



Celebrating Recent Research Achievements December 2020 to February 2021 Issue

Spring is a time for renewal and growth. We hope you will enjoy the opportunity to spark a new interest in what your colleagues and your students have discovered, created, and innovated.

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.

Recent Funding Awards

Recent Funding Awards

December 2020

Yanyan Zhuang, Terry Boulton, Jessi Smith - CC* Planning: UCCS Computational Cluster for Science. *National Science Foundation*

Greg Plett, Scott Trimboli - Battery Model for Broadband Load. *Cirrus Logic*

February 2021

Gedare Bloom - CAREER: Foundations for Real-Time System Security. *National Science Foundation*

Greg Plett, Scott Trimboli - NSF Engineering Research Center for Advancing Sustainability through Powered Infrastructure for Roadway Electrification (ASPIRE). *Utah State University*

Brandon Runnels - Mesoscale and Continuum Modeling of Solid-phase to Determine Continuum Burn Rates in AP/HTPB. *Office of Naval Research*

Jugal Kalita, Adham Atyabi - REU Site: Deep Learning: Theory, Concepts and Applications. *National Science Foundation*

Gretchen Bliss, Gurbinder Tejay - 2020 CAE CSUSB. *California State University/San Bernardino*

Magdalene Lim - Aging Families and Caregiver Program. *Pikes Peak Area Council of Governments*

Hot off the 2020 Book 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](#)

Coolidge, Frederick L. 2020. *Evolutionary Neuropsychology: An introduction to the evolution of the structures and functions of the human brain*. New York: Oxford University Press.

Coolidge, Frederick L. 2020. *Statistics: A gentle introduction*, 4th ed. Thousand Oaks, CA: Sage.

Olkowski, Dorothea and Julián Ferreyra, eds. 2020. *Deleuze at the End of the World. An Argentinian Perspective on the Sources of his Thought*. New York and London: Rowman and Littlefield, 2020.

Sassower, Raphael. 2020. *The Specter of Hypocrisy: Testing the Limits of Moral Discourse*. London: Palgrave Macmillan/Springer Nature.

Recordings

Listen to our talented UCCS musicians on their newly released records.

McAllister, Colin, guitarist. 2021. *The Road Less Traveled*. The Hennessy 6 with the Colorado Springs Youth Symphony, Summit Records, CD.

McAllister, Colin. 2020. *Parts Together Virtual Guitar Orchestra*. Twisted Spruce Music Foundation, Frameworks Records, CD.

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

Ghossainy, Maliki E., **Laith Al-Shawaf**, and Jacqueline D. Woolley. 2021. "Epistemic Vigilance in Early Ontogeny: Children's Use of Nonverbal Behavior to Detect Deception." *Evolutionary Psychology* 19, no. 1: 1474704920986860. <https://doi.org/10.1177%2F1474704920986860>

Anderson-Pence, Katie L. 2020. "Virtual manipulatives: Making effective instructional choices." *Colorado Mathematics Teacher* 53, no. 1: 3. Retrieved from <https://digscholarship.unco.edu/cmt/vol53/iss1/3>

B

Morris, Phillip A., **Lisa Barker**, and **Astrid Monar**. 2020. "Applying the social ecological framework to enhance wellness for student veterans." *Journal of American college health*: Advance online publication. <https://doi.org/10.1080/07448481.2020.1844716>

Benton, Melissa J., **Amy L. Silva-Smith**, and **Jeffrey M. Spicher**. 2020. "Muscle Loss Is Associated with Risk of Orthostatic Hypotension in Older Men and Women." *J Frailty Aging*. <https://doi.org/10.14283/jfa.2020.72>

Coupet, Jason, **Jessica Berrett**, Paul Broussard, and Bradley Johnson. 2020. "Nonprofit Benchmarking With Data Envelopment Analysis." *Nonprofit and Voluntary Sector Quarterly*. <https://doi.org/10.1177/0899764020977670>

Biermann, Christine, Lisa C. Kelley & Rebecca Lave. 2020. "Putting the Anthropocene into Practice: Methodological Implications." *Annals of the American Association of Geographers*, <https://doi.org/10.1080/24694452.2020.1835456>.

Titus, M. Brandon, Ethan Wright, **Jeremy M. Bono**, Andrea K. Poliakou, **Brandon R. Goldstein**, **Meg K. Super**, Lauren A. Young, **Melpomeni Manaj**, Morgan Litchford, Noreen E. Reist, Darrell J. Killian, **Eugenia C. Olesnick**. 2021. "The conserved alternative splicing factor caper regulates neuromuscular phenotypes during development and aging." *Developmental Biology*, S0012-1606(21)00023-3. Advance online publication. <https://doi.org/10.1016/j.ydbio.2021.01.011>

Ghosh, Aurobrata, Zheng Zhong, **Steve Cruz**, Subbu Veeravasarapu, Maneesh Singh and **Terrance E. Boulton**. 2020. "Infoprint: Information Theoretic Digital Image Forensics." *2020 IEEE International Conference on Image Processing (ICIP)*, Abu Dhabi, United Arab Emirates, pp. 638-642. <https://doi.org/10.1109/ICIP40778.2020.9190837>.

Grimsman, David, **Joshua H. Seaton**, Jason R. Marden, and **Philip N. Brown**. 2020. "The cost of denied observation in multiagent submodular optimization." In *2020 59th IEEE Conference on Decision and Control (CDC)*, pp. 1666-1671. IEEE. <https://doi.org/10.1109/CDC42340.2020.9304054>

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Copus, Matthew G., and **Robert E. Camley**. 2020. "Creation of magnetic rogue waves." *Physical Review B* 102, no. 22: 220410. <https://doi.org/10.1103/PhysRevB.102.220410>

Carpenter, Dick, and Anthony Ward. 2021. "A New Panel Dataset for Studies Using Substate Units of Analysis and Indicators of Drug Activity." *Urban Affairs Review*. <https://doi.org/10.1177/1078087420984544>.

Carpenter, Dick, and **Joshua Dunn**. 2021. "We're All Teachers Now: Remote Learning During COVID-19." *Journal of School Choice*: 1-28. <https://doi.org/10.1080/15582159.2020.1822727>

Cepon-Robins, Tara J. 2020. "Measuring attack on self: The need for field-friendly methods development and research on autoimmunity in human biology." *Am J Hum Biol*. 2020, 1–23. <https://doi.org/10.1002/ajhb.23544>

Cepon-Robins, Tara J., Aaron D. Blackwell, Theresa E. Gildner, Melissa A. Liebert, Samuel S. Urlacher, Felicia C. Madimenos, Geeta N. Eick, J. Josh Snodgrass, and Lawrence S. Sugiyama. 2021. "Pathogen disgust sensitivity protects against infection in a high pathogen environment." *Proceedings of the National Academy of Sciences* 118, no. 8. <https://doi.org/10.1073/pnas.2018552118>

Al Guqhaiman, Ahmed, Oluwatobi Akanbi, Amer Aljaedi, and **Chinghua Edward Chow**. 2021. "A Survey on MAC Protocol Approaches for Underwater Wireless Sensor Networks." *IEEE Sensors Journal* 21, no. 3: 3916-3932. <https://doi.org/10.1109/JSEN.2020.3024995>

Smoktunowicz, Ewelina, Magdalena Lesnierowska, Per Carlbring, Gerhard Andersson, and **Roman Cieslak**. 2021. "Resource-Based Internet Intervention (Med-Stress) to Improve Well-Being Among Medical Professionals: Randomized Controlled Trial." *Journal of medical Internet research*, 23(1), e21445. <https://doi.org/10.2196/21445>

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Daniels, Elizabeth A., and Rachael D. Robnett. 2020. "The STEM Pipeline: Do Media and Objectified Body Consciousness Create an Early Exit for Middle School Girls?" *The Journal of Early Adolescence*. <https://doi.org/10.1177/0272431620983442>.

da Silva, David W. H. A., Marcelo A. Xavier, **C. Edward Chow** and **Carlos Paz de Araujo**. 2020. "Experiments with Clifford Geometric Algebra Applied to Cryptography." *2020 Joint 11th International Conference on Soft Computing and Intelligent Systems and 21st International Symposium on Advanced Intelligent Systems (SCIS-ISIS)*, Hachijo Island, Japan, pp. 1-8. <https://doi.org/10.1109/SCISISIS50064.2020.9322757>.

Dassanowsky, Robert von. 2021. "Under the Image: On Criminality, Guilt, and National Allegory in Alois Hotschnig's *Leonardo's Hands*." In *Crimes and Madness in Modern Austria: Myth, Metaphor and Cultural Realities*, edited by Rebecca S. Thomas. Newcastle on Tyne, England: Cambridge Scholars Publishing.

Dunn, Joshua. 2020. "A Landmark Ruling for Religious Schools: The future implications of *Espinoza v. Montana Department of Revenue*." *Education Next* 21, no. 1: 48-56. Retrieved from <https://www.educationnext.org/landmark-ruling-for-religious-schools-espinoza-v-montana/>

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Niu, Run H., and **Ying Fan.** 2021. "A comparative study of online review management in hospitality services." *International Journal of Services and Operations Management* 38, no. 1: 22-39. <https://doi.org/10.1504/IJSOM.2021.112513>

French, Monique, Rebecca Duray, Ying Fan. 2020. "Impact of disasters on routine emergency service response performance." *J Contingencies and Crisis Management*. 00: 1– 18. <https://doi.org/10.1111/1468-5973.12343>

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Gaddis, Margaret L. 2020. "Faculty and Student Technology Use to Enhance Student Learning." *The International Review of Research in Open and Distributed Learning*, 21(4), 39-60. <https://doi.org/10.19173/irrodl.v21i3.4600>

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Havlick, David G., and Christine Biermann. 2020. "Wild, Native, or Pure: Trout as Genetic Bodies." *Science, Technology, & Human Values*. <https://doi.org/10.1177/0162243920978307>.

Havlick, David G., Lee K. Cervený, and Monika M. Derrien. 2020. "Therapeutic landscapes, outdoor programs for veterans, and public lands." *Social Science & Medicine* 268: 113540. <https://doi.org/10.1016/j.socscimed.2020.113540>

O'Lenick, Cassandra R., Amir Baniassadi, Ryan Michael, Andrew Monaghan, Jennifer Boehnert, Xiao Yu, **Mary H. Hayden** et al. 2020. "A Case-Crossover Analysis of Indoor Heat Exposure on Mortality and Hospitalizations among the Elderly in Houston, Texas." *Environmental health perspectives* 128, no. 12: 127007. <https://doi.org/10.1289/EHP6340>

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Chowdhury, Hussain Ahmed, Pankaj Barah, Dhruva Kumar Bhattacharyya, and **Jugal Kumar Kalita.** 2021. "Identification of potential Parkinson's disease biomarkers using computational biology approaches." *Network Modeling Analysis in Health Informatics and Bioinformatics* 10, no. 1: 1-16. <https://doi.org/10.1007/s13721-020-00280-5>

Lam, Khang Nhut, Lam Thanh Truong, and **Jugal Kalita.** 2020. "Using Topic Models to Label Documents for Classification." In *Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications. FDSE 2020. Communications in Computer and Information Science*, edited by T.K. Dang, J. Küng, M. Takizawa, and T.M. Chung, vol 1306. Springer, Singapore. https://doi.org/10.1007/978-981-33-4370-2_32

Otter, Daniel W., Julian R. Medina, and **Jugal K. Kalita.** 2021. "A survey of the usages of deep learning for natural language processing." *IEEE Transactions on Neural Networks and Learning Systems*. <https://doi.org/10.1109/TNNLS.2020.2979670>

Pooja Sharma, Anuj K. Pandey, Dhruva K. Bhattacharyya, **Jugal K. Kalita,** and Subhash C. Dutta. 2021. "Discovering Biomarkers in Parkinson's Disease Using Module Correspondence and Pathway Information." In *Proceedings of the Sixth International Conference on Mathematics and Computing, Advances in Intelligent Systems and Computing*, edited by D. Giri, R. Buyya, S. Ponnusamy, D. De, A. Adamatzky, J.H. Abawajy, vol 1262. Springer, Singapore. https://doi.org/10.1007/978-981-15-8061-1_20

Klingner, Donald E. 2020. "Neutral Professionalism: Donald E. Klingner." *Public Integrity*: 1-5. <https://doi.org/10.1080/10999922.2020.1855920>

Klocko, Amy L. 2021. "Strategies to facilitate containment of genetically engineered crops." *CAB Reviews* 15, no. 055: 1-11. <http://dx.doi.org/10.1079/PAVSNNR202015055>

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- Lee, Joey A.**, Erin Heberlein, Emily Pyle, Thomas Caughlan, Darvi Rahaman, Margaret Sabin, and Jill L. Kaar. 2021. "Study protocol for a school-based single group pragmatic trial to promote resilience in youth: Building Resilience for Healthy Kids." *Contemporary Clinical Trials Communications*: 100721. <https://doi.org/10.1016/j.conctc.2021.100721>
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M

- Knoerzer, MacKinnly**, Gavin R. Hoffman, Hannah K. Maben, Andrew T. McGrath, Andrew D. Outlaw, **Brett Mayer**, and **Allen M. Schoffstall**. 2021. "Synthesis and NMR Characterization of a Dihydropyrazine, a Tetrahydroquinoxaline and a Tetrahydrooxadiazolopyrazine." In *NMR Spectroscopy in the Undergraduate Curriculum, Volume 4: In-Person and Distance Learning Approaches*, pp. 209-237. American Chemical Society. <https://doi.org/10.1021/bk-2021-1376.ch014>
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