

College of Sciences & Humanities
Faculty Publications 2018-2019

Anthropology

Journal Articles

- Bhaumik, S. S., Placek, C., Kochumoni, R., Lekha, T. R., Prabhakaran, D., Hitsman, B., Huffman, M. D., Harikrishnan, S., & Goenka, S. (2018). Tobacco cessation among acute coronary syndrome patients in Kerala, India: Patient and provider perspectives. *Qualitative Health Research*. doi:10.1177/1049732318817047.
- Dussubieux, L., Hill, M. A., & Lattanzi, G. D. (2019). External standards for the LA-ICP-MS analysis of North American copper artifacts: Looking at different approaches. *Journal of Archaeological Science: Reports*. doi.org/10.1016/j.jasrep.2019.02.026
- Hill, M. A., Lattanzi, G. D., Sanger, M., & Dussubieux, L. (2019) Elemental analysis of Late Archaic copper from the McQueen Shell Ring, St. Catherine's Island, Georgia. *Journal of Archaeological Sciences: Reports*. doi.org/10.1016/j.jasrep.2019.01.017
- Hill, M. A., Seeman, M. F., Nolan, K. C., & Dussubieux, L. (2018). An empirical evaluation of copper procurement and distribution: Elemental analysis of Scioto Valley Hopewell copper. *Journal of Archaeological and Anthropological Sciences*. doi:10.1007/s12520-017-0540-3
- Krupp, K., Placek, C., Wilcox, M., Ravi, K., Srinivas, V., Arjun, A., & Madhivanan, P. (2018). Financial decision making power is associated with moderate to severe anemia: A prospective cohort study among pregnant women in rural South India. *Midwifery*, 61, 15-21.
- Lang, M., Purzycki, B. G., Apicella, C. L., Atkinson, Q. D., Bolyanatz, A., Cohen, E., Handley, C., Kundtová Klocová, E., Lesorogol, C., Mathew, S., McNamara, R. A., Moya, C., Placek, C., Soler, M., Vardy, T., Weigel, J. L., Willard, A. K., Xygalatas, D., Norenzayan, A., & Henrich, J. (2019). Moralizing gods, impartiality and religious parochialism across 15 societies. *Proceedings of the Royal Society B: Biological Sciences*, 286(1898). doi:10.1098/rspb.2019.0202.
- Leeuwrik, J., Thompson, C., & Nolan, K. C. (2018). Archaeological investigations of the northern half of Newton County, Indiana. *Indiana Archaeology*, 13(1), 7-26. https://www.in.gov/dnr/historic/files/hp-2018_Archaeology_Journal_Vol_13_No_1.pdf
- Murray, C. E. (2019). Locating the wild man: Forest enchantments and settler colonial fantasies amid the ruins of the anthropocene. *Historical Sociology Modern Monsters Studies at the Perimeters of Humanity*, 32(1). <https://onlinelibrary.wiley.com/toc/14676443/2019/32/1>
- Murray, C. E. (2019). Michael Harkin's "Feeling and thinking in memory and forgetting: Toward an ethnohistory of the emotions." *Ethnohistory*, 66(1).

- Nolan, K. C., Leak, J., & Quimbach, C. (2018). The single-pass survey and the collector: A reasonable effort in good faith? *Occasional Papers, Midcontinental Journal of Archaeology*, 3, 51-66.
- Placek, C., Roulette, C., Hudanick, N., Khan, A., Ravi, K., Jayakrishna, P., ... & Madhivanan, P. (2019). Exploring biocultural models of chewing tobacco and paan among reproductive-aged women: Self-medication, protection, or gender inequality? *American Journal of Human Biology*, e23281.
- Placek, C. D., Nishimura, H., Hudanick, N., Stephens, D., & Madhivanan, P. (2019). Reframing HIV stigma and fear. *Human Nature*, 30(1), 1-22.
- Sanger, M. C., Hill, M. A., Lattanzi, G. D., Padgett, B. D., Larsen, C. S., Culleton, B. J., Kennett, D. J., Dussubieux, L., Napolitano, M. F., Lacombe, S., & Thomas, D. H. (2018). Early metal use and crematory practices in the American southeast: Implications for long-distance exchange and emergent complexity. *Proceedings of the National Academy of Sciences*, 115(33), E7672-E7679. <http://www.pnas.org/content/115/33/E7672?etoc=>
- Seeman, M. F., Nolan, K. C., & Hill, M. A. (2019). Copper as an essential and exotic Hopewell metal. *Journal of Archaeological Science: Reports*. doi:10.1016/j.jasrep.2018.12.019
- Thompson, C., & Nolan, K. C. (2018). A village built over a battlefield: Urban archaeology and preservation at the battle of the Wabash (1791). *Indiana Archaeology*, 13(1), 43-48. https://www.in.gov/dnr/historic/files/hp-2018_Archaeology_Journal_Vol_13_No_1.pdf
- Wies, J. (2018). Perceptions of risk, lives in sacrifice: Service, learning, and liberation pedagogy in Appalachia. *Teaching and Learning Anthropology*, 1(1): 1-21.

Edited Books

- Shott, M., Seeman, M. F., & Nolan, K. C. (Eds.). (2018). *Collaborative engagement: Working with responsible private collectors and collections* (vol. 3). Occasional Papers, Midcontinental Journal of Archaeology.

Book Chapters

- Murray, C. E. (2019). Bodies, artifacts and ghosts: NAGPRA and the unsettling of settler colonialism. In *The Varieties of Historical Experience*. London: Routledge.
- Nolan, K., Hill, M. A., Seeman, M. F., Olson, E., Butcher, E., Chavali, S., Hillard, N., & Dussubieux, L. (2019). Scale and community in Hopewell networks (SCHoN): Summary of preliminary results. In B. G. Redmond, B. J. Ruby, and J. Burks (Eds.), *Encountering Hopewell in Ohio and Beyond*. University of Akron Press.
- Phillips, R. F. (2018). Im/possibilities in the Field: Lessons from Jerusalem. In *Sex: Ethnographic encounters* (pp. 169-178). London: Bloomsbury.
- Wies, J., & Haldane, H. J. (2018). Structures of violence throughout the Life course: Cross-cultural perspectives of gender-based Violence. In N. E. Riley & J. Brunson (Eds.), *Gender and demography* (pp. 321-340). Dordrecht, The Netherlands: Springer.

Other Publications

- Cron, L. M., & Nolan, K. C. (2018). Archaeological field reconnaissance of fort site park ball diamond improvements, Fort Recovery, Recovery Township, Mercer County, Ohio. *Applied Anthropology Laboratories Project #18FR004*. Report prepared for village of Fort Recovery.
- Groover, M. D., & Clark, J. (2018). *Yount mill historical archaeology field school report*. Prepared for Division of Historic Preservation and Archaeology, Indiana Department of Natural Resources, Indianapolis, Indiana. 149 pages. Archaeology Compliance Technical Report; reviewed by Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology, Indianapolis.
- Hogue, S. H. (2018). Faunal remains from 12FU65 and 12FU67. *An archaeological survey of Fulton County: Enhancement of a data deficient region* (pp. 3). Muncie, IN: Reports of Investigations 103.
- Hogue, S. H. (2018). Faunal remains from site 20AE619. *Phase I archaeological and geophysical survey and ground - truth testing for proposed Saugatuck Marina and Laydown Area, Allegan County, Michigan* (pp. 6). Muncie, IN: Reports of Investigations 106.
- Hogue, S. H., Wasley, K., Wathen, K., Large, C., & Cieslik, E. (2018). Faunal analysis: Mullet Hall Plantation. *Archaeological investigations at Mullet Hall Plantation, Johns Island, Charleston, South Carolina* (pp. 38). Columbia, SC: Chicora Foundation Research Series 76.
- Munro, C., & Nolan, K. C. (2018). Phase Ia archaeological field reconnaissance: Proposed home site, West Lafayette, Tippecanoe County, Indiana. *Applied Anthropology Laboratories project #18FR001*. Report prepared for Patricia C. W. Jones.
- Munro, C., Tynes, K., & Nolan, K. C. (2018). Phase Ia archaeological field reconnaissance: CR 500 N & River Road intersection improvement, Des. No. 1401279, Tippecanoe County, Indiana. *Applied Archaeology Laboratories project #18FR002*. Report prepared for VS Engineering, Inc.
- Nolan, K. C. (2018). Geophysical field reconnaissance of Willow Grove Cemetery, Fountain City, Indiana. *Applied Anthropology Laboratories project #18SP005*. Report prepared for Orbis Environmental Consulting, Inc.
- Nolan, K. C. (2018). Ground penetrating radar survey of the funeral tunnel at the former soldier's home in Dayton National Cemetery, Dayton, Ohio. *Reports of Investigation* (vol. 110). Muncie, Indiana: Applied Anthropology Laboratories, Department of Anthropology, Ball State University.
- Placek, C. (2018). Food aversions and cravings. *Encyclopedia of evolutionary psychological science*.
- Purtill, M., Nolan, K. C., Gilaspy, C., Munro, C., & Ellrod, K. J. (2018). Phase I archaeological and geophysical survey and ground-truth testing for proposed Saugatuck Marina and Laydown Area, Allegan County, Michigan. *Applied Anthropology Laboratories Project #17FR004*. Report prepared for Northshores of Saugatuck, LLC.

- Szmuto, C. M., Reinholt, T., Cron, L., Purtill, M., Nolan, K. C., & Thompson, C. *An archaeological survey of Fulton County: Enhancement of a data deficient region. Reports of Investigation 103.*
- Thompson, C. (2018). *Archaeological field reconnaissance of facility improvements, Wendel Poultry Services, 1860 Union City Road, Fort Recovery, Gibson Township Mercer County, Ohio (2017-MER-40385).*

Funded Grants

- Nolan, K., GPR Survey of Willow Creek Cemetery, Wayne Co., Indiana. Orbis Environmental Consulting, \$986.
- Nolan, K., Ground Penetrating Radar Survey of "Colored" Cemetery near Thorntown. Indiana Crossroads of America Council, \$900.
- Nolan, K., Phase Ia Archaeological Field Reconnaissance and Report - Fort Site Ball Diamond Improvement Project Village of Fort Recovery, Mercer Co., Ohio. Village of Fort Recovery, \$4,265.
- Nolan, K., Phase Ia Archaeological Field Reconnaissance and Report - Connersville Mettle Field (CEV) Airport Solar Panel Installation, Fayette Co., Indiana. PSG Energy Group, \$2,670.
- Nolan, K., Phase Ib Archaeological Field Reconnaissance and Report - Intensive Assessment of site 12-F-465 for the Connersville Rivers Edge Park, Fayette Co., Indiana. PSG Energy Group, \$5,131.
- Nolan, K., Phase Ia Archaeological Field Reconnaissance and Report - Proposed Park approximately 14 ac, Union County, Indiana. Kieser Consulting Group, LLC, \$6,769.
- Nolan, K., Phase Ia Archaeological Field Reconnaissance and Report - Spy Run Creek Stream Restoration Project at Franke Park Fort Wayne, Allen Co., Indiana. City of Fort Wayne, Indiana, \$2,137.
- Nolan, K., Preparation of Phase III and Monitoring Plan for Site 20AE619 near Saugatuck, Allegan County, Michigan. North Shores of Saugatuck LLC, \$2,583.
- Ontl, K., Assessing Novel Pathways of Mercury Bioaccumulation in West African Chimpanzees (*Pan troglodytes verus*) in Senegal. U.S. Fish and Wildlife Service, \$92,215.
- Purtill, M., Additional Phase I Archaeological Survey of ~2.5 acres of land to better define NRHP-eligible Property Near Saugatuc. North Shores of Saugatuck LLC, \$2,551
- Purtill, M., Documenting and Cataloging the Dolan Collection. Syracuse-Wawasee Historical Museum, \$10,629.
- Thompson, C., A New View of the Battle of the Wabash. National Endowment for the Humanities, \$74,875.
- Thompson, C., Battle of Peckuwe, Site Identification & Documentation and Public Outreach. National Park Service, \$75,000.
- Thompson, C., NAGPRA Consultation/Documentation. National Park Service, \$37,268.

Biology

Journal Articles

- Abbey, M., Anderson, N. O., Yue, C., Short, G., Schermann, M., Phelps, N., ... & Vickers, Z. (2019). An analysis of strawberry (*Fragaria xananassa*) productivity in northern latitudinal aquaponic growing conditions. *American Pomological Society*, 73(1), 22-37.
- Adamson, K. L., & McKillip, J. L. (2019). *Bacillus* spp. Bacteriophage and the dairy environment. *J. Liberal Arts & Sciences*.
- Bernot, R. J., & Poulin, R. (2018). Ecological stoichiometry for parasitologists. *Trends in Parasitology*, 34, 930-935. [doi:10.1016/j.pt.2018.07.008](https://doi.org/10.1016/j.pt.2018.07.008)
- Caffo, L., Sneed, B.L., Burcham, C., Reed, K., Hahn, N.C., Bell, S., Downham, O., Evans, M.D., Fullenkamp, C.R., Drinnon, T.K., Bishop, D., Bruns, H.A., McKillip, J.L., Sammelson, R.E., & McDowell, S.A. (2019). Simvastatin and ML141 Decrease Intracellular *Streptococcus pyogenes* Infection. *Current Pharmaceutical Biotechnology*, 20, 733-744.
- Carlson, A.K., Taylor, W.W., Kinnison, M.T., Sullivan, S.M.P., Weber, M.J., Melstrom, R.T., Venturelli, P.A., Wuellner, M.R., Newman, R.M., Hartman, K.J., & Zydlewski, G.B. (2019). Threats to freshwater fisheries in the United States: perspectives and investments of state fisheries administrators and agricultural experiment station directors. *Fisheries*.
- Chambers, A. E., Richardson, A. E., Read, D. F., Waller, T. J., Bernstein, D. A., & Smaldino, P. J. (2018). An In Vitro Assay to detect tRNA-Isopentenyl transferase activity. *Journal of Visualized Experiments*, 140.
- Cox, M., Ward, J., Matsuura, M., Aing, R., Schoenfuss, H., & Kohno, S., (Submitted/In Revision). Estrone exposure interacts with temperature to alter predator evasion performance and systemic mRNA abundances. Target journal: *Integrative Organismal Biology*.
- Das, S., Goldstone, A. B., Wang, H., Farry, J., D'Amato, G., Paulsen, M. J., Eskandari, A., Hironaka, C. E., Phansalkar, R., Sharma, B., Rhee, S., Shamskhou, E. A., Agalliu, D., de Jesus Perez, V., Woo, Y. J., & Red-Horse, K. (2019). A unique collateral artery development program promotes neonatal heart regeneration. *Cell*, 176(5):1128-1142.
- Delancey, C. D., MacDonald, G. J., & Islam, K. (2018). American Redstarts (*Setophaga ruticilla*) usurp Cerulean Warbler (*Setophaga cerulea*) nest in southern Indiana. *The Wilson Journal of Ornithology*, 130(2), 554-558.
- Delancey, C. D., MacDonald, G. J., & Islam, K. (2019). First confirmed hybrid pairing between a Cerulean Warbler (*Setophaga cerulea*) and a Black-throated Blue Warbler (*Setophaga caerulescens*). *The Wilson Journal of Ornithology*, 131(1), 161-165.
- Embree, C. M., Pickerill, E. S., Evans, B. A., North, E. R., Mager, G. M., Bernstein, D. A. (2019). CRISPR mediated genome editing an undergraduate perspective. *Fine Focus*.

- Evans, B. A., Pickerill, E. S., Vyas, V. K., & Bernstein, D. A. (2018). CRISPR-mediated Genome editing of the human fungal pathogen *Candida albicans*. *J Vis Exp*, (141). doi:10.3791/58764
- Evans, B. A., Smith, O. L., Pickerill, E. S., York, M. K., Buenconsejo, K. J. P., Chambers, A. E., & Bernstein, D. A. (2018). Restriction digest screening facilitates efficient detection of site-directed mutations introduced by CRISPR in *C. albicans* UME6. *PeerJ*, 6, e4920. doi:10.7717/peerj.4920
- Gökmen-Polar, Y., True, J.D., Vieth, E., Gu, Y., Gu, X., Qi, G. D., Mosley, A. L., & Badve, S. S. (2018). Quantitative phosphoproteomic analysis identifies novel functional pathways of tumor suppressor DLC1 in estrogen receptor positive breast cancer. *PLoS One*.
- Honsey, A. E., Loppnow, G. L., Martin, T. J., Schroeder, L. A., Tomamichel, M. M., Huempfer, N. T., & Venturelli, P. A. (2018). Reeling them in: Initial insight into the factors affecting presentation attendance at American Fisheries Society meetings. *Fisheries*, 43, 98-105.
- Honsey, A. E., Venturelli, P. A., & Lester, N. (2018). Bioenergetic foundations for using degree-days derived from air temperatures to describe fish growth. *Canadian Journal of Fisheries and Aquatic Sciences*.
- Kelly-Worden, Marie L.; Cieslik, Emma; Griffith, Julie A. (2019). The Effects of Astaxanthin on Amyloid Beta Challenged Hippocampal Cell Growth and Mitochondrial Function During Hypoglycemia. *Biophysical Journal*. 116(3):272a.
- Leblanc, D. C., & Berland, A. M. Spatial patterns in oak (*Quercus* spp.) radial growth response to drought along climate gradients in eastern North America. *Canadian Journal of Forest Research*.
- MacDonald, G. J., Delancey, C. D., & Islam, K. (2019). Novel vocalizations, including song, from 2 female Cerulean Warbler (*Setophaga cerulea*). *The Wilson Journal of Ornithology*, 131(2), 366-373.
- McConnell, T. J. Parker, J. M., & Eberhardt, J. (2019). Problem-based learning for responsive and transformational teacher professional development. *Global Journal of Transformative Education* 1(1), 8 pgs. doi:10.14434/gjte.v1i1.25848
- McConnell, T. J., Foster, T., & Schilten, M. (in press). Inquiry at the Botanical Gardens: Practicing science processes during a field trip to the Indianapolis Zoo. *The Hoosier Science Teacher*, 42(1). (Accepted February 20, 2019)
- McConnell, T. J., Giorgio-Booher, B. J., Reneker, M., Bockover, J., & Page, A. (in press). Manatee ID card game: Student activity to practice authentic science process skills. *The Hoosier Science Teacher*.
- Papenfuss, J. T., Cross, T. K., & Venturelli, P. A. (2018). A comparison of the effects of water-level policies on the availability of walleye spawning habitat in a boreal reservoir. *Lake and Reservoir Management*, 34, 321-333.
- Peebles-Spencer, J. R., Haffey, C. M., & Gorchov, D. L. (2018). Browse by White-tailed Deer decreases cover and growth of the invasive shrub, *Lonicera maackii*. *American Midland Naturalist*, 179(1), 68-77.

- Pickerill, E. S., Kurtz, R. P., Tharp, A., Guerrero Sanz, P., Begum, M., & Bernstein, D. A. (2019). Pseudouridine synthase 7 impacts *Candida albicans* rRNA processing and morphological plasticity. *Yeast*. doi:10.1002/yea.3436
- Pyron, M., Mims, M.C., Minder, M.M., Shields, R.C., Chodkowski, N., & Artz, C.C. (2019). Long-term fish assemblages of the Ohio River: altered trophic and life history strategies with hydrologic alterations and landuse modifications. *PLOS ONE* 14:e0211848.
- Rajabli, N., Williamson, L., Nimmer, P., Kelly-Worden, M. L., Bange, J., Ho, Y., & McKillip, J. L. (2018). The dangers of sublethal Carvacrol exposure: Increases in virulence of *Bacillus cereus* during Endophthalmitis. *International Journal of Biochemistry and Molecular Biology*, 9(2), 11-21.
- Rearick, D., Ward, J., Venturelli, P., & Schoenfuss, H. (2018). Environmental estrogens cause predation-induced population decline in freshwater fish. *Royal Society Open Science*.
- Renschler, M. A., Wyatt, A., Anene, N., Robinson-Hill, R., Pickerill, E. S., Fox, N. E., Griffith, J. A., & McKillip, J. L. (2019). Using nitrous acid modified MRS medium to selectively isolate and culture lactic acid bacteria from dairy foods. *J. Dairy Sci*.
- Rhee, S., Chung, J. I., King, D. A., D'Amato, G., Paik, D. T., Duan, A., Chang, A., Nagelberg, D., Sharma, B., Jeong, Y., Diehn, M., Wu, J. C., Morrison, A. J., & Red-Horse, K. (2018). Endothelial deletion of Ino80 disrupts coronary angiogenesis and causes congenital heart disease. *Nature Comm*, 9(1): 368.
- Robinson-Hill, R. M. (2019). The journey of a science teacher: Preparing female students in the training future scientist after-school program.
- Ruch, D. G., Banks, B., Brodman, R., Carter, T., Cole, L., Dittmann, M., Fisher, B. E., Holland, J. D., Islam, K., Jean, R. P., McCarty, M., McMurray, Jr, P. D., Milne, M., Murphy, W. L., Roth, K., Russell, S., Strang, C., Whitaker, Jr., J., & Chamberlain, A. (2018). Results of the 2017 red-tail land conservancy biodiversity survey, Delaware and Randolph counties, Indiana. *Proceedings of the Indiana Academy of Science*, 127(1), 37-54.
- Salk, K.R., Tomaswick, L., & Rober, A.R. (2019). Peer mentoring: The missing piece in graduate professional development. *Fine Focus*.
- Short, Sorensen, Yue, Anderson, Phelps, Venturelli, P., & Vickers. (2018). Consumer preferences for aquaponic produce: Implications from an experimental auction. *Agribusiness*, 34, 742-755.
- Smaldino, P. J., McComb, C., Otto, G. J., Garvey, J., Omans, D., & Smaldino, P. J. (2018). Visualizing cancer: A transdisciplinary art & biology collaborative. *Journal of Teaching and Learning*, 11(2).
- Smaldino, P. J., Read, D. F., Waller, T. J., Tse, E., Southworth, D. R., Engelke, D. R., & Smaldino, P. J. (2018). Aggregation of Mod5 is affected by tRNA binding with implications for tRNA gene-mediated silencing. *FEBS Letters*, 591(11).
- Tomamichel, M. M., Hodgins, N. C., Venturelli, P. A., & Phelps, N. B. (2018). The prevalence and potential fisheries consequences of *Heterosporis sutherlandae* in a Minnesota lake. *PLoS one*, 13(6), e0199580

- Vyas, V. K., Bushkin, G. G., Bernstein, D. A., Getz, M. A., Sewastianik, M., Barrasa, M. I., . . . & Fink, G. R. (2018). New CRISPR mutagenesis strategies reveal variation in repair mechanisms among Fungi. *mSphere*, 3(2). doi:10.1128/mSphere.00154-18
- Walls, J. T., Wyatt, K. H., Doll, J. C., Rubenstein, E. M., & Rober, A. R. (2018). Hot and Toxic: Temperature regulates toxin release by cyanobacteria. *Science of the Total Environment*, 610-611, 786–795.
- Ward, J. (2018). Conspicuous signal evolution in heterogeneous environments. *Behavioral Ecology and Sociobiology*, 72, 119.
- Watkins, D.S., True, J.D., Mosley, A.L., & Baucum, A.J. 2nd. (2018). Proteomic analysis of the Spinophilin Interactome in rodent striatum following psychostimulant sensitization. *Proteomes*.
- Wilson, K. L., Honsey, A. E., Moe, B., & Venturelli, P. A. (2018). Growing the biphasic framework: Techniques and recommendations for fitting emerging growth models. *Methods in Ecology and Evolution*, 9, 822-833.
- Wyatt, K. H., Seballos, R. C., Shoemaker, M. N., Brown, S. P., Chandra, S., Kuehn, K. A., Rober, A. R., & Sadro, S. Resource constraints highlight complex microbial interactions during lake biofilm development. *Journal of Ecology*.
- Yamamoto, W.R., Bone, R.N., Sohn, P., Syed, F., Reissaus, C.A., Mosley, A.L., Wijeratne, A.B., True, J.D., Tong, X., Kono, T., & Evans-Molina, C. (2019). Endoplasmic reticulum stress alters ryanodine receptor function in the murine pancreatic beta cell. *J Biol Chem*, 168-181.

Books

- Page, A. & McConnell, T. J. (2019). *Conservation Tales Junior: Bats*. Muncie: Airway Publishing. www.conservationtales.com/conservation-tales-junior.html
- Bockover, J., & McConnell, T. J. (2019). *Conservation Tales Junior: Bees*. Muncie: Airway Publishing. www.conservationtales.com/conservation-tales-junior.html
- McConnell, T.J., Bloom, A., & Bockover, J. (2019). *Conservation Tales: Elephants*. Muncie: Airway Publishing. www.conservationtales.com/elephants
- McConnell, T.J., Ewing, K., & Page, A. (2019). *Conservation Tales: Giraffes*. Muncie: Airway Publishing. www.conservationtales.com/giraffes
- McConnell, T. J. (2018). *Conservation tales: Sea turtles*. Muncie: Airway Publishing. www.conservationtales.com/sea-turtles
- McConnell, T. J., Brown, M. J. (2018). *Conservation tales: Seahorses*. Muncie: Airway Publishing. www.conservationtales.com/seahorses
- McConnell, T. J., Stallard, S. (2018). *Conservation tales: Manatees*. Muncie: Airway Publishing. www.conservationtales.com/manatees

Book Chapters

- Tank, J. L., Bernot, M. J., Rosi-Marshall, E. J. Nitrogen limitation, uptake, and turnover in stream ecosystems. In *Methods in Stream Ecology*. Academic Press.

Other Publications

- Desouza, J.M.S. (2019). The Ring of Fire- A Narration of Volcanic and Seismic Activity Using The Story Map APP. [Abstract]. Presented at: INTED 2019. *Proceedings of the 13th International Technology Education and Development Conference*. March 11-13, Valencia, Spain. doi 10.21125/inted.2019.1841
- Desouza, J.M.S. (2019). Using Geographic Information System (GIS) To Introduce STEM Experiences for Pre-Service Teachers. [Abstract]. Presented at: INTED 2019. *Proceedings of the 13th International Technology Education and Development Conference*. March 11-13, Valencia, Spain. doi:10.21125/inted.2019.1768
- Hook, T., Foley, C., Collingsworth, P., Dorworth, L., Fisher, B., Hoverman, J., LaRue, E., Pyron, M., Tank, J., Widhalm, M., & Dukes, J. (2018). Aquatic ecosystems in a shifting Indiana climate: A report from the Indiana climate change impacts assessment. *Aquatic Ecosystems Reports*, Paper 1. West Lafayette, IN: Purdue e-Pubs. <https://docs.lib.purdue.edu/aquatictr>
- Islam, K. (2018). Conserving the rare Cerulean Warbler in Indiana Forests (2nd ed., vol. 27, pp. 6-7, 12). Butlerville, Indiana: The Woodland Steward.
- Olson, C., & Blakey, C. A. (2018). Genetic testing and your friesian. *The Friesian* (Oct/Nov ed., pp. 49-54). Lexington, KY: FHANA.
- Olson, C., & Blakey, C. A. (2018). Genetic testing and your friesian – extended updates on genetics and disorders. *FHANA Website Article Database* (pp. 10). Lexington, KY: FHANA. www.fhana.com/news/news-list/item/3859506-genetic-testing-and-your-friesian
- Robinson-Hill, R. M. (2018). Community - extending immersive learning opportunities to high school minority students. *Immersive Learning Newsletter - College of Sciences and Humanities* (1st ed., vol. 1, pp. 4). Muncie, IN: Ball State University.
- Zmlauski-Tucker, MJ, & Ye, B. (2018). Effect of exogenous supplementation with alpha lipoic acid on nuclear reduced glutathione levels in rat kidney cortex and medulla. *J Am Soc Nephrol*. 29: 278. (Published Abstract)

Funded Grants

- Bernot, R., 2019 West Nile Virus Surveillance Cooperative Program. Indiana State Department of Health, \$61,526.
- Carter, T., Urban Goose Study. Indiana Department of Natural Resources, \$690,846.
- Carter, T., A Proposal to Track Indiana Bats on Sparta Training Area. Illinois Army National Guard, \$30,409.
- Islam, K., Do Territory and Home Range Sizes Differ in Cerulean Warblers (*Setophaga cerulea*)? Amos W. Butler Audubon Society, \$2,925.
- Islam, K., Using Light-Level Geolocation to determine the Migration Routes and Wintering Locations of a Rapidly Declining Neotropical Migrant. Amos W. Butler Audubon Society, \$1,455.

- Leblanc, C., Orchid Species Acquisition for Conservation and Propagation. Mid-America Orchid Congress, \$400.
- Mager, G., Ball State University STEM Educator Exchange. Discovery Group, \$8,968.
- Pyron, M., Year Two: Fish Assemblages in Floodplain Lakes of the Lower Wabash, Lower White, and Lower West Fork of the White River, Indiana. The Nature Conservancy, \$13,960.
- Robinson-Hill, R., Support for Ball State University Training Future Scientist (TFS) Program for Elementary Education Pre-Service Teachers. Dr. Courtney Crim, \$5,000.
- Rubenstein, E., Genetic Requirements for Protein Degradation at the Eukaryotic Translocon. National Institutes of Health, \$429,191.
- Sharma, B., Apelin receptor signaling: A Dynamic Regulatory Mechanism of Coronary Angiogenesis. Indiana Academy of Science, \$2,998.
- Smaldino, P., The Role of the G-quadruplex Binding Activity in Cancer Susceptibility and ALS disease. Miami Foundation for Cancer Research, Inc., \$10,000.
- Venturelli, P., CLIMATEFISH: Effects of CLIMATE Change on the Early Life Stages of FISH Species: An Intercontinental Comparison. Embassy of France in the United States, \$10,000.
- Ward, J., Equipment Donation DanioVision Observation Chamber and Rack System. Eli Lilly and Company, \$5,000.
- Venturelli, P., Evaluating the Population-level Impacts of Environmental Stressors on Sturgeon. U.S. Department of the Interior, \$169,559.
- Ward, J., Evaluation of Sub-lethal Effects of Neurodegenerative Cyanotoxins on Predator-Prey Interactions in a Freshwater Fish. Purdue University, \$15,000.
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- Cole, R., Reynders, G., Ruder, S., Stanford, C., & Lantz, J. (2019). Constructive alignment beyond content: Assessing professional skills in student group interactions and written work. In M. Schultz, S. Schmid, & G. Lawrie (Eds.), *Research into Practice in Chemistry Education - Selected Contributions from the 25th IUPAC International Conference on Chemistry Education 2018*. Springer.
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Conference Proceedings

- Cole, R., Lantz, J., Ruder, S., Reynders III, G., & Stanford, C. (2018). Enhancing learning by assessing more than content knowledge. *American Society for Engineering Education (ASEE) Annual Conference & Exposition*. Salt Lake City, UT. Paper ID #22684.

Funded Grants

- Khisamutdinov, E., Characterization of Various Multifunctional Nucleic Acid Nanoparticles and Understanding their Immunotoxicity. UNC Charlotte, \$53,000.

Computer Science

Journal Articles

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Funded Grants

- Bagga, J. Voting Systems Technical Oversight Program (VSTOP), (co-PI with Drs. Bryan Byers and Charles Taylor, Funded by Secretary of State of Indiana,) Funded for July 1, 2017- July 30, 2019, \$1,190,000.
- Ergin, H., Bridging the Reverse Engineering Gap from Ada to fUML Security and Software Engineering Research Center (S2ERC). Raytheon, \$38,000.
- Gestwicki, P., Computer Science The Space Race Game: Designing an Educational Game inspired by the Apollo Program. Space Grant Consortium, \$10,000.
- Lin, L. Computer Science Framework: Software: Collaborative Research: CyberWater-An open and sustainable framework for diverse data and model integration with provenance and access to HPC. National Science Foundation, \$39,996.

- Lin, L., Software Science: How Far Could Mathematics and Rigor Take Us? Air Force Research Laboratory (through the NSF Security and Software Engineering Research Center), \$38,826.
- Wu, S., ARM Software Donation. ARM Software, \$380,000.
- Wu, S., Collaborative Research: Security and Software Engineering Research. National Science Foundation, \$10,000.
- Wu, S., Collaborative Research: Security and Software Engineering Research. National Science Foundation, \$41,692.
- Wu, S., Improving Software Code Security with Automated Vulnerability Analysis and Inference with Multi-Case Base Reasoning. Georgetown University, \$23,645.
- Wu, S., NSF MRI Program, Award# 1726017, "MRI: Acquisition of a GPU-Based Cloud Infrastructure for Inter-/Multi-Disciplinary Research and Education at a Primarily Undergraduate Institution", Amount: \$260,000.00, Duration: 09/2017–08/2020
- Zage, D. Code Duplication++. Georgetown University, \$76,040.
- Zage, W., OmniSci Membership: \$560,000 in-kind.
- Zage, W., Ontario Systems Membership. Ontario Systems Corporation, \$20,000.
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Criminal Justice and Criminology

Journal Articles

- Bolger, P. C., & Lytle, D. J. (2018). A meta-analysis of suspect demographic characteristics and American police officer search decisions. *Criminology, Criminal Justice, Law & Society*, 19(2), 1-23.
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- Gibbs, B. R. (2018). Sentencing drug court failures: Judicial considerations with increased offender information. *Criminal Justice Policy Review*, online first.
- Gibbs, B. R., Lytle, R., & Wakefield, W. (2018). Outcome effects on recidivism among drug court participants. *Criminal Justice and Behavior*, 46(1), 115-135.
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- Ho, T., & Intravia, J. (2019). Racial disparities and similarities in risk assessment among incarcerated juvenile offenders. *Justice Policy Journal*, 16(1), 1-19.
- Intravia, J. (2019). Investigating the influence of social media consumption on punitive attitudes among a sample of U.S. university students. *International Journal of Offender Therapy and Comparative Criminology*, 63(2), 309-333.
- Intravia, J., Gibbs, B. R., Wolff, K. T., Paez, R., Bernheimer, A., & Piquero, A. R. (2018). The mediating role of street code attitudes on the self-control and crime relationship. *Deviant Behavior*, 39(10), 1305-1321.

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- Intravia, J., Piquero, A. R., & Piquero, N. L. (2018). The racial divide surrounding United States of America national anthem protests in the National Football League. *Deviant Behavior*, 39(8), 1058-1068.
- Intravia, J., Piquero, A. R., Piquero, N. L., & Byers, B. D. (in press). Just do it? An examination of race on attitudes associated with Nike's advertisement campaign featuring Colin Kaepernick. *Deviant Behavior*.
- Koslicki, W. M. (in press). Accountability or efficiency? Body-worn cameras as replicative technology. *Criminal Justice Review*.
- Koslicki, W. M., Makin, D. A., & Willits, D. (2019). When no one is watching: evaluating the impact of body-worn cameras on use of force incidents. *Policing & Society*.
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- Rocheleau, G. C. (2018). Long-term relationships between adolescent intense work and deviance: Are there differences by social class? *Advances In Life Course Research*, 37, 69-78.
- Rocheleau, G. C., & Rocheleau, B. N. (2019). Consequences of accommodation: parental perceptions of school staff and peer bullying of children with food allergies. *International Journal of Bullying Prevention*.
- Rocheleau, G. C., & Rocheleau, B. N. (2019). The mark of a food allergy label: School accommodation policy and bullying. *Journal of School Violence*, 10.
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- Vito, A. G., Schaefer, B. P., Higgins, G. E., Marcum, C. M., & Ricketts, M. L. (2019). Self-control, social Learning theory, social bonds and binge drinking: Results from a national sample. *Journal of Substance Use*, 1-5.

- Wolff, K. T., Cuevas, C., Intravia, J., Baglivio, M., & Epps, N. (2018). The effects of neighborhood context on exposure to adverse childhood experiences (ACE) among adolescents involved in the juvenile justice system: Latent classes and contextual effects. *Journal of Youth and Adolescence*, 47(11), 2279-2300.
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English

Journal Articles

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- Begnal, M. S. (2018). Modernist mythologies: The Turquoise Trail Anthology and the poets of Santa Fe. *Western American Literature*, 53 (2), 175-203.
- Begnal, M. S. (2018). "Bullets for hands": Witter Bynner, Arthur Davison Ficke, and the Spectra Poems of World War I. *Twentieth-Century Literature*, 64 (2), 223-46.
- Salloum, S., Hodge, E., & Benko, S. L. (in press). Organizing for instruction: A typology of intermediary organizations active in Common Core implementation. *Journal of Educational Change*.
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- Christman, J. C. (2018). Life's not a paragraph: A literary love story. *River Teeth*, 19 (2), 87-97.
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- Peterson, R. (2018). Janet Flanner's transnational, lesbian, modernist novel, *The Cubical City*. *Revue Électronique d'Études sur le Monde Anglophone*, 15.3.
- Ferguson, M. E. (2019). "I retract that bit": Hypermasculinity and violence in Martin McDonagh's films. *Literature Interpretation Theory (LIT)/Taylor & Francis*. <https://www.tandfonline.com/doi/abs/10.1080/10436928.2019.1561127?journalCode=glit20>
- Hansen, S. C. (2019). Fifteen things I've noticed while trying to hit 10,000 steps per day: Muncie, Indiana Edition. *Hobart*, online.
- Ludwig, K. (2018). Inside looking in: Complicity and critique. *Christianity and Literature*, 68 (7), 511-518.
- Ludwig, K. "Inhabiting space and abiding in grace." *Humanities*.
- Rutter, E. R. (2018). Reckoning with the ghost of fleet walker in Adam Mansbach's *Angry Black White Boy* or, The miscegenation of Macon Detornay. *Aethlon*, 33 (2), 1-18.

- Rutter, E. R. (2019). The aristocratic poor. *Southern Cultures, Fall 2019*.
- Rutter, E. R. The creative recuperation of 'Blind Tom' Wiggins in Tyehimba Jess's *Olio* and Jeffery Renard Allen's *Song of the Shank*. *MELUS*.
- Spanke, J. (2018). From *The Outsiders*, looking in: Using found poetry to explore genre conventions in young adult literature. *The Looking Glass: New Perspectives on Children's Literature*.
- Spanke, J. (2018). Magnificent things and terrible men: Teaching Sherman Alexie in the age of #MeToo. *English Education*.
- Shoffner, M., Homa, L., & Spanke, J. Reflective literacy as required practice: Teacher reflection and literacy instruction in the secondary ELA classroom. *Ubiquity: The Journal of Literature, Language, and the arts*.
- Zimmermann, P., Stallings, L., Pierce, R., & Largent, D. (2018). Classroom interaction redefined: Multidisciplinary perspectives on moving beyond traditional classroom spaces to promote student engagement. *Journal of Learning Spaces, 7*, 45-61.
- Morita-Mullaney, T., & Stallings, L. M. (2018). Serving Indiana's Emergent Bilingual Immigrant (EBI) Youth: A collective case study of EBI teacher educators. *The Teacher Educator/Taylor & Francis, 53* (3), 293-312.
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- Vercellotti, M. L., & McCormick, D. E. (2018). Self-correction profiles of L2 english learners: A longitudinal multiple-case study. *TESL-EJ, 22*(3), 25. <http://www.tesl-ej.org/wordpress/issues/volume22/ej87/ej87a3/>
- Vercellotti, M. L. (2018). Finding variation: Assessing the development of syntactic development in ESL speech. *International Journal of Applied Linguistics*.
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Books

- Rutter, E. R. (2018). *Invisible ball of dreams: Literary representations of baseball behind the color Line*. Oxford, MS: University Press of Mississippi.
- Rutter, E. R. (2018). *The blues muse: Race, gender, and musical celebrity in American poetry*. Tuscaloosa, AL: University of Alabama Press.

Edited Books

- (in press). Bloomsbury cultural history of disability: Long nineteenth-century volume. In J. L. Huff & M. S. Holmes (Eds.), *Bloomsbury cultural history of disability* (vol. 5). London, UK: Bloomsbury (Under Contract for 2018 Publication).
- Rutter, E. R. (2019). Edited collection of critical essays and poetry. In E. R. Rutter, T. Austin, S. Maner, & D. Scott (Eds.), *Revisiting the elegy in the black lives matter era*. New York, NY: Routledge.

Book Chapters

- Christman, J. C. (2018). Slaughterhouse island. In *Not that bad: Dispatches from a rape culture* (pp. 15-31). New York, NY: HarperPerennial.
- Christman, J. C. Going back to plum island. In *River Teeth at 20*. Albuquerque, NM: University of New Mexico Press.
- Christman, J. C. The sloth. In *The Best of BREVITY*. Brookline, MA: Rose Metal Press.
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- Malone, S., Petrography and heavy mineral analysis of sandstones from the Raccoon Creek and Buffalo Wallow groups, eastern Illinois Basin: Examining the sediment impact of Appalachian mountain building in western Indiana. Indiana Academy of Science, \$1,001.
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- Felker-Kantor, M., IWPCI Coordinator. Bard College, \$4,000.

Mathematical Sciences

Journal Articles

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Funded Grants

- Kraus, R., Association for the Sociology of Religion - Course Buyout. Association for the Sociology of Religion, \$15,500.
- Pellerin, L., Bursting: Visual Story Telling of Muncie's Women. Ball Brothers Foundation, \$3,900.