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Celebrating Recent Research Achievements March 2022 to May 2022 Issue

As we head into the summer semester, we hope it is a great time for writing, reading, and reflection. Below, find a list of the recent self-submitted achievements in scholarship and sponsored programs. Browse the titles, note the DOI, read an abstract or two, and make a connection to someone's work on campus.

You might have noticed that the last two issues have fewer products to enjoy. This is not because there are fewer achievements on campus but because we were trying to out a self-submission process since our Kraemer Family Library partnership ended at the start of the year.

Know that the Office of Research is looking into new ideas and options to bring you a more complete picture of the achievements every few months. In the meantime, please keep self-submitting those films, exhibits, publications and other products

Self-Submit Your Research & Creative Work

Recently Funded Awards



March 2022

Crystal Vander Zanden - Conformational Flexibility of Lipxygenases and its Role in Regulation and Substrate Acquisition. *Louisiana State University*

April 2022

Ji Hyun Oh - NATURE PLAY, PLAY NATURALLY: Supporting Outdoor and Nature-Based. *Froebel Trust*

Nicole Weis - GRIT Expansion. *El Paso County*

May 2022

Brandon Runnels - CAREER: A Multichannel Convolutional Neural Network Framework for Prediction of Damage Nucleation Sites in Microstructure. *National Science Foundation*

Judith Scott - Jumpstart the Aging Workforce Solution (Jaws). *National Science Foundation*

Hot Off the Press

Curl up with a good book from one of our outstanding UCCS authors (listed in bold in alphabetical order). Click here to read Past Author Spotlights



Brandt, Susan H. *Women Healers: Gender, Authority, and Medicine in Early Philadelphia*. Philadelphia: University of Pennsylvania Press, 2022. <https://www.upenn.edu/pennpress/book/16341.html>

Wynn, T., & **Coolidge, F.** (2022). *An Introduction to Evolutionary Cognitive Archaeology*. Routledge.

Staley, Constance. *FOCUS on Community College Success*. 6th ed. Boston: Cengage. 2023.

Theobald, Rebecca and Dwayne Liller. "The 2020 Colorado Third Congressional District Election." In *Atlas of the 2020 Elections*, edited by Robert H. Watrel, Kimberly Johnson Maier, Ryan Weichelt, Fiona M. Davidson, John Heppen, Erin H. Foubert, J. Clark Archer, Richard L. Morrill, Fred M. Shelley, and Kenneth C. Martis, 232-235. Lanham, MD: Rowan & Littlefield, 2022.

Recent Publications

Starting this Spring 2022, we now gather submissions for this newsletter using the self-submission portal.

Faculty, Staff, and Research Associate names in **bold**. Names in **blue** are students.
In alphabetical order by first UCCS faculty author.

A

Amicucci, Ann. "#ShopSmall Because #ArtAintFree: Instagram Artists' Rhetorical Identification with Community Values." *Computers and Composition* 64 (2022): 1-16.

B

J. H. Seaton and **P. N. Brown**, "All Stable Equilibria Have Improved Performance Guarantees in Submodular Maximization With Communication-Denied Agents," in *IEEE Control Systems Letters*, vol. 6, pp. 2491-2496, 2022, <https://ieeexplore.ieee.org/document/9755974>

C

Patrick McGuire, **Breanna Himot**, **Grant Clayton**, **Monica Yoo**, and Mary E. Logue. "Booked on math: Developing math concepts in pre-K classrooms using book readings." *Early Childhood Education*, (2021). <https://doi.org/10.1007/s10643-020-01073-1>

Grant Clayton, **Phillip Morris**, **Joseph Taylor**, and **Dick M. Carpenter**. "NCES public datasets for research: A case study using Beginning Postsecondary Students (BPS) Longitudinal Study." *Sage Research Case Studies*. (2022). doi.org/10.4135/9781529600131

Clayton, Grant, and **Marah C. Guzman**. "Predictors of Advanced Placement and Concurrent Enrollment course offerings." *Educational Research: Theory and Practice* (2022). <https://www.nrmera.org/educational-research-theory-practice/current-issue/>

Corcoran, Aaron J. "Sing or Jam? Density-Dependent Food Competition Strategies in Mexican Free-Tailed Bats (*Tadarida brasiliensis*)." *Frontiers in Ecology and Evolution* 10 (2022). <https://doi.org/10.3389/fevo.2022.877579>.

F

Lissanna M. Follari (2022): Relationship-Centered Education in Primary School: An Ethnographic Case Study, *Journal of Research in Childhood Education*, DOI: 10.1080/02568543.2022.2025961 <https://www.tandfonline.com/doi/full/10.1080/02568543.2022.2025961>

H

Guy M Hagen, **Justin Bendesky**, Rosa Machado, Tram-Anh Nguyen, Tanmay Kumar, Jonathan Ventura, Fluorescence microscopy datasets for training deep neural networks, *GigaScience*, Volume 10, Issue 5, May 2021, giab032. <https://academic.oup.com/gigascience/article/10/5/giab032/6269106>

Paul, T. C.; **Hagen, G. M.**; **Pinchuk, A. O.** & **McNear, K.** Optimization of laser deposited silver nanoparticle substrates for surface enhanced raman spectroscopy Nanotechnology, 2022 <https://iopscience.iop.org/article/10.1088/1361-6528/ac622e/meta>

Jedlicka, Scott, **Harris, Spencer**, and Houlihan, Barrie. Policy Analysis in Sport Management" Revisited: A Critique and Discussion. *Journal of Sport Management*. Ahead of Print, 1-15. 2021. <https://journals.humankinetics.com/view/journals/jsm/aop/article-10.1123->

[jsm.2021-0193/article-10.1123-jsm.2021-0193.xml](https://journals.humankinetics.com/view/journals/jsm/aop/article-10.1123-jsm.2021-0193/article-10.1123-jsm.2021-0193.xml)

Dowling, Mat, **Harris, Spencer**, and Washington, Marvin. When a Ban Is Not a Ban: Institutional Work and the Russian Doping Scandal. *Journal of Sport Management*. Ahead of Print, 1-15. 2021. <https://journals.humankinetics.com/view/journals/jsm/aop/article-10.1123-jsm.2021-0185/article-10.1123-jsm.2021-0185.xml>

I

D. Turenne, A. Yaroslavtsev, X. Wang, V. Unikandanuni, I. Vaskivskyi, M. Schneider, E. Jal, R. Carley, G. Mercurio, R. Gort, N. Agarwal, B. van Kuiken, L. Mercadier, J. Schlappa, L. Le Guyader, N. Gerasimova, M. Teichmann, D. Lomidze, A. Castoldi, D. Potorochin, D. Mukkattukavil, J. Brock, N. Zhou Hagström, A. H. Reid, X. Shen, X. J. Wang, P. Maldonado, Y. Kvashnin, K. Carva, J. Wang, Y. K. Takahashi, E. E. Fullerton, S. Eisebitt, P. M. Oppeneer, S. Molodtsov, A. Scherz, S. Bonetti, **E. Iacocca**, and H. A. Dürr, Non-equilibrium self-assembly of spin-wave solitons in FePt nanoparticles. *Science Advances* 8, eabn0523 (2022) <https://www.science.org/doi/full/10.1126/sciadv.abn0523>

Hu, M., **Iacocca, E.**, and Hoefer, M. A. "Spin-piston problem for a ferromagnetic thin film: shock waves and solitons." *Phys. Rev. B* 105, (2022): 104419. <https://doi.org/10.1103/PhysRevB.105.104419>

K

Kirby, Jessica Brooke and **Mary Ann Kluge**. 2021. "For the Love of the Game: An Exploration of the Experiences and Psychosocial Development of Women 70 Years of Age and Older Who Play Volleyball." *Journal of Aging and Physical Activity*: 1-10. <https://doi.org/10.1123/japa.2021-0100>

Kirby, Jessica B., Megan Babkes Stellino, **Cynthia Lewis**, **Kimberly Humphrey**, **Katie Gordon**, and **Keston G. Lindsay**. 2022. "You've Got a Friend in Me: Fostering Social Connection among College Students through Peer-Led Physical Activity." *Health Promotion Practice*. <https://doi.org/10.1177/15248399211072535>

Sara Rodriguez, **Ashley Ward**, **Andrew T Reckard**, **Yulia Shtanko**, **Clayton Hull-Crew**, **Andrew D Klocko** "The genome organization of *Neurospora crassa* at high-resolution uncovers principles of fungal chromosome topology" *G3: Genes, Genomes, Genetics* (March 4, 2022) doi: 10.1093/g3journal/jkac053. Online before print

L

Laroche, Rebecca. "Lady Brilliana Harley's Angelica Root." Early Modern Women forum "Early Modern Women and Epidemic." Vol. 16.1 (Fall 2021): 82-90. <https://www.journals.uchicago.edu/toc/emw/2021/16/1>

McLoughlin, G. M., Sweeney, R., Liechty, L., **Lee, J. A.**, Rosenkranz, R. R., Welk, G. J. Evaluation of a large-scale school wellness intervention through the Consolidated Framework for Implementation Research (CFIR): Implications for dissemination and sustainability. *Frontiers in Health Services*. 2022. <https://doi.org/10.3389/frhs.2022.881639>

Lyle, Matthew CB, Ian J. Walsh, and Bogdan Prokopovych. "EXPRESS: Engaging with the Past: Discerning Meaning in Organizational Imprints." *Strategic Organization* (2022): https://journals.sagepub.com/doi/abs/10.1177/14761270221099044?casa_token=jm-qQS2H0tkAAAAA.OITIQJ429ME8FubjPCQat1SSDzpB15Kgh6npOChlqSf6V_alapsUL_VbvlMw-_hacC1aPRLR4BBF

Do, Boram, and **Matthew CB Lyle**. "Memory-based change management: Using the past to guide the future." *Organizational Psychology Review* (2022): https://journals.sagepub.com/doi/full/10.1177/20413866221093512?casa_token=3kjQGR1fjX8AAAAA%3AiYnrXco8jnflaF40oFQifpWCXM_Wz1mUQSIgkm3XIW0fWewNJFLxGGaGdyj6_9S_aXf9vV7Cw5rU

Walsh, Ian J., Federica Pazzaglia, **Matthew CB Lyle**, and Karan Sonpar. "Professional credibility under attack: Responses to negative social evaluations in newly contested professions." *Human Relations* (2021): https://journals.sagepub.com/doi/full/10.1177/00187267211056531?casa_token=O2qxJoTjVkAAAAA%3Av_YkQ3gt0nl73nVdZmcq238cEW_SUqdiJ1k-eUYaxlw3tAH1tGY6nPg3VrjKcYnswkMs9Us1zQ26

Lyle, Matthew CB, Ian J. Walsh, and Diego M. Coraiola. "What is NORML? Sedimented Meanings in Ambiguous Organizational Identities." *Organization Studies* (2021): <https://journals.sagepub.com/doi/abs/10.1177/01708406211057725>

M

Mesyan, Z. and **Rangaswamy, K.**, "Products and intersections of prime-power ideals in Leavitt path algebras," *Journal of Algebra and its Applications* 21, no. 5 (2022): 2250104, 26 pages <https://www.worldscientific.com/doi/abs/10.1142/S0219498822501043>

O

Overmann, Karenleigh A. 2022. "Early Writing: A Cognitive Archaeological Perspective on Literacy and Numeracy." *Visible Language* 56 (1): 8-44. <https://doi.org/10.34314/vl.v56i1.4934>.

S

Sartin, Roy Jo. "Egyptomania as a Fandom (or Two): How Fanon Became Canon in the World's Oldest Fandom." *Participations: Journal of Audience & Reception Studies* 18, no. 2 (2021): 159-186. <https://www.participations.org/Volume%2018/Issue%202/7.pdf>

Brown, E. R., **Smith, J. L.**, & Rossmann, D. (2022). "Broad" Impact: Perceptions of Sex/Gender-Related Psychology Journals. *Frontiers in Psychology*, 13. <https://doi.org/10.3389/fpsyg.2022.796069>

Hughes, B. E., **Smith, J. L.**, Bruun, M., Shanahan, E. A., Rushing, S., Intemann, K., Handley, I. M., Belou, R., Stoop, C., & Sterman, L. (2022). Department leaders as critical conduits for the advancement of gender equity programs. *Journal of Women and Gender in Higher Education*, 15, 41-64. <https://www.tandfonline.com/doi/abs/10.1080/26379112.2022.2034122>

Swanson, K. J., Painter, J. L., Blanchard, M. R., & Gervase, K.D. (2022, April). Why Olympiad: Investigating Motivations and Benefits of Coaching Elementary Science Olympiad. *Journal of Science Teacher Education*. <https://doi.org/10.1080/1046560X.2021.2024690>

T

Tai, R., **Taylor, J.**, Reddy, V., & Banilower, E. (2022). The contribution of large educational surveys to science teacher education. In Julie A. Luft & M. Gail Jones (Eds.) *Handbook of Research on Science Teacher Education*. NY: Routledge. <https://www.taylorfrancis.com/chapters/edit/10.4324/9781003098478-3/contribution-large-educational-surveys-science-teacher-education-research-robert-tai-joseph-taylor-vijay-reddy-eric-banilower>

Allison J. LaFave, **Joseph A. Taylor**, Amelia M. Barter & Ariel S. Jacobs (2022) Student Engagement on the National Assessment of Educational Progress (NAEP): A Systematic Review and Meta-Analysis of Extant Research, Educational Assessment, DOI: 10.1080/10627197.2022.2043151 <https://www.tandfonline-com.libproxy.uccs.edu/doi/full/10.1080/10627197.2022.2043151>

V

Bonneau, Lisa, and **L. Vidler**. "Improving Assessment Strategies and Culture Through College Collaboration and Coaching," *Assessment Update*, vol. 34.3 (May/June 2022), pp. 6-12. <https://doi.org/10.1002/au.30302>

Didn't get a chance to submit your research this round? Submit now for the next newsletter in May! You can submit anytime you have a new research/creative work product to share.

#UCCSRResearch

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