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Celebrating Recent Research Achievements June 2021 to August 2021 Issue

Fall is the time for transition; the seasons, the foliage, the wardrobe.
Ease into the transition with a good article, book, performance, or
exhibit!

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



June 2021

Sang-Yoon Chang - Junior Reserve Officer Training Corps (JROTC) Cyber Academy Pilot Program. *Watcom Community College Subaward*

Shouhuai Xu, Charles Benight, Yanyan Zhuang - CICI: UCSS: ACSP4HR: Assuring Cyber Security and Privacy for Human Resilience Research: Requirements, Framework, Architecture, Mechanisms and Prototype. *National Science Foundation*

Jessi Smith, Emily Skop, Heather Song, Sylvia Mendez, Elizabeth Daniels- Adaptation: Project CREST - Changing Research Experiences, Structures, and (in)Tolerance through the Adaptation of Promising Equity Practices. *National Science Foundation*

Caitlin Lowans - 2021-2022 Shakespeare in American Communities. *Arts Midwest Grant*

July 2021

Heather Littleton - Development and Pilot Evaluation of an Online Intervention to Prevent Dating Violence and Problem Drinking in Sexual Minority Youth. *University of Nebraska-Lincoln Subaward*

Christopher Layne - National Child Trauma Workforce Institute (UCCS-NCTWI). *SAMHSA Grant Award*

Omid Semiari - Collaborative Research: CNS Core: Small: Hierarchical Federated Learning Over Wireless Edge Networks: Performance Analysis and Optimization. *National Science Foundation*

Sang-Yoon Chang - Quantum-Driven Security in Emerging 5G Networking. *CRDF Global Award*

Rory Lewis, Terry Boulton - Multivariate Algorithms for Optimized Test Heuristics and Real-time Analysis (MAOTHR). *MSCI Subcontract*

Lissanna Follari - Transforming Early Childhood Lead Teacher Qualifications in Colorado. *University of Colorado Denver*

August 2021

Steven Tragesser - Cis-Lunar Propagation Project. *MITRE Award*

Colin Wren - Collaborative Research: NNA Research: Interactions of natural and social systems with climate change, globalization, and infrastructure development in the Arctic. *National Science Foundation*

Jugal Kalita, Richard White - 2021 DoD Cyber Scholarship Program - University of Colorado, Colorado Springs. *National Security Agency Grant Award*

Sang-Yoon Chang - 2021-Next Generation-Security-13: 6G Autonomous Secure-By-Design, Foundation Technique Research. *Electronics and Telecommunications Research Institute (ETRI) Award*



Performances

Enjoy the creative works that were performed, written, and directed by those at
UCCS

An Illiad, written by Denis O'Hare and Lisa Peterson, directed by **Max Shulman**.
Theatreworks, Colorado Springs, CO, May 6-23.

Hot Off the 2021 Press

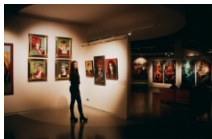
Curl up with a good book from one of our outstanding UCCS authors (listed in bold in alphabetical order).
Check out our Author Spotlight Series in the Communique.



Read Author Spotlights

Cirino, Mark and **Susan Vandagriff**. *Reading Hemingway's Winner Take Nothing: Glossary and Commentary*. Kent State University Press, 2021.

Romanowska, Iza, **Colin D. Wren**, and Stefani A. Crabtree. *Agent-Based Modeling for Archaeology: Simulating the Complexity of Societies*. The Santa Fe Institute Press, 2021.
Available online: <https://www.sfiexpress.org/books/agent-based-modeling-archaeology>



Exhibition

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

Drieth, Corey, featured artist. *THIS:THAT*, exhibit. GOCA, Colorado Springs, Colorado. September 3, 2021.

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

Abrams, Gene, Francesca Mantese, and Alberto Tonolo. "Injective modules over the Jacobson algebra." *Canadian Mathematical Bulletin* 64, no. 2 (2021): 323-339.
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Andersen, Brett P., **Laith Al-Shawaf**, and Rachel Bearden. "Positive schizotypy predicts migration intentions and desires." *Personality and Individual Differences* 182 (2021): 111096. <https://doi.org/10.1016/j.paid.2021.111096>

Norton, James O., Kortnee C. Evans, Ayten Yesim Semchenko, **Laith Al-Shawaf**, and David MG Lewis. "Why do people (not) engage in social distancing? Proximate and ultimate analyses of norm-following during the COVID-19 pandemic." *Frontiers in Psychology* 12 (2021): 1882. <https://doi.org/10.3389/fpsyg.2021.648206>

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<https://doi.org/10.1016/j.chiabu.2020.104740>

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Gassen, River, Dennis Thompkins, **Austin Routt**, Philippe Jones, Meghan Smith, William Thompson, **Paul Couture**, **Dmytro A. Bozhko**, **Zbigniew Celinski**, **Robert E. Camely**, **Guy M. Hagen**, **Kathrin Spendier**. "Optical Imaging of Magnetic Particle Cluster Oscillation and Rotation in Glycerol." *Journal of Imaging* 7, no. 5 (2021): 82.
<https://doi.org/10.3390/jimaging7050082>

Loundagain, Lindsay L., **Todd L. Bredbenner**, Karl J. Jepsen, and W. Brent Edwards. "Bringing Mechanical Context to Image-Based Measurements of Bone Integrity." *Current Osteoporosis Reports* (2021): 1-11. <https://doi.org/10.1007/s11914-021-00700-z>

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<https://doi.org/10.23919/ACC50511.2021.9483340>

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Slemaker, Alexandra, Taea Bonner, Matt DeLisi, **Jonathan W. Caudill**, and Chad R. Trulson. "Ungovernable, Incurable, and Impudent: An Empirical Study of Criminal Character Among Serious Institutionalized Delinquents." *American Journal of Criminal Justice* (2021): 1-20. <https://doi.org/10.1007/s12103-021-09639-4>

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<https://doi.org/10.1109/IWQOS52092.2021.9521287>

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