



Celebrating Recent Research Achievements March 2021 to May 2021 Issue

Summer is the perfect time to make a dent in your reading, watch, and listen list.

Below, find a list of the recent 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. Above all, bask in the reflected glory of all the extraordinary achievements on our campus.

Recently Funded Awards



March 2021

Shouhuai Xu - A Framework for Enhancing the Resilience of Cyber Attack Classification and Clustering Mechanisms. *National Science Foundation*

Michele Okun, Leilani Feliciano - Insomnia Phenotypes and their Impact on Maternal and Infant Health. *National Institutes of Health*

Kimberly Reeves - Colorado Tree Coalition Tree Grant. *Colorado Tree Coalition*

April 2021

Adham Atyabi, Monique French - Lightweight-Low Cost Hyperspectral Sensor Integration to Support Urban Air Mobility Operations. *Spectrabotics Subcontract*

Mark Tomforde - Graph C*-algebras and Leavitt Path Algebras: Classification and Structure. *Simons Foundation Grant*

Max Shulman, Jennifer Kling - To the Battlefield and Back Again: Conversations on War, Trauma, and Life After Services. *National Endowment for the Humanities*

May 2021

Kathy Prue-Owens - Nurses' Lived Experience of COVID-19: A Mixed Method Study. *Penrose-St. Francis Health Foundation*

Shouhuai Xu - REU Supplement: SaTC: CORE: Small: Collaborative: A Framework for Enhancing the Resilience of Cyber Attack Classification and Clustering Mechanisms. *National Science Foundation*

Kevin Tvrdy - Synthesis and Characterization of Novel Hydrogel Formulations for the Single Chirality Purification of Single-Walled Carbon Nanotubes. *National Science Foundation*



Dassanowsky, Robert, co-producer. *One More Step West is the Sea: Ruth Weiss*, dir. Thomas Antonic. Austria: A Canto XXIII Film Productions/Perdurabo Film/Belvedere Film Production, 2021. Film site: <https://ruth-weiss.com/>

Hot Off the 2021 Press

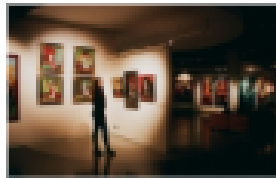
Curl up with a good book from one of our outstanding UCCS authors (listed in bold in alphabetical order).
Check out our Author Spotlight Series in the Communique.



Read Author Spotlights

Harner, John. *Profiting from the Peak: Landscape and Liberty in Colorado Springs*. Louisville, CO: University Press of Colorado, 2021

Scholes, Jeffrey. *Christianity, Race, and Sport*. Abington, UK: Taylor and Francis, 2021.



Exhibition

Explore the extraordinary exhibits featuring work by our creative artists at UCCS.

Barton, Matthew. *Community Forms*, permanent public art. Taxi Campus, Denver, Colorado. Opened May 22, 2021. <https://blackcube.art/exhibition/community-forms>

Kingsley, Ben. *Dirt Worshiper II*, audio/visual media. *Our Valley Speaks: A Sanpete Experience*, exhibit. Granary Arts, Ephraim, Utah. May 29, 2021. <https://sitetesetforknowledge.org/2021/04/30/our-valley-speaks-a-sanpete-experience-the-artworks/>

Kingsley, Ben, featured artist. *Foragers*, exhibit. Dedee Shattuck Gallery, Westport, Massachusetts. June 4-27, 2021. <http://dedeeshattuckgallery.com/2021-exhibitions>

Recent Publications

Citations are gathered based on when they appear in a variety of databases or when a faculty member supplies the information. Publication dates will vary but are generally those that appeared in print since the last issue of this bulletin.

Faculty, Staff, and Research Associate names in **bold**. Names in **blue** are students.

In alphabetical order by first UCCS faculty author.

A

Newland, Brianna L., **Thomas J. Aicher**, Melissa Davies, and Eric Hungenberg. "Sport event ecotourism: sustainability of trail racing events in US National Parks." *Journal of Sport & Tourism* (2021): 1-27. <https://doi.org/10.1080/14775085.2021.1902374>

B

Ba, Yuhao, **Jessica Berrett**, and Jason Coupet. "Panel Data Analysis: A Guide for Nonprofit Studies." *VOLUNTAS: International Journal of Voluntary and Nonprofit Organizations* (2021): 1-16. <https://doi.org/10.1007/s11266-021-00342-w>

Bingham, Andrea J., Matthew Adams, and **Randall Lee Stewart**. "Competency-Based Education: Examining Educators' Experiences." *The Qualitative Report* 26, no. 3 (2021): 674-695. <https://doi.org/10.46743/2160-3715/2021.4383>

Bloom, Gedare. "WeepingCAN: A Stealthy CAN Bus-off Attack." In *Workshop on Automotive and Autonomous Vehicle Security (AutoSec)*, vol. 2021, 25. (2021). Retrieved from: https://www.ndss-symposium.org/wp-content/uploads/autosec2021_23002_paper.pdf

Marshall, James, Robert Gifford, **Gedare Bloom**, Gabriel Parmer, and Rahul Simha. "Precise Cache Profiling for Studying Radiation Effects." *ACM Transactions on Embedded Computing Systems (TECS)* 20, no. 3 (2021): 1-25. <https://doi.org/10.1145/3442339>

Diaz, Fernando, Carson W. Allan, Therese Ann Markow, **Jeremy M. Bono**, and Luciano M. Matzkin. "Gene expression and alternative splicing dynamics are perturbed in female head transcriptomes following heterospecific copulation." *BMC genomics* 22, no. 1 (2021): 1-13. <https://doi.org/10.1186/s12864-021-07669-0>

Júnior, Pedro Ribeiro Mendes, **Terrance E. Boulton**, Jacques Wainer, and Anderson Rocha. "Open-Set Support Vector Machines." *IEEE Transactions on Systems, Man, and Cybernetics: Systems* (2021). <https://doi.org/10.1109/TSMC.2021.3074496>

Braza, Peter A. "Polar eigenvectors: a better way?." *International Journal of Mathematical Education in Science and Technology* (2021): 1-5. <https://doi.org/10.1080/0020739X.2021.1895342>

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Kim, Joo-Von, Robert L. Stamps, and **Robert E. Camley**. "The 2021 Magnonics Roadmap: Power Flow and Caustics in Thin Magnetic Materials." *Journal of Physics: Condensed Matter* (2021). <https://doi.org/10.1088/1361-648X/abec1a>

DeLouize, Alicia M., Melissa A. Liebert, Felicia C. Madimenos, Samuel S. Urlacher, Joshua M. Schrock, **Tara J. Cepon-Robins**, Theresa E. Gildner et al. "Low prevalence of anemia among Shuar communities of Amazonian Ecuador." *American Journal of Human Biology* (2021): e23590.
<https://doi.org/10.1002/ajhb.23590>

Clayton, Grant. "Advanced Placement and Concurrent Enrollment Substitution Effects." *Journal of Advanced Academics* (2021): 1932202X211004901.
<https://doi.org/10.1177%2F1932202X211004901>

Ablowitz, Mark J., **Justin T. Cole**, Pipi Hu, and Peter Rosenthal. "Peierls-Nabarro barrier effect in nonlinear Floquet topological insulators." *Physical Review E* 103, no. 4 (2021): 042214. <https://doi.org/10.1103/PhysRevE.103.042214>

Craig, J. Dean, and Niven Winchester. "Predicting the national football league potential of college quarterbacks." *European Journal of Operational Research* (2021). <https://doi.org/10.1016/j.ejor.2021.03.013>

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Dassanowsky, Robert. "Der prismatischer Star. Hans Moser und Amerika." In *Hans Moser. Wiener Weltschmerzkomiker*, edited by Gottfried Schlemmer, Georg Seesslen, Arno Russegger, 257-271. Vienna: Filmarchiv Austria, 2021.

Dassanowsky, Robert. "*Maskerade* (Masquerade in Vienna) (1934) dir. Willi Forst, writer Walter Reisch and Willi Forst" in *Lexicon of Global Melodrama*, edited by Heike Paul. Bielefeld: Transcript/New York: Columbia University Press, 2021.

Xavier, Marcelo A., **Aloisio Kawakita de Souza**, and **M. Scott Trimboli**. "A split-future MPC algorithm for lithium-ion battery cell-level fast-charge control." *IFAC-PapersOnLine* 53, no. 2 (2020): 12459-12464.
<https://doi.org/10.1016/j.ifacol.2020.12.1330>

Chang, Jamie YT, Xiaosong Wu, **Richard Discenza**, and **Gary Klein**. "Creative Software Development with Team Boundary Management." *Journal of Computer Information Systems* (2021): 1-12.
<https://doi.org/10.1080/08874417.2021.1903366>

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Mandal, Koyel, Rosy Sarmah, Dhruba Kumar Bhattacharyya, **Jugal Kumar Kalita**, and Bhogeswar Borah. "Rank-preserving biclustering algorithm: a case study on miRNA breast cancer." *Medical & Biological Engineering & Computing* (2021): 1-16. <https://doi.org/10.1007/s11517-020-02271-0>

Saikia, Manaswita, Dhruva K. Bhattacharyya, and **Jugal K. Kalita**. "BicGenesis: A Method to Identify ESCC Biomarkers Using the Biclustering Approach." In *Proceedings of International Conference on Big Data, Machine Learning and Applications: BigDML 2019*, 1-14. Springer Nature, 2021.

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