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UNI Impact: Faculty/Staff Scholarly Publications and Featured Awards Newsletter, v1n1, 2022

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WELCOME

Welcome to the first edition of the *UNI Impact: Faculty/Staff Scholarly Publications & Featured Awards Newsletter!*


In celebration of scholarly accomplishments highlighted in the newsletter and the close of the academic year, we invite you to attend a campus reception on Wednesday, May 11, 2022 in the Rod Library's ScholarSpace, room 301, from 3:30 to 5:00 p.m. Brief remarks at 4:00 p.m. and light refreshments will be served.

The newsletter aims to highlight the wide range of scholarship, research, and other scholarly work produced by UNI faculty, students, and staff. The newsletter is a joint effort of the Rod Library and Research & Sponsored Programs and is focused on sharing current published scholarly works and recently funded external sponsored awards. In the future we hope to broaden the scope to better capture the variety of endeavors that take place at UNI. Our intent is to promote and support current scholarly efforts and facilitate collaboration across campus.

The newsletter will be distributed quarterly. This issue covers the period of October - December 2021. For more information about UNI faculty/staff publications see the [UNI Faculty Publications](#) collection in UNI ScholarWorks, UNI's institutional repository.

We encourage [feedback and suggestions](#) on how to communicate best and continue to support you.

OPEN ACCESS

An unlocked symbol  appears beside all available Open Access (OA) works. Peter Suber defines open access as work that “is digital, online, free of charge, and free of most copyright and licensing restrictions.” We call attention to OA work because it enables wider reach and potential impact. For the work to be designated below as available OA, the work must be either published in an OA journal; shared via a disciplinary OA repository; or deposited in [UNI ScholarWorks](#). If you have questions about how to openly share your work, please contact us at the following email address: scholarworks@uni.edu.

ARTICLES

The following faculty and staff published works covering the period of October - December 2021. The entries below are ordered according to the Scopus database publication date beginning with the most recently published. Congratulations to you all.

If we missed your publication/work, [please submit your information through the feedback form](#). We will make sure the publication is listed in a future newsletter issue.



Gute, Gary (School of Applied Human Sciences) “Optimal Experience in Adult Learning: Conception and Validation of the Flow in Education Scale (EduFlow-2)” in *Front Psychol* (12/30/2021) DOI: <https://doi.org/10.3389/fpsyg.2021.828027>

Kucuksari, Sadik (Department of Applied Engineering & Technical Management) “An Integrated Multi-Objective Optimization and Multi-criteria Decision-Making Model for Optimal Planning of Workplace Charging Stations” in *Applied Energy* (12/15/2021) DOI: <https://doi.org/10.1016/j.apenergy.2021.117866>

Revuru, Rukmini Srikant (Department of Applied Engineering & Technical Management) “Sustainability Analysis of Machining Inconel 718 Using Graphene-Based Nanofluids and Self-Lubricating Tools” in *Smart and Sustainable Manufacturing Systems* (12/02/2021) DOI: <https://doi.org/10.1520/SSMS20200036>

Lee, Min Ho (Department of Mathematics) “Heat Operators on Modular and Quasimodular Polynomials” in *Functiones et Approximatio, Commentarii Mathematici* (12/01/2021) DOI: <https://doi.org/10.7169/FACM/1978>

Berg, Samuel W. and Tamplin, Jeffrey W. (Department of Biology) “Home Range, Site Fidelity, and Movement Patterns of the Wood Turtle (*Glyptemys insculpta*) at the Southwestern Edge of Its Range” in *Chelonian Conservation and Biology* (12/01/2021) DOI: <https://doi.org/10.2744/CCB-1463.1>



Luiken, Jon M. and Berendzen, Peter B. (Department of Biology) “Comparative Riverscape Genomics of the Rainbow Darter (*Etheostoma caeruleum*) in Glaciated and Unglaciated Environments” in *Ecology and Evolution* (12/01/ 2021) DOI: <https://doi.org/10.1002/ece3.8422>



Czarnetzki, Alan C. (Department of Earth & Environmental Sciences) “Overview of the Lake Michigan Ozone Study 2017” in *Bulletin of the American Meteorological Society* (12/01/2021) DOI: <https://doi.org/10.1175/BAMS-D-20-0061.1>

McNamara, Scott W.T. and Townsley, Matt (College of Education) “School Administrators’ Intentions to Promote Adapted Physical Education” in *NASSP Bulletin* (12/01/2021) DOI: <https://doi.org/10.1177/01926365211045459>

Tabei, S. M. Ali (Department of Physics) “A Basic Model for Cell Cholesterol Homeostasis” in *Traffic* (12/01/2021) DOI: <https://doi.org/10.1111/tra.12816>

Stuelke, Lukas; Shand Paul M.; and Lukashev, Pavel V. (Department of Physics) “First Principles Study of Perpendicular Magnetic Anisotropy in Thin-Film Co₂MnSi” in *Physica Scripta* (12/01/2021) DOI: <https://doi.org/10.1088/1402-4896/ac2544>

Kidd, T. E.; Lukashev, P. V.; Stuelke, L.; Gorgen, C.; Roberts, S.; and Stollenwerk, A. J. (Department of Physics) “Diffusion Energy Barrier of Au on Bi₂Se₃: Theory and Experiment” in *Physica Scripta* (12/01/2021) DOI: <https://doi.org/10.1088/1402-4896/ac2681>



Abebe, Tilahun (Department of Biology) “Correction to: Self-reported Race/Ethnicity in the Age of Genomic Research: Its Potential Impact on Understanding Health Disparities (Human Genomics, (2015), 9, 1, (1), 10.1186/s40246-014-0023-x)” in *Human Genomics* (12/01/2021) DOI: <https://doi.org/10.1186/s40246-021-00322-7>



Tabei. S. M.Ali (Department of Physics) “Distinguishing Synaptic Vesicle Precursor Navigation of Microtubule Ends with a Single Rate Constant Model” in *Scientific Reports* (12/01/2021) DOI: <https://doi.org/10.1038/s41598-021-82836-7>

Endres, Kyle (Department of Political Science) “Elite Messaging and Partisan Consumerism: An Evaluation of President Trump’s Tweets and Polarization of Corporate Brand Images” in *Political Research Quarterly* (12/01/2021) DOI: <https://doi.org/10.1177/1065912920939188>

Onken, Steven J. and **O'Brien, Catherine "Katie"** (Department of Social Work) "Navigating Minority and Majority Cultures in Emerging Adulthood: A Pilot Study of Young Hearing Adults of Deaf Parents and Young Heterosexual Adults of Lesbian/Gay Parents" in *Emerging Adulthood* (12/01/2021) DOI: <https://doi.org/10.1177/2167696819877350>



Anderson, John (Department of Management) "Analyzing the Reliability of Chinese Outward FDI Studies: A Replication Approach" in *Critical Perspectives on International Business* (11/23/2021) DOI: <https://doi.org/10.1108/cpoib-11-2019-0088>

Waldron, Jennifer (Department of Kinesiology) "Queer Athlete, Non-biological Mothers: Competing, Marginalized, Identities" in *Journal of Homosexuality* (11/22/2021) DOI: <https://doi.org/10.1080/00918369.2021.1999120>



Kang, Julie (Department of Biology) "Leaf Form Diversification in an Ornamental Heirloom Tomato Results from Alterations in Two Different HOMEBOX Genes" in *Current Biology* (11/08/2021) DOI: <https://doi.org/10.1016/j.cub.2021.08.023>



Petrov, Andrey N. (Department of Geography) "Informal Road Networks and Sustainability of Siberian Boreal Forest Landscapes: Case Study of the Verzhina Khandy Taiga" in *Environmental Research Letters* (11/01/2021) DOI: <https://doi.org/10.1088/1748-9326/ac22bd>



Rozanova-Smith, Marya (ARCTIC Center) "Stay or Leave? Arctic Youth Prospects and Sustainable Futures of the Russian Arctic Communities" in *Sustainability (Switzerland)* (11/01/2021) DOI: <https://doi.org/10.3390/su132112058>



Khortseva, Natalia and **Petrov, Andrey N.** (Department of Geography) "Municipal Programs and Sustainable Development in Russian Northern Cities: Case Studies of Murmansk and Magadan" in *Sustainability (Switzerland)* (11/01/2021) DOI: <https://doi.org/10.3390/su132112140>

Khudadad, Nahida (Center for Social and Behavioral Research) "School Built Environment, Gender, and Student Achievement in Pakistan" in *International Journal of Educational Development* (11/01/2021) DOI: <https://doi.org/10.1016/j.ijedudev.2021.102503>

Williams, Dionna and **Zeman, Catherine** (Department of Health, Recreation, & Community Services) "Case Study Evaluation: PIEER Internship Program and Its Impact on Interns' Self-Reported Attitudes and Behaviors Regarding Environmental

Health Equity” in *International Journal of Sustainability in Higher Education* (11/01/2021) DOI: <https://doi.org/10.1108/IJSHE-09-2020-0341>

Ramker, Adam; Shand, Paul M.; and Lukashev, Pavel V. (Department of Physics) “Electronic, Structural and Magnetic Properties of $Mn_{(1+x)}Pt_{(1-x)}Sb$ ” in *Journal of Magnetism and Magnetic Materials* (11/01/2021) DOI: <https://doi.org/10.1016/j.jmmm.2021.168234>

Rosburg, Alicia (Department of Economics) “Sustainable Development in the Craft Brewing Industry: A Case Study of Iowa Brewers” in *Business Strategy and the Environment* (11/01/2021) DOI: <https://doi.org/10.1002/bse.2782>

Lefler, Elizabeth K. (Department of Psychology) “College Readiness: Differences Between First-Year Undergraduates With and Without ADHD” in *Journal of Learning Disabilities* (11/01/2021) DOI: <https://doi.org/10.1177/0022219420972693>

Cheng, Jiuqing (Department of Psychology) “The Effect of Anger on Variety Seeking for Consumers of Differing Socio-economic Backgrounds” in *Current Psychology* (11/01/2021) DOI: <https://doi.org/10.1007/s12144-019-00476-7>

McNamara, Scott (Department of Kinesiology) “Online Training for Physical Activity Practitioners on Evidence-Based Practices for Clients with Autism” in *Advances in Autism* (10/26/2021) DOI: <https://doi.org/10.1108/AIA-04-2020-0026>

Chen, Zhongdong (Department of Finance) “Investor Attention and Market Correction” in *Review of Behavioral Finance* (10/15/2021) DOI: <https://doi.org/10.1108/RBF-02-2020-0042>



Peters, Justin P. (Department of Chemistry & Biochemistry). “Designed Architectural Proteins that Tune DNA Looping in Bacteria” in *Nucleic Acids Research* (10/11/2021) DOI: <https://doi.org/10.1093/nar/gkab759>

Bonde, Nina J.; McClendon, Nia N.; and Chin, Robert M. (Department of Chemistry & Biochemistry) “Reactivity of Methyl Diruthenium Complexes with CO and Bipyridine Ligands” in *Organometallics* (10/11/2021) DOI: <https://doi.org/10.1021/acs.organomet.1c00445>



Petrov, Andrey N. (Department of Geography) “The Russian Arctic by 2050: Developing Integrated Scenarios” in *Arctic* (10/05/2021) DOI: <https://doi.org/10.14430/arctic73242>

Ruxton, Megan (Center for Social and Behavioral Research) “Trust Issues: US Public Preferences for Entities to Protect the Environment” in *Sustainability and Climate Change* (10/01/2021) DOI: <https://doi.org/10.1089/scc.2021.0039>



Petrov, Andrey (Department of Geography) “Gender Equality for a Thriving, Sustainable Arctic” in *Sustainability (Switzerland)* (10/01/2021) DOI:

<https://doi.org/10.3390/su131910825>



Miller, Jillian and Peters, Justin P. (Department of Chemistry & Biochemistry) “Examining the Effects of Netropsin on the Curvature of DNA A-Tracts Using Electrophoresis” in *Molecules* (10/01/2021) DOI:

<https://doi.org/10.3390/molecules26195871>

Stollenwerk, Andrew J.; Stuelke, Lukas; Kidd, Timothy E.; and Lukashev, Pavel V. “First Principles Study of Nearly Strain-Free Ni/WSe₂ and Ni/MoS₂ Interfaces” in *Journal of Physics Condensed Matter* (10/01/2021) DOI: <https://doi.org/10.1088/1361-648X/ac1881>

Townsley, Matt; Waldron, Jennifer; Alborn-Yilek, Susan; Schares, Denise; Huckstadt, Kim; and Gute, Deanne (College of Education) “School Administrators’ Experiences in a 6-Month Health and Wellness Community of Practice” in *Journal of School Health* (10/01/2021) DOI: <https://doi.org/10.1111/josh.13073>

Ergül, Hilal (Department of Languages & Literatures) “Mitigating Oral Corrective Feedback Through Linguistic Strategies and Smiling” in *Journal of Pragmatics* (10/01/2021) DOI: <https://doi.org/10.1016/j.pragma.2021.07.018>

Flugum, Ryan (Department of Finance) “Distracted Institutions, Information Asymmetry and Stock Price Stability” in *Journal of Business Finance and Accounting* (10/01/2021) DOI: <https://doi.org/10.1111/jbfa.12555>

Lee, W. Eric (Department of Accounting) “From *Enfant Terrible* to *Problem-Solver*? Tracing the Competing Discourse to Explain Blockchain-Related Technological Diffusion” in *Telematics and Informatics* (10/01/2021) DOI: <https://doi.org/10.1016/j.tele.2021.101662>

FEATURED AWARDS

The following faculty and staff were recipients of externally funded scholarly sponsored awards and contracts during the period of October – December 2021, congratulations!

If we missed your award, [please submit your information through the feedback form](#). We will make sure the award is listed in a future newsletter issue.

Principal Investigator: Jeffrey Tamplin

Sponsor: Iowa Department of Natural Resources (lead sponsor is US Fish and Wildlife Service)

Title: *Upper Midwest Turtle Conservation – Phase 3*

Award Funding: \$161,338

Dr. Jeffrey Tamplin will assess the effectiveness of conservation efforts by monitoring short- and long-term response to conservation actions by using telemetry to follow up to ten turtles and also conduct wood turtle surveys in priority rivers and tributaries in northern Iowa and southeast Minnesota.

Principal Investigator: Tim Kidd

Sponsor: Iowa State University (lead sponsor is NASA)

Title: *Development of nanocellulose materials for structural and radiation shielding applications*

Award Funding: \$85,411

Dr. Tim Kidd in collaboration with ISU will use seed grant funding to investigate the utility of nanocellulose and nanocellulose composite materials, with a focus on their use for structural materials and radiation shielding.

Principal Investigator: Paul Kinghorn

Sponsor: Iowa Economic Development Authority

Title: *Advance Iowa Employee Owned Cooperatives*

Award Funding: \$100,000

The Advance Iowa Employee-Owned Cooperatives pilot project will focus on serving small and medium sized businesses in Iowa, including targeting firms in rural communities, to help build awareness, education campaigns, and other activities to help determine which will be best served by transitioning to an employee-owned business cooperative.

Principal Investigator: Heather Hamilton

Sponsor: Iowa Department of Cultural Affairs (lead sponsor is the National Endowment for the Arts)

Title: *Reinvigorating the UNI Community Music School*

Award Funding: \$10,000

The grant funding is made available by the American Rescue Plan Act of 2021 as a subaward under the Provisional State Partnership Agreement 1863348-61-20 issued by the National Endowment for the Humanities to the Iowa Department of Cultural Affairs on June 21, 2021 and will support the UNI Community Music School.

Principal Investigator: Jodie Huegerich

Sponsor: Iowa Department of Agriculture and Land Stewardship (lead sponsor is the US Department of Agriculture)

Title: *Expanding Grow.Eat.Play Awareness Campaign for Cedar Valley Regional Food and Farm Network and North Iowa Specialty Crop Farmers*

Award Funding: \$23,812

The project will focus on increasing demand for and consumption of specialty crop products and promote local farmers by expanding on the Grow.Eat.Play campaign created by Healthy Harvest of North Iowa. This project was supported by the U.S. Department of Agriculture's (USDA) Agricultural Marketing Service through grant 21SCBPIA1013. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the USDA.

Principal Investigator: Cheryl Dong

Sponsor: Iowa Department of Cultural Affairs (lead sponsor is the National Endowment for the Arts)

Title: *Sharing Iowa History in the Age of Covid: Creating Iowa's Online Encyclopedia*

Award Funding: \$15,000

The grant funding is made available by the American Rescue Plan Act of 2021 as a subaward under the Provisional State Partnership Agreement ZSO-283179-21 issued by the National Endowment for the Humanities to the Iowa Department of Cultural Affairs on June 11, 2021 and will support the Department of History's work on the EncyclopedIA project, which is a digital encyclopedia designed to meet the education needs of K-12 teachers and the general public in teaching Iowa History. The project funds will be used to create the EncyclopedIA website, curate entries from humanities experts, and programming to address Covid-19 on Iowans.

Principal Investigator: Steven Carignan

Sponsor: Iowa Department of Cultural Affairs

Title: *COVID Marketing Support*

Award Funding: \$10,000

This grant is funded by the Coronavirus Relief Fund created by the Coronavirus Aid, Relief, and Economic Security Act (CARES Act) and the funding was directed to the Iowa Department of Cultural Affairs by Governor Kim Reynolds. The funding will be used to promote the Spring Season at Gallagher Bluedorn PAC.



Editors

- Maggie Heretakis, Preaward Specialist, Research & Sponsored Programs, University of Northern Iowa
- Ellen Neuhaus, Digital Scholarship Librarian, Rod Library, University of Northern Iowa

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