eds.). Academic/Elsevier Press.

Doran, C.F., M.G. Faux, S.J. Gates, Jr., T. Hübsch, **K.M. Iga**, and G.D. Landweber. 2009. Frames for supersymmetry. *International Journal of Modern Physics A*, 24 (14):2665-2676.

Doran, C.F., M.G. Faux, S.J. Gates, Jr., T. Hübsch, **K.M. Iga**, and G.D Landweber. 2009. Super-Zeeman embedding models on *N*-supersymmetric world-lines. *Journal of Physics A: Mathematical and Theoretical* 42:065402.

Hickman, Jr., C.P., and **L. Kats**. 2009. *Laboratory Studies in Animal Diversity*. 5th Edition. The McGraw-Hill Companies.

Faculty Publications

2009 (*undergraduate student)

Cameron, N., and **K. Killpatrick**. 2009. k -ribbon Fibonacci tableaux. *Discrete Mathematics* 309(4):721-740.

Killpatrick, K. 2009. Some statistics for Fibonacci tableaux. *European Journal of Combinatorics* 30(4):929-933.

Johnson, P.B.* , **K.L. Martin**, T.L. Vandergon, R.L. Honeycutt, R.S. Burton, and A. Fry*. 2009. Microsatellite and mitochondrial genetic comparisons between northern and southern populations of California grunion (*Leuresthes tenuis*). *Copeia* 2009 (3):465-474.

Martin, K.L., C.L. Moravek*, and J.A. Flannery*. 2009. Embryonic staging series for the beach spawning, terrestrially incubating California grunion *Leuresthes tenuis* with comparisons to other Atherinomorpha. *Journal of Fish Biology* 75(1):17-38.

Johnson, P.B.* , K.L. Martin, **T.L. Vandergon**, R.L. Honeycutt, R.S. Burton, and A. Fry*. 2009. Microsatellite and mitochondrial genetic comparisons between northern and southern populations of California grunion (*Leuresthes tenuis*). *Copeia* 2009 (3):465-474.