



Rock Research Expo 2019

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WELCOME

Aim

The aim of the Rock Research Expo (RRE) is to serve as a newsletter that keeps our campus informed of the scholarly endeavors and potential research opportunities for both faculty members and students.

Specifically, RRE:

- Shares new knowledge of different disciplines on campus
- Provokes students' interests and curiosity in knowledge exploration
- Promotes long term academic communication and collaboration on campus, and most importantly
- Develops a success-driven environment of learning for faculty members and students

The Scope of RRE includes:

- Recent publications of faculty members and students (title, authors, and optional abstract)
- Recent research projects and grant acquisitions (title, authors, brief description)
- Recent conference presentations, performances, and exhibitions of faculty members and students
- Announcements of research related activities

The Policies of RRE are:

- Anyone can submit his or her information via email. Student submissions need to have a supporting letter or email from a faculty member
- The basic submission standards for the newsletter will be that the submitted material be legible, pertinent, and appropriate to present to the campus community
- Authors are responsible for the accuracy of their submissions. Newsletter editors and SRU will NOT be responsible for the verification of the submitted information

Contact Information:

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Faculty at SRU are teacher-scholars. Their primary focus is on teaching, reflected in significant time in the classroom and related activities outside class such as advising and co-curricular



high-impact practices. However, continued scholarly growth is an important secondary pursuit. Depending on the discipline, scholarship may be research or creative activity. It may involve discovery, integration (syntheses, perhaps across disciplines), engagement (the application of disciplinary expertise in service to communities), or the analysis of teaching and learning processes.

Teacher-scholars link their teaching and their scholarship. They may include their discoveries in the content of their courses. They may teach students about the richness of an integrated approach to analyzing phenomena. They may show students how real-world issues can be tackled through insights from quantitative and qualitative data. They may modify their teaching based on pedagogical research in order to enhance learning.

Teacher-scholars enrich the education our students receive, in some cases providing illustrations of the research and creative enterprise. They may teach students about the research or creative process, and how they have gone about their craft. At a more engaged level, students act as apprentices, learning by doing on joint projects with professors. The ultimate experience is for students to conduct independent research or creative activity. Thereby, students learn to explore previous work, think critically about it, provide creative alternatives, and disseminate findings.

The Rock Research Expo (RRE) celebrates a selection of the impressive research and creative accomplishments of our teacher-scholar faculty members. Also featured are examples of the work generated through collaboration with students. Publications, presentations, performances

and exhibitions to colleagues at SRU and to external audiences are all included.

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Provost and Vice President for Academic and Student Affairs

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FEATURE STORY

SRU in China



Project Title: The Development and Benchmarking of Contemporary Sustainability Indicators for Rural Ethnic Chinese Villages: A Case Study of the Social, Economic, and Ecological Issues of Two Gelao Villages Near Chongqing Municipality

Faculty Mentors:

Dr. John Golden, School of Business,
Dr. Li Pu, Department of Communication

Student Members:

Aisha Aldubayan,
Thomas Fabian,
Marlee Theil,
Marshall Tuten

This research project and travel were funded through a \$29,100.00 research grant from the Freeman Foundation's AsiaNetwork Student-Faculty Fellows Program.

Rural poverty is still a persistent and severe problem in many Asian countries. The reality of poverty goes beyond low income, lack of infrastructure, and limited access to resources in that it also reveals issues of equity and inclusion, especially in the marginalized communities.

Since Asia is home to 60% of world's current population with 47% of Asians living in rural areas, the question of how to develop a sustainable approach to alleviate poverty is crucial to the region (United Nations, 2014). As the largest developing country of the world, China is committed to ending rural poverty by 2020 (Hsu, 2017). Therefore, China presents an intriguing case of how to achieve sustainable rural development while empowering the local community to promote social justice and maintain cultural identity.

Combining interview, survey questionnaire and document analysis methods, this Slippery Rock University research team with two faculty members and four students developed and benchmarked specific sustainability indicators and metrics that evaluate the carrying capacity of the environmental, economic, human, and aesthetic capital of Gelao ethnic villages near Southwest China, Chongqing Municipality. Specifically, this SRU team explored available established indicators that are drawn from the local data, such as poverty, wages, profits, air quality, water quality, crime statistics, etc. The team is now working to develop "sustainability indicators" that are relevant and reliable for the local communities. The team's field experiences were also recorded with professional video, audio and lighting equipment, resulting in a student-produced short film.

The participating SRU students were exposed to multiculturalism and multi-ethnicity by diverse interactions with local populations. The team spent approximately three weeks in China, including time in the villages where the members of the team immersed into ethnic Gelao and Miao cultures. These SRU students worked to develop field research skills through direct interactions with the Chinese collaborators, ranging from government officials at the local Rural Poverty Reduction Office, Chinese students and professors in local universities, and indigenous villagers. Before the field research, the team obtained IRB approval on interview questions and survey questionnaires at Slippery Rock University. To the team's knowledge, this was first human research conducted in China by Slippery Rock University.



Besides providing students with valuable skills in cross-cultural communication and teamwork, these SRU students have developed marketable skillsets for their future careers through this project. The team's final products include academic presentations, a manuscript to be published at a peer-reviewed journal, a blog, and a short film to be exhibited at regional film festivals. The completion of these products requires mastery of a variety of tangible technical skills in data collection, analyzing and visualization, video editing, and web publishing. The team will also share its research with local communities in China to help them identify major factors affecting sustainable rural development. All the presentations, publications and exhibitions are fundamental for building students' senior digital portfolios, graduate school application packages, professional resume reels, and for futures in international business or NGO careers.

Reference:

Hsu, S. (2017, August 19). Can China wipe out poverty by 2020? Forbes. Retrieved from <https://www.forbes.com/sites/sarahsu/2016/08/19/china-wipe-out-poverty/#643f0e1f7d7a>

United Nations (2014, July 10). World's population increasingly urban with more than half living in urban areas. Retrieved from <http://www.un.org/en/development/desa/news/population/world-urbanization-prospects-2014.html>

RECENT PUBLICATIONS

Anderson, M. and Galbraith, D. (School of Business) (2017) "Mylan's Epi-cal Breach at the Top," *Journal of Business Cases and Application*, 18, 1-11.

Bicehouse, V., and Mild, T. (Department of Special Education) (2019) Embroidering a Blueprint for Generation Z Pre-Service Teachers in Today's Job Hunt. *American Association for Employment in Education*, 2020 yearly publication.

Brungard, A. B. (Department of Library) (2018) Book review of Tara Westover's *Educated: A Memoir*, *Phi Kappa Phi Forum*.

Brungard, A. B. and Bartek, J. (Department of Library) (2019) "Chapter 6. Adding More Green for a Healthier Library: Modeling Sustainability Practices." In *The Sustainable Library's Cookbook*, edited by Raymond Pun and Gary L. Shaffer, Chicago: ALA Neal-Schuman.

Brungard, A. B. (Department of Library) and Klucsevsek, K. (Duquesne University) (2018) "Chapter 4. Constructing Scientific Literacy through Metaliteracy: Implications for Learning in a Post-Truth World," in *Metaliterate Learning for a Post-Truth World*, edited by Thomas P. Mackey and Trudi E. Jacobson, Chicago: ALA Neal-Schuman.

Cannizzaro, R.T., Jones, K.E., **Holmstrup, M.E., Verba, S.D., Lynn, J.S. (Department of Exercise and Rehabilitative Sciences)** (2018) "Marked differences in measurement between two interpretations of the suprailiac skinfold site," *Keystone Journal of Undergraduate Research*. 5(1), 12-18.

Abstract: This study examined potential error associated with the measurement of the suprailiac skinfold site at two commonly interpreted locations within ACSM guidelines. Forty-six, young, apparently healthy (20.9 ± 1.2 y; 24.3 ± 4.7 kg/m²) college-aged students were recruited. Three skinfold measures were taken at each of three distinct anatomical sites using standard collection methods by a criterion anthropometrist. One trial (SUPRA1) of three measures was taken at a site inferior to the anterior axillary line observed from the sagittal

plane. A second trial (SUPRA2) was taken at a site visually identified as the anterior axillary line from the frontal plane. A reference trial (SUPRA3) was taken at a site marked by hanging a plumb bob at the anterior axillary line. A repeated-measures analysis of variance test was conducted to compare differences in measured skinfold thickness between sites, using a Bonferroni adjustment. An a-priori α -significance level was set at 0.05. A greater average distance was measured between SUPRA1 and SUPRA3 compared to SUPRA2 and SUPRA3 (6.7 ± 1.5 v. 1.3 ± 0.9 cm, respectively). Significant differences in measured skinfold thickness were recorded between SUPRA1 and SUPRA3 (-11.8 mm; $p < 0.05$), and SUPRA 2 and SUPRA3 (3.1 mm; $p < 0.05$). Future studies should assess the impact of these differences on total body fat estimation. Site identification may have a marked effect on the measurement of the suprailiac skinfold site.

Dicus, J.R., Holmstrup, M.E. (Department of Exercise and Rehabilitative Sciences), Shuler, K.T., Rice, T.T., Raybuck, S.D., and Siddons, C.A. (2018) "Stability of resistance training implement alters EMG activity during the overhead press," *International Journal of Exercise Science*. 11(1), 708-716.

Abstract: Kettlebells often replace dumbbells during common resistance training exercises such as the overhead press. When performing an overhead press, the center of mass of a dumbbell is in line with the glenohumeral joint. In comparison, the center of mass of the kettlebell is posterior to the glenohumeral joint. Posterior displacement of the kettlebell center of mass may result in less stability during the pressing motion. The purpose of this study was to examine muscle activity during an overhead press with resistance training implements of differing stability. Surface electromyography (EMG) for the anterior deltoid and pectoralis major was analyzed for 21 subjects. Technique and pace of the overhead press were standardized and monitored. Filtered EMG data were collected, and a root mean square was calculated for each repetition. A repeated-measures analysis of variance was used to compare average root mean square values for the anterior deltoid and pectoralis major across implements. A

statistically significant increase in average root mean square (0.000388 ± 0.000185 v. 0.000423 ± 0.000187 V; $p = 0.003$) was identified in the anterior deltoid when using dumbbell compared to kettlebell. In this study, EMG activity was augmented in the anterior deltoid when using the more stable implement, the dumbbell.

DiMarco, D. (Department of English) (2019) book chapter "Transforming the White Whale in Monique Roffey's *Archipelago*," in the edited collection *The Sea in the Literary Imagination* (Eds. Ben P. Robertson, et. al.), Cambridge Scholars Press, January.

Eisenreich, C. (Department of Music) and Juntunen, Marja-Leena (2019) "Assessment in Dalcroze Pedagogy," *The Oxford Handbook of Assessment Policy and Practice in Music Education*, Volume 2.

Fleming, B., Zeltner, M. (Department of Communication), and Nespor, C. (2018) "Using the modified potter box to analyze the 'Trump effect' on student media," *College Media Review*, 55.
(<http://cmreview.org/4691-2/>)

Forrest, J.Y. (School of Business) (2018) *General Systems Theory: Foundation, Intuition and Applications in Business Decision Making*, by Springer-Nature. This book consists of three parts, entitled *The Foundation*, *The Systemic Intuition*, and *Applications in Business Decision Making*, respectively.

The first part studies general properties of systems. The second part introduces the systemic yoyo model to satisfy the desperate need for a practically useful intuition for reasoning in systems-science specific contents. The role to be played by this model is expected to be similar to that played by Cartesian coordinate system in the classical science, on top of which all statistical and analytical methods, widely and heavily employed in modern science, are developed. The third part looks at how systemic thinking and the yoyo model can be beautifully applied to address many important problems facing decision makers in business by organically combining methods of the classical science, the first dimension of the 2-dimensional science, with those of

systems science, the second dimension, as argued by George Klir in the 1990s. As of the publication of this book, important decisions in business are mostly drawn based on data mining or anecdotes. Scientifically speaking, such processes of decision making have been time and again shown to be flawed. Because of this reason, this part of the book is expected to open up a brand new territory of research valuable for working managers and economics professionals.

By presenting a rigorously developed foundation, a tool for intuitive reasoning that is supported by both theory and empirical evidence, and extremely fruitful applications this book demonstrates the theoretical value and practical significance of systems science and its thinking logic. By making use of this science and by employing the systemic intuition, one can produce interesting, convincing, and scientifically sound results. As shown in this book, many of the conclusions drawn on the basis of systems science can be practically applied to produce tangible economic benefits. This book aims at graduate students, researchers, and practitioners in the areas of mathematics, either theoretical or applied, systems science and/or engineering, economics and decision science.

Galbraith, D. and Mondal, S. (School of Business)

- (2017) "The MBA Factor: A Study of Progression," *Archives of Business Research*, 5(2), 135-146.
- (2018) "The Road to Graduation: On-line or Classroom," *Research in Higher Education Journal*, 35, 1-12.

Hadley, S. (Department of Music) (2018)

- "Teaching Whiteness in Predominantly White Classrooms," in S. Brookfield (Ed.) *Teaching Race*. Jossey-Bass/Wiley.
- "Susan Hadley" in J. Mahoney (Ed) *The Lives of Prominent Music Therapists* (New Braunfels, TX: Barcelona Publishers).

Hadley, S. (Department of Music) and Thomas, N. (2018) "Critical Humanism in Music Therapy: Imagining the Possibilities," *Music Therapy Perspectives*, 36(2),

168-174.

Holmstrup, M.E. (Department of Exercise and Rehabilitative Sciences), Kelley, M.A., Calhoun, K.R., Kiess, C.L. (2018) "Fat-Free Mass and the Balance Error Scoring System Predict an Appropriate Maximal Load in the Unilateral Farmer's Walk," *Sports*. 6(4), 166-175.

Abstract: This study quantified and compared unilateral farmer's walk (UFW) performance in recreationally active males and females, and determined if additional variables allowed for the prediction of a maximal safe load. Anthropometric (height, body weight (BW), body mass index, body fat percentage, fat-free mass (FFM), and fat mass), muscular endurance (maximal duration side bridge), and balance (Balance Error Scoring System (BESS)) tests were completed. Participants performed a series of 20 s UFW trials (non-dominant side) at a cadence of 66 beats/min. The initial load was 10% of BW and increased by 10% per trial until deviations in spinal alignment or compromised gait patterns were noted, and the series was terminated. The highest load carried before technical failure was recorded. Descriptive and comparative statistics and a stepwise linear regression analysis were utilized to determine relationships between UFW performance and anthropometric, muscular endurance, and balance tests. Males ($N = 25$) were significantly taller (177.3 ± 6.7 vs. 164.7 ± 7.2 cm, $p < 0.05$), heavier (81.7 ± 7.0 vs. 62.0 ± 9.4 kg, $p < 0.05$), and leaner (14.4 ± 4.4 vs. $22.4 \pm 4.8\%$, $p < 0.05$) than females ($N = 26$). Further, males had a higher amount of FFM ($p < 0.05$) than females. The males (52.2 ± 9.0 , 64% BW) carried a higher average UFW load than the females (32.5 ± 7.1 kg, 53% BW, $p < 0.05$). FFM was strongly predictive of UFW load (load = $-9.88876 + 0.88679 \times$ (FFM); $r^2 = 0.774$, $p < 0.0001$). The addition of the BESS test further increased the accuracy of the prediction equation ($r^2 = 0.800$, $p < 0.0001$). There are differences in UFW performance ability between males and females. As our method does not account for all potential confounding variables, the use of these equations should be combined with technique analysis and participant feedback to ensure an appropriate workload.

Jenny, S. E. (Department of Public Health and Social Work), Noble, K. M., Schary, D. P., and Hamill, S. D. (2018) "Virtual and authentic tennis: Differences and similarities of three common tennis strokes performed by collegiate players," *FACTA UNIVERSITATIS Series: Physical Education and Sport*, 16(3), 525-541. doi: 10.22190/FUPES181218048 .

Jirasakuldech, Benjamas (School of Business) and Riza Emekter (2018) "A Multi-Country Analysis of Cyclical Asymmetry in Unemployment Rates," *Pennsylvania Economics Review*, 25(2), 13-30.

Abstract: Economists have long suggested that business cycle tends to exhibit non-linear asymmetry where the expansion appears to be more prolonged, persistent, with less volatility than the contraction periods. The purpose of this research is to examine whether unemployment rates in 56 countries exhibit a non-linear asymmetric cyclical behavior with a sharp increase during contractions, but gradual declines during expansions. Change in unemployment rates is modeled as a two-state second-order Markov Chain test, a technique developed by Neftci (1984). The results show that eight out of fifty-six countries exhibit a symmetric pattern in unemployment rates. These eight countries are Belarus, Brazil, Ecuador, Greece, Japan, Kazakhstan, Morocco, and Norway. The behavior of unemployment rates in these countries does not change based on different stages in the business cycle. Of the remaining countries that show evidence of asymmetric behavior pattern, only 18 countries exhibit a pattern that is consistent with a sharp increase during economic contractions but a slow decline during economic expansions. These countries are Chile, China, Denmark, Finland, Germany, Hong Kong, Indonesia, Italy, Latvia, Macao, Peru, Poland, Russia, Slovakia, South Africa, Spain, Switzerland, and Thailand. The asymmetric properties revealed will provide insights for regional economists and policy makers for theoretical modeling of labor markets as well as guidance for designing appropriate forecasting models for each country's unemployment.

Joo, B.-K. (School of Business) and Bennett, R. H. (2018) "The influence of proactivity on creative behavior,

organizational commitment, and job performance: Evidence from a Korean multinational firm," *The Journal of International and Interdisciplinary Business Research*, 5(2), 1-20.

Joo, B.-K. (School of Business), Byun, S., Jang, S., and Lee, I. (2018) "Servant leadership, commitment, and participatory behaviors in Korean Catholic church," *Journal of Management, Spirituality, and Religion*, 15(4), 325-348.

Jordan, D.W. and Nicholls, J. (School of Business) (2018) "Factors Associated With Health Savings Account Funding," *Pennsylvania Economic Review*, 25(2), 1-12.

Keener, E. (Department of Psychology), Strough, J., & DiDonato, L. (2018) "Adolescents' endorsement of communal and agentic conflict-management strategies with friends and romantic partners," *Sex Roles*. Advance online publication.

Liu, Y., Zhu, X., **Wei, X. (Department of Physics and Engineering)**, Zhang, S., Chen, J., and Ren, Z.J. (2018) "CO₂ Activation Promotes Available Carbonate and Phosphorus of Antibiotic Mycelial Fermentation Residue-Derived Biochar Support for Increased Lead Immobilization," *Chemical Engineering Journal*, 334, 1101-1107.

Murphy, S. E., and **Jenny, S. E. (Department of Public Health and Social Work)** (2018) "A year-round individualized resistance training program for collegiate track and field event groups," *Track Coach*, 225, 7179-7186.

Roth, J. J. (Department of Criminology and Criminal Justice) (2019) "Empty homes and property crime: Does vacancy type matter?" Revised and resubmitted to *American Journal of Criminal Justice*, advance online publication. DOI 10.1007/s12103-019-9469-7

Abstract: Research suggests that vacant homes are associated with a variety of negative outcomes for communities, including higher rates of some crimes. A few studies in this vein have examined the effects of

particular types of vacancy, such as abandoned homes, empty occupiable residences, seasonal housing, undeveloped lots. However, these works have focused on a single state or urban area. The present study sought to advance the understanding of vacancy's relationship to acquisitive crime (burglary, robbery, and larceny) by including several vacancy rates (homeowner, rental, seasonal, and overall) as distinct predictors and by using a sample of large cities from across the United States. The analysis also controlled for social, demographic, and economic factors relevant to crime and vacancy. Results from negative binomial regression models indicated that the relationship between empty residences and crime varied depending upon the particular form of vacancy and upon the type of criminal offense.

Roth, J. J. (Department of Criminology and Criminal Justice) and King, L. L. (2019) "Sex-based predictors of male and female property crime arrest rates: Disadvantage and drug use," *Women and Criminal Justice*, advance online publication. DOI 10.1080/08974454.2018.1502724

Abstract: A large body of research has considered the relationship between crime and structural indicators. However, despite trends in the gender gap in offending, fewer studies have separately examined the effects of structural variables on both male and female offending. The present study examined that question through a macro-level examination of property crime across large U.S. cities using data from the Uniform Crime Report and the American Community Survey. The predictors included theoretically supported indicators of disadvantage and drug accessibility/use that were disaggregated by sex. Although the findings indicated some similarities in predictors of male and female arrest rates, they highlighted some important differences as well.

Salas Camus, P. (Department of Modern Languages and Cultures) (2018) 2666: *en búsqueda de la totalidad perdida*. Publishing house: Editorial A Contracorriente, City: Raleigh, December.

Schary, D. P., **Jenny, S. E. (Department of Public Health and Social Work)**, Morrow, G. M., and Wozniak, T. M. (2018) "Bringing challenge course programs into

the classroom: Pedagogical strengths, obstacles, and recommendations," *Journal of Outdoor Recreation, Education, and Leadership*, 10(3). doi: 10.18666/JOREL-2018-V10-I3-8533.

Schiappa, T. A. and Smith, L. (Department of Geography, Geology and the Environment) (2018) "Field experiences in geosciences: A case study from a multidisciplinary geology and geography course," *Journal of Geoscience Education*, pg. 1-14 DOI: 10.1080/10899995.2018.1527618

Shoemaker, L. (Department of English) (2018) "Femme Finales: Gender, Violence, and Nation in Marlon James' Novels," *The Journal of West Indian Literature*, 26 (2), 18-33.

Abstract: Marlon James' three novels each end with the image of a woman, but not in the expected symbolism of futurity that women/wombs have come to serve as literary devices. Rather, James' "femme finales" problematize this elision, yet remain ambivalent about embodying politics of resistance. Mary Greenfield, Lovey Quinn, and Nina Burgess, in a variety of specific historical moments in Jamaica and its diaspora, navigate mundane gendered experiences that demonstrate ambivalence towards Jamaican nationalist projects, namely hegemonic gender ideology through respectable citizenship. That two of these women's narratives pre-date Jamaican sovereignty reinforces the notion that respectable citizenship and related gender ideology are rooted in colonial hierarchies. James' women characters challenge such discourses of gender and nation, yet they also reveal the limits of this resistance in economies shaped by race and desire.

Silvertro, J. (Department of English) (2019) "Reaching Backyards and Board Rooms: Strategies for Circulation that 'Change the Conversation'," *Reflections: A Journal of Community-Engaged Writing and Rhetoric*, 18(1), 102-131. Available at: <https://reflectionsjournal.net/?s=Silvestro>

Abstract: Through a case study of a community organization, The Women's Fund of the Greater

Cincinnati Foundation, I present a new framework for circulation strategies. The organization composed and distributed research reports on the gendered inequalities in their local economy, which they aimed to circulate locally. However, they encountered local publics that often resisted discourse on gender and gender-related issues. So, the organization developed a strategy focused not on circulating their work, but on challenging the discursive norms of their local publics that structured circulation and engendered the resistance. My case study reveals new ways to research and strategize circulation—aiming not to circulate texts or disrupt ongoing circulation but to challenge and/or make anew the norms that structure circulation.

Silvertro, J. (Department of English) (2019) "In the Loop: Articulating Our Entanglement in Others' Digital Ethos Positions," *Enculturation: A Journal of Rhetoric, Writing, and Culture*, 28.

Abstract: The article applies an ecological theory of digital ethos to a case study of underground-heavy-metal bloggers. In so doing, the article presents a new understanding of digital ethos, which I title rhetorical looping. Rhetorical looping is the understanding that when we use social-media and other online platforms, we gain the ability to influence others' digital credibility. Through our comments, likes, shares, and lurking, we influence the norms and values that provide the rhetorical value of one's credibility. We also influence what texts and information constitute one's ethos. Rhetorical looping exposes this concept while also providing an ethical framework for performing this work. This framework draws attention to the ways we should act ethically when influencing others' credibility and how we should carefully select the elements of digital platforms we decide to use when shaping others' digital ethos.

Tours, S. (Department of Elementary/Early Childhood Education) and Simsar A. (2018) "Is Reggio Emilia, Italy truly special?" *DergiPark Akademik*, 1(1).

Valencia, J.M. (School of Business)

- (2018) "Identifying Involuntary College Dropouts: A Survival Analysis Case Study," *The Pennsylvania Economics Review*, 25(2), 91–110.
- (2016) "Measuring Intercultural Competence – An Exploratory Factor Analysis Case Study," *The Pennsylvania Economics Review*, 23(2017), 2, Fall 2016, 101 – 120.

Wei, X. (Department of Physics and Engineering),

Zhang, S., Sun, Y., and Brenner, S.A. (2018) "Petrochemical Wastewater and Produced Water," *Water Environment Research*, 90(10), 1634-1647.

Wei, X. (Department of Physics and Engineering),

Zhang, S., Han, Y., and Wolfe, F.A. (2018) "Characterization and Treatment of Mine Drainage," *Water Environment Research*, 90(10), 1899-1922.

Willford, J. A. (Department of Psychology), Gallen, R., and **Crist, M. (student)** (2018). High impact learning in infant mental health through global engagement. *Zero to Three*, 38(4), 65-66.

Willford, J. A. (Department of Psychology),

Singhabahu, D., Herat, A., & Richardson, G. A. (2018). An examination of the association between prenatal cocaine exposure and brain activation measures of arousal and attention in young adults: An fMRI study using the Attention Network Task. *Neurotoxicology and teratology*, 69, 1-10.

Xu, F., Liu, W (Department of Physical and Health Education),

Chepyator-Thomson, J. R., and Schmidlein, R. (2018) "Relations of physical activity and stress vulnerability in university students," *College Student Journal*, 52(1), 62-73.

Zhao, H., Forrest, J. Y., and Jirasakuldech, B. (School of Business) (2018) "A Game Analysis of Trade Dumping and Antidumping," *Theoretical Economics Letters*, 8, 2860-2881.

Abstract: This paper develops game theoretical models to study the interactive, competitive plays and relevant

decision making regarding the dumping and antidumping actions between an importing nation and an exporting nation. The latter considers potentially dumping its product in the domestic market of the former, while the former attempts to protect its market and its domestic firms from exiting the market by implementing necessary trading strategies. Understanding how to deal with potential intruders, when to take actions, and what appropriate actions to take under different sets of conditions are very crucial both theoretically and practically, because countermeasures may or may not be effective depending on what conditions one is constrained with. The theoretical framework, established in this paper, will provide a better understanding of anti-dumping policies and their implications for regulators, policy makers, managers, and academicians, while the results developed herein can be readily employed in real-life scenarios, making this work practically useful for understanding how international trade conflicts could be handled effectively.

Zhu, X., Liu, Y., Qian, F., Shang, H., **Wei, X.** (Department of Physics and Engineering), Zhang, S., Chen, J.M., and Ren, Z.J. (2018) "Carbon Transmission of CO₂ Activated Nano-MgO Carbon Composites Enhances Phosphate Immobilization," *Journal of Materials Chemistry A*, 6(8), 3705-3713.

RECENT PRESENTATIONS/ PERFORMANCES/EXHIBITIONS

Allen, S.R., Clarke, M.M., Walsh, M.A., Komoroski, D.L., **Jensen, B.T., Holmstrup, M.E.** (Department of Exercise and Rehabilitative Sciences) (2018) "Exercise Duration Augments Inter-Arm Systolic Blood Pressure Difference," poster presentation at ACSM National Conference, Minneapolis, MN, May 31.

Abstract: Blood pressure is a universal measurement used to aid in appropriate clinical decision-making and monitor safe exercise participation. Inter-arm systolic blood pressure difference (ISBPD; difference of ≥ 10 mmHg between arms) at rest is associated with vascular disease, arterial stiffness, and premature morbidity and mortality. The incidence ISBPD at rest is

low (i.e. commonly reported as 10%), though the occurrence of ISBPD is known to increase with short-term (i.e. < 5 min at 6 metabolic equivalents) moderate-intensity aerobic exercise. **PURPOSE:** To determine the exercise-induced ISBPD response during a prolonged steady-state bout of aerobic exercise. **METHODS:** Fifty-four individuals were studied on two separate occasions. On an initial visit, anthropometric measures and a VO_{2peak} test on a cycle ergometer were completed. On a subsequent visit, participants cycled at a workload equivalent to 50% of their VO_{2peak} for 30 min. Heart rate (HR) and systolic blood pressure difference (SBPD; measured sequentially using standard auscultation in both arms) were measured at rest, 5, 10, 20, and 30 minutes of exercise (EX-5, EX-10, EX-20, EX-30), and during an active recovery (AR). Descriptive and comparative (one-way ANOVA) statistics were generated. A binary logistic regression analysis was used to determine the change in the odds ratio (OR) of ISBPD given exposure to exercise. **RESULTS:** The incidence of ISBPD at rest was 19%. The occurrence of ISBPD increased to 35% at EX-5 and EX-10, and 46% at EX-20 and EX-30. Occurrence decreased to 20% during AR. Interestingly, each additional 1 mmHg difference in SBPD at rest was associated with an increased OR of ISBPD at EX-5 (1.139), EX-10 (1.335), EX-20 (1.220), and EX-30 (1.196; $p < 0.05$). Individuals in the highest tertile of systolic blood pressure (SBP) response during exercise presented with the greatest SBPD (10.7 mmHg) at EX-5. Finally, individuals identified as underweight and obese class II were more likely to present with ISBPD at rest and EX-20. **CONCLUSION:** The occurrence of ISBPD during moderate-intensity aerobic exercise increased with prolonged steady-state aerobic exercise. Body mass index and the magnitude of the SBP response to exercise may be linked to ISBPD incidence.

Anderson, S., Crighton, J., and **Fleming, B.** (Department of Communication) (2018) "Lessons learned: How to effectively rebuild your student media," paper presented at Broadcasting Education Association, Las Vegas, NV, April 21-23.

Antonellis, T. (Department of Art) (2018) "A Brush with Breath" (original painting) and "Volute" (original

drawing) accepted to 106th Annual Exhibition Associated Artists of Pittsburgh at Southside Works, Pittsburgh, on view September 14th through October 27, 2018. Accepted by Juror Taras Matla, Director of the University of Maryland Art Gallery, and former Manager of Department Prints and Drawings at the J. Paul Getty Trust.

Beck, A., Hollis, L., Bruggeman, S. (students) and Willford, J. (Department of Psychology) (2019)

“Self-Determination and Exercise Enjoyment Predict Body Satisfaction in College Students,” Abstract accepted for presentation at the 2019 National Council for Undergraduate Research conference, Atlanta GA, April 10-13.

Bowins, P. (Department of Art) (2019) “Exploring the missing Black American diaspora in the field of graphic design,” Towson University, Maryland, April 11.

Abstract: My purpose is to bring to the forefront those persons having origins in any of the Black racial groups of Africa who contributed to design, with little to no recognition in today's classroom and history books, and open a dialogue for all designers.

Bruggeman, S., Hollis, L., Beck, A. (students) and Willford, J. (Department of Psychology) (2019) “The Associations between Marijuana Use, Life Satisfaction, and Stress in College Students is Moderated by Gender,” Abstract accepted for presentation at the 2019 National Council for Undergraduate Research conference, Atlanta GA, April 10-13.

Brungard, A. B. (Department of Library) and Albro, M. (Shippensburg University) (2018) “STEM Librarian Mysteries Solved,” presented at the State System of Higher Education Libraries Council Conference, Harrisburg, PA, March 22-23.

Brungard, A. B. (Department of Library) and Euliano, B. (George Mason University) (2018) “Should You Add URIs? Linked Data in Library La La Land,” presented at Electronic Resources and Libraries Conference, Austin, TX, March 4-7.

Bruscemi, A., Sabatini, M. (students) and Willford, J. (Department of Psychology) (2019) “Depression Symptoms are Associated with EEG Alpha Power in College Students,” Abstract accepted for presentation at the 2019 National Council for Undergraduate Research conference, Atlanta GA.

Champion, D., Kuehn, S. (Department of Criminology and Criminal Justice), Fedorek, L., Irving, S., Rossi, J., and Stone, C. (2018) “Ethical Issues in Crime, Justice and Law: Innovations, Trends and Controversies,” roundtable (discussant) at the Pennsylvania Association of Criminal Justice Educators, Lock Haven, PA. May 9.

Clarke, M.M., Allen, S.R., Walsh, M.A., Kerecman, L.A., Cannizzaro, R.E., Holmstrup, M.E., Jensen, B.T. (Department of Exercise and Rehabilitative Sciences) (2017) “Exercise Duration Augments Inter-Arm Systolic Blood Pressure Difference,” Slide Presentation. MARC ACSM Conference, Harrisburg, PA- November 4.

Abstract: Blood pressure is a universal measurement used to aid in appropriate clinical decision-making and monitor safe exercise participation. An inter-arm systolic blood pressure difference (ISBPD; difference of ≥ 10 mmHg between arms) at rest is associated with vascular disease, arterial stiffness, and premature morbidity and mortality. Incidence of ISBPD at rest is approximately 10%, though ISBPD occurrence increases during short-term (e.g. < 5 min) moderate-intensity aerobic exercise. **PURPOSE:** To determine the exercise-induced response of ISBPD during a prolonged steady state bout of aerobic exercise. **METHODS:** Participants completed a VO_{2peak} test on a cycle ergometer. On a subsequent visit, participants cycled (60 rpm) at a workload equivalent to 50% of their VO_{2peak} for 30 min. Heart rate (HR) and systolic blood pressure difference (SBPD) was measured sequentially using standard auscultation in both arms at rest, 5, 10, 20, 30-min of exercise (EX-5, EX-10, EX-20, EX-30), and active recovery (AR). Descriptive and comparative statistics were generated. Further, logistic regression analysis was used to determine the change in the odds ratio (OR) of ISBPD given exposure to exercise. **RESULTS:** The incidence of ISBPD at rest was 19%.

Occurrence increased to 42% at EX-5 and EX-10, 56% at EX-20, 53% at EX-30, and 22% during AR. Males were more likely to present with ISBPD at EX-10 and EX-30 ($p<0.05$). Interestingly, an additional 1mmHg difference in SBPD at rest was associated with an increased OR at EX-10 and AR (1.341 and 1.234, respectively, $p<0.05$). EX-5 resulted in a higher OR (1.141, $p<0.05$) in participants that utilized a greater proportion of their peak HR reserve. **CONCLUSION:** The occurrence of ISBPD during moderate-intensity aerobic exercise increased with duration. Sex and submaximal HR response to prolonged exercise are closely related to exercise-induced ISBPD.

Chung, J. J., **Jenny, S. E. (Department of Public Health and Social Work)**, Drane, D., and Kim, J. (2019) "Impact of technology on grassroots sports programs: Examining the impact of video gaming on learning cricket," presented at Applied Sport Management Association Conference, Belmont University, Nashville, TN. February 14-16.

Crichton, J. and **Fleming, B. (Department of Communication)** (2018) "Five tips for building your brand: Social media best practices for you and your organization," paper presented at the College Media Association/Association for Collegiate Press Convention, Louisville, KY, October 26-30.

Denny, L. and **Tours, S. (Department of Elementary/Early Childhood Education)** (2019) "Self-efficacy of phonemic awareness after coaching sessions: A qualitative study," paper presented at Eastern Educational Research Association, Myrtle Beach, SC, February 20-23.

Eaton-Stull, Y. (Department of Public Health and Social Work)

- (2018) provided training on "Enhancing crisis intervention skills," Municipal Police Officer Education and Training. Regional training hosted by Hampton Police Department, Hampton, PA, May 3.
- (2018) along with **Cassandra Spirnock and Maura Vulakovich (students)** presented on "Animal-assisted interventions in prisons" at the

National Organization of Forensic Social Work in New Orleans, LA, June 22.

- (2018) along with **Marta Karczewski and Tarah Schmidt (students)** presented on "Crisis Intervention and Canine Comfort" at the PA region of the National Association of Social Workers conference in Pocono Manor, PA, September 12.
- (2018) along with **Ana Soeder (student)** presented on "Canine comfort following school crises" at the Crisis Intervention Association of PA annual conference in Nemacolin, PA, November 14.
- (2018) along with **Cassandra Spirnock (student)** presented on "Prison dog programs and re-entry success: The power of animals" at the Forensic Rights and Treatment conference in Grantville, PA, November 28.
- (2018) along with **Christina DeAngelis and Alisha Zambroski (students)** presented on "DBT skills training groups with and without animal-assistance for incarcerated women with self-harm histories" at the Forensic Rights and Treatment conference in Grantville, PA, November 29.

Falso, M. S. (Department of Biology), Shidemantle, G. I., Pasquale, V.E., Campbell, Z. I., Gustafson, K. L., Marshall, L.V. (students), Falso, P.G. (Department of Biology) (2019) "Photographic Examination of Nuptial Pads in *Xenopus laevis* Exposed to the Pesticide Imidacloprid," poster presentation at the Annual Meeting of The Society for Integrative and Comparative Biology, Tampa Bay, Florida, January 4.

Gallen, R., **Willford, J. (Department of Psychology), Schmitzer, R., and Kirlangitis, K. (students)** (2018) "Maternal competency predicts quality of infant-caregiver interactions," abstract presented at the 2018 Zero to Three Conference, Denver CO.

Fleming, B. and Zeltner, M. (Department of Communication) (2018) "Using the modified potter box to analyze the 'Trump effect' on student media," paper Presented at the Association for Education in Journalism

and Mass Communication Conference, Washington, DC, August 6-9.

Fleming, B. and Zeltner, M. (Department of Communication) (2018) "Dealing with the 'Trump Effect' as a student journalist," paper presented at the College Media Association/Association for Collegiate Press Convention, Louisville, KY, October 26-30.

Gallen, R., **Willford, J. (Department of Psychology), Schmitzer, R., and Kirlangitis, K. (students)** (2018) "Maternal competency predicts quality of infant-caregiver interactions," abstract presented at the 2018 Zero to Three Conference, Denver CO, October 3-5.

Hadley, S. (Department of Music) (2018)

- "Racially Responsive Clinical Practice" 5 hour CMTE with Marisol Norris, MA, MT-BC, and Demeko Freeman, MMT, MT-BC at the MAR-AMTA Conference in Pittsburgh, PA, April 12.
- "YWCA Examining Bias Diversity Training for Music Therapists," 3 hour CMTE with Mell Steven-Cosnek, MA, and Marisol Norris, MA, MT-BC, at the MAR-AMTA Conference in Pittsburgh, PA, April 12.
- "Queering Gender & Sexuality: Creating Inclusive Spaces," with Maevon Gumble, MT-BC, at the MAR-AMTA Conference in Pittsburgh, PA, April 13.
- "Culture Centered Music Therapy Supervision: Diverse Perspectives and Practical Applications," with Marisol Norris, MA, MT-BC, at the MAR-AMTA Conference in Pittsburgh, PA, April 13.
- "Public Conversation: Critical Pedagogy in the Arts Therapies Think Tank" with Yasmine Awais, MPhil, ATR-BC, ATCS, Meg Chang, Ed.D., BC-DMT, LCAT, Leah Gipson, MAAT, ATR-BC, LCPC, Cara A. Gallo-Jermyn, MS, BC-DMT/LCAT, Lizzie McAdam MA, RDT, LCAT, Marisol Norris, Ph.D. Candidate, MT-BC, Nisha Sajani, Ph.D., RDT-BCT, Sangeeta Swamy, Ph.D., LPC, MT-BC, Savneet Talwar

Ph.D., ATR-BC, and Britton Williams, MA, RDT, LCAT, at the Critical Pedagogy in the Arts Therapies: Restoring and Re-Storying the Disciplines Conference, Chicago, IL, September 14-15.

- "Music Therapy Abroad: Ethics, Implications, and Cultural Considerations," with Annie Heiderscheit, PhD, LMFT, MT-BC, Dena Register, PhD, MT-BC, Julianne Parolisi, MA, MT-BC, Ezequiel Bautista, MT-BC, Kelli Maddock, MMT, MT-BC, at the AMTA National Conference, Dallas, TX, November 16.
- "Queering Music Therapy Spaces: Listening and Looking with Radical Inclusivity," with Maevon Gumble, MT-BC, Rachel Reed, MT-BC, Candice Bain, MT-BC, Kristen McSorley, MT-BC, and Victoria Fansler, MT-BC, at the AMTA National Conference, Dallas, TX, November 17.

Hall-Wirth, J. and Bicehouse, V. (Department of Special Education) (2018) "Implementation of Project MAX Standards at Slippery Rock University," presented at the Project MAX Symposium. Hershey, PA. June 6-7.

Hall-Wirth, J., Rineer-Hershey, A. L., and Bieniek, E. J. (Department of Special Education) (2018) "A Survey Approach: Effects of Work Related Stress Among Special Education Teachers," presented at the 40th International Conference on Learning Disabilities. Portland, Oregon, October 11-12.

Hall-Wirth, J. and Rineer-Hershey, A. L. (Department of Special Education) (2019) "A Survey Approach: Effects of Work Related Stress Among Special Education Teachers," presented at the Third Annual CARE Conference. Las Vegas, Nevada, February 25-26.

Hilton, J.T. (Department of Secondary Education/Foundations of Education) (2019) "Preparing future teachers to more effectively teach students in poverty," paper presented at the 2019 Association of Teacher Educators Annual Conference in Atlanta, GA, February 16-20.

Hilton, J.T. (Department of Secondary Education/Foundations of Education) and McCleary, M. (2019) “Addressing social class: Overcoming common misconceptions to effectively teach those from poverty backgrounds,” paper presented at the 2019 Pennsylvania Association of Middle Level Educators state conference in State College, PA, February 24-26.

Hoffman, N., Economou, J. (students), Kovacs, I. (Department of Physical and Health Education) (2018) “Tactical Strength and Conditioning for Firefighters: Preliminary Results on Job-related Task Performance,” 2018 PSAHPERD Convention. Seven Springs, PA, November 8-10.

Hollis, L., Bruggeman, S., Beck, A. (students) and Willford, J. (Department of Psychology) (2019) “Academic Problems Associated with Drinking Predict Decreased Well-being in College Students,” Abstract accepted for presentation at the 2019 National Council for Undergraduate Research conference, Atlanta GA, April 10-13.

Holmstrup, M.E. (Department of Exercise and Rehabilitative Sciences), Clarke, M.M., Conner, C.R., Lin, Y., Jensen, B.T. (Department of Exercise and Rehabilitative Sciences) (2017) “The Effect of Exercise on Inter-Arm Systolic Blood Pressure Difference,” poster. ACSM National Conference, Denver, CO, June 2.

Abstract: Clinically, when a difference of ≥ 10 mmHg in systolic blood pressure (SBP) between arms exists, it is identified as inter-arm systolic blood pressure difference (ISBPD). At rest, ISBPD is linked with hypertension, peripheral vascular disease, and increased premature mortality. It is well known that exercise reveals underlying cardiovascular pathologies absent at rest. However, there have been no investigations to examine the effect of exercise on ISBPD. **PURPOSE:** To determine if exercise may alter ISBPD when measured at rest, or reveal ISBPD when not observed in the resting condition. **METHODS:** An experienced investigator sequentially measured SBP using standard auscultation in each arm (alternating order). ISBPD was quantified at rest (REST). Participants then completed a three-stage

protocol on a cycle ergometer. A cadence of 50 rpm was maintained at a workload of 3 (EX-3; light) and 6 METS (EX-6; moderate) and during an active recovery (AR). At each stage, SBP was measured upon achieving steady-state heart rate. A logistic regression analysis was used to determine the change in odds ratio of ISBPD when exposed to exercise. **RESULTS:** Eighty-five healthy individuals (18-45y) completed the study. Thirteen percent (n=11) presented with ISBPD during REST. In these individuals, the difference in SBP between arms was lower at AR than at REST (3.81 mmHg; $P < 0.05$). In individuals who did not present with ISBPD during REST (n=74), progression from EX-3 to EX-6 significantly increased the odds of ISBPD (4.31; $P < 0.05$). **CONCLUSION:** In individuals with ISBPD at rest, active recovery from exercise attenuated the difference between inter-arm SBP. Moderate-intensity exercise resulted in ISBPD not otherwise present at rest.

Holmstrup, M.E., Jensen, B.T. (Department of Exercise and Rehabilitative Sciences) (2018) “Integrative Insight into Inter-Arm Differences in Pulse Wave Velocity,” poster presented at North American Artery Conference, Chicago, IL, June 15-16.

Abstract: OBJECTIVES: Information from the autonomic nervous system (e.g. heart rate variability; HRV) and vasculature (e.g. arterial stiffness) can be integrated with blood pressure measurement to improve clinical decision making. Further, bilateral measurement is suggested as standard procedure for an initial blood pressure screening, as a large inter-arm difference (IAD) in systolic blood pressure at rest is linked to premature morbidity and mortality. Similarly, arterial stiffness has been shown to differ between arms, with a greater difference linked to increased cardiovascular disease (CVD) risk. To date, there have been no investigations to expand this bilateral perspective to measures of endothelial function which also reflects CVD. **AIM:** To quantify bilateral arterial stiffness and endothelial function contextualized by inter-arm difference and autonomic function. **METHODS:** Demographic measures including body fat percentage, cholesterol/glucose levels, and HRV were acquired using standard procedures. Bilateral resting pulse wave velocity

(PWV) and blood pressure were measured simultaneously and sequentially, respectively. Following a five-minute occlusion protocol, a second simultaneous measure was recorded and subtracted from PWV to reflect endothelial function (ENDO). Inter-arm difference for PWV and ENDO were calculated, and organized in tertiles (e.g. lowest, middle, highest). A one-way ANOVA was utilized to compare demographic, autonomic, and blood pressure variables to PWV and ENDO tertiles. **RESULTS:** Age, lean body mass, and resting heart rate differed based on PWV. Interestingly, individuals with the smallest inter-arm difference in PWV demonstrated decreased sympathetic (i.e. low-frequency HRV) and increased parasympathetic (i.e. high-frequency HRV) drive. Age, lean body mass, and low-density lipoprotein cholesterol differed based on ENDO. Individuals with the smallest observed inter-arm difference in ENDO also demonstrated greater IAD. **CONCLUSION:** The present findings support the practice of bilateral measurement of arterial stiffness and endothelial function which may provide valuable information for clinical reasoning.

Jenny, S. E. (Department of Public Health and Social Work) (2018) "Connecting children with fun running programs and activities," presented at 48th Annual SRUAHPERD Mini-Convention. Slippery Rock University, PA, April 18.

Jenny, S. E. (Department of Public Health and Social Work), Keiper, M. C., Gawrysiak, J., and Manning, R. D. (2018) "eSports in academia: Past, present, and future," UCI eSports Conference, University of California-Irvine, Irvine, CA, October 12.

Jensen, B.T. (Department of Exercise and Rehabilitative Sciences), Walsh, M.A., Clarke, M.M., Allen, S.R., Wikert, T.N., Brush, A.C., and Holmstrup, M.E. (Department of Exercise and Rehabilitative Sciences) (2018) "The Association of Bilateral Pulse Wave Velocity and Inter-Arm Systolic Blood Pressure Difference in Apparently Healthy Individuals," poster presentation at Experimental Biology Conference, San Diego, CA, April 23.

Abstract: Bilateral, either simultaneous or sequentially measured, blood pressure (BP) is used for the screening and diagnosis of inter-arm systolic blood pressure difference (ISBPD). ISBPD, wherein a difference of ≥ 10 mmHg in systolic BP between arms is noted, is associated with peripheral vascular disease, type 2 diabetes, and arterial stiffness. Similarly, arterial stiffness is a strong determinant of cardiovascular risk. Pulse wave velocity (PWV) is widely used as the gold-standard measurement of arterial stiffness. However, bilateral PWV is not commonly performed, and procedural measurement of PWV has yet to achieve clear standardization. Further, existing evidence is very limited regarding the relationship of bilateral carotid-radial PWV measurement and ISBPD. **PURPOSE:** To determine the association between bilateral BP and carotid-radial PWV. **METHODS:** To identify the relationship between bilateral carotid-radial PWV measurement and BP, we studied 53 subjects (26 ± 7.4 years, 57% female) with no known cardiovascular disease. Bilateral BP was acquired both sequentially (BP_{SEQ}) and simultaneously (BP_{SIM}) following a 10-minute rest period in the supine position. Right and left carotid-radial distances were measured using an Infantometer. Bilateral carotid-radial PWV was obtained using a Complior Analyse™ simultaneously. T-tests were performed to determine differences in BP_{SEQ} and BP_{SIM} and right and left carotid-radial pulse wave velocity (PWV_R; PWV_L), and correlation coefficients determined the relationship between bilateral BP and PWV differences (PWV_D). **RESULTS:** Bilateral BP_{SEQ} and BP_{SIM} measurement was similar (1.5 ± 7.2 mmHg and 1.2 ± 4.6 mmHg, respectively; $P > 0.05$) and BP was not different between arms regardless of method ($P > 0.05$). Interestingly, bilateral carotid-radial PWV was different (PWV_R = 7.8 ± 1.3 m/s and PWV_L = 7.3 ± 1.1 m/s; $P < 0.05$). BP_{SEQ} and BP_{SIM} is poorly correlated to PWV_D ($R = -.09$ and $R = .009$, respectively; $P > 0.05$). However, PWV_R was strongly correlated to PWV_D ($R = .63$; $P < 0.05$). **CONCLUSION:** Greater PWV is associated with a greater bilateral PWV difference. The consideration for bilateral measurement of PWV deserves further investigation. Bilateral BP and PWV differences may be valuable additions to a cardiovascular risk profile.

Jensen, B.T. (Department of Exercise and Rehabilitative Sciences), Walsh, M.A., Kuhn, T.A., McFadden, J.A., Weeter, T.M., and Holmstrup, M.E. (Department of Exercise and Rehabilitative Sciences) (2017) "Blood Pressure Cuff Selection: Does One Size Fit All?" Poster. ACSM National Conference, Denver, CO, June 2.

Abstract: Blood pressure (BP) is one of the most commonly measured vital signs. Historically, tremendous focus has been dedicated to increasing the reliability of BP measurement by standardizing protocols and reducing error to the smallest possible increment. Errors in BP measurement may result in misdiagnosis, cardiovascular complications during exercise, and improper prescription of antihypertensives. 'Miscuffing' is a common and significant source of error in BP measurement. The '80% rule' (i.e. cuff $\geq 80\%$ of an individual's arm circumference) is the gold standard method for BP cuff size selection as recommended by the American Heart Association.

Interestingly, BP cuff manufacturers routinely print their own cuff size recommendation, based on an arm circumference range, on their products and this method often differs in the suggested cuff size from the '80% rule'. **PURPOSE:** The current study examined the occurrence of 'miscuffing' and the outcome of BP measurement using the '80% rule' cuff selection method versus the manufacturer's recommendations.

METHODS: Forty-four individuals had their upper arm circumference measured, and appropriate cuff(s) selected using the two sizing methods. An automated oscillometric device was used to measure BP in duplicate with a 1-minute interval in between measurements, and 2-minute interval between cuffs if necessary. If different cuffs were selected, the order of measurement was randomized. A dependent t-test was used to ascertain potential BP measurement differences between sizing methods. **RESULTS:** 'Miscuffing' as the result of method discrepancies between the '80% rule' and the manufacturer's recommendation, occurred in over two-thirds (70%, n=31) of the sample. In these individuals, there was a significant difference in systolic BP between recommended cuffs (7.9 mmHg; $p < 0.05$).

Approximately 1 in 3 individuals, with two cuffs recommended (35%, n=11), had a smaller cuff suggested

by the manufacturer, and were misclassified with a significantly elevated systolic BP (average increase 12.5 mmHg; $p < 0.05$). **CONCLUSION:** BP cuff-selection methods are not universal and contribute to reliability concerns. 'Miscuffing' was a common observation when utilizing the manufacturer's method for cuff selection and resulted in BP measurement error and misclassification.

Joo, B.-K. (School of Business) (2018) "Kunja (Junzi): In search of a prototype of virtuous leadership in East Asia," poster presentation at Academy of Human Resource Development Conference Proceedings. Richmond, VA, February 14-17.

Joo, B.-K. (School of Business) and Jin, Y. S. (2018) "The effects of person-organization fit and personal growth initiatives on employees' career satisfaction and subjective well-being. Academy of Human Resource Development Conference Proceedings. Richmond, VA, February 14-17.

Joo, B.-K. (School of Business) and Riaz, A. (2018) "Impact of authentic leadership and group cohesiveness on employee engagement: Examining the moderating role of work-life conflict for flight attendants," Academy of Human Resource Development Conference Proceedings. Richmond, VA, February 14-17.

Jordan, J. (Bailey Library) and Tours, S. (Department of Elementary/Early Childhood Education) (2018) "Parent preparation for children entering preschool education within the United States based on socioeconomic class," paper presented at European Early Childhood Education Research Association 28th Conference, Budapest, Hungary. August 28-31.

Keener, E. (Department of Psychology), Skoczynski, S., and Kotvas, K. (students)

- (March 2019). Relationships matter: The role of gender and sexual orientation in communal conflict management. Poster presented at The Association for Women in Psychology, Newport, RI.
- (October 2018). The role of gender, sexual orientation, and relationship context on emerging

adults' endorsement of agentic conflict-management strategies. Poster presented at the Gender Development Research Conference, San Francisco, CA.

Kiess, C.L., Kelley, M.A., Calhoun, K.R., **Goodrick, A.S. (Department of Mathematics and Statistics), Holmstrup, M.E. (Department of Exercise and Rehabilitative Sciences)** (2017) "The Characterization and Prediction of a Safe Workload for the Unilateral Loaded Carry. Undergraduate Award Nominee," slide presentation. MARC ACSM Conference, Harrisburg, PA, November 4.

Abstract: The unilateral loaded carry (ULC) is a multi-planar, locomotive exercise that challenges the core and hip musculature, and may provide unique opportunities to develop lateral stabilization, muscle co-contraction, and balance. Due to compressive and shear forces on the spine with the ULC, caution must be exercised to account for potential injury risk. **PURPOSE:** To quantify and compare male and female ULC performance, and determine if additional variables allow the prediction of a safe starting load. **METHODS:** Anthropometric (height, body weight (BW), body mass index, and bioelectrical impedance analysis), muscular endurance (maximal duration side plank) and balance (balance error scoring system (BESS)) tests were completed. On a subsequent visit, participants performed a series of 20-second ULC trials (non-dominant side) at a consistent cadence. Initial load was 10% of BW and increased by 10% per trial. Five minutes of rest transpired between trials. When video analysis revealed deviations in spinal alignment or compromised gait patterns, the series ended. The highest load carried before technical failure was recorded. Descriptive and comparative statistics and a stepwise linear regression analysis were utilized to determine relationships between ULC performance and anthropometric, muscular endurance, and balance tests. **RESULTS:** Males (n=25) were significantly taller (177.3 ± 6.7 v. 164.7 ± 7.2 cm, $p < 0.05$), heavier (81.7 ± 7.0 v. 62.0 ± 9.4 kg, $p < 0.05$), and leaner (14.4 ± 4.4 v. 22.4 ± 4.8 %, $p < 0.05$) than their female (n=26) counterparts. Further, males had a higher amount of fat-free mass (FFM_{kg} ; $p < 0.05$) than females. Males and

females carried an average ULC load of 52.2 ± 9.0 (64% BW) and 32.5 ± 7.1 kg (53% BW), respectively, with males able to carry a significantly heavier load ($p < 0.05$). Fat-free mass was strongly predictive of ULC load ($ULC \text{ load} = -9.88876 + 0.88679 * (FFM_{kg})$; $r^2 = 0.774$, $p < 0.0001$). **CONCLUSION:** There are differences in ULC performance ability between males and females. As our method does not account for all potential confounding variables, the use of this equation should always be combined with technique analysis and participant feedback to ensure the safe prediction of a starting workload.

King, L. L. and **Roth, J. J. (Department of Criminology and Criminal Justice)** (2019) "A Gendered Analysis of Economic Offenses," paper presented at the Western Society of Criminology Annual Meeting. Honolulu, HI, February 7-9.

Abstract: While some research suggests that similar factors explain male and female offending, other studies have uncovered important differences in the significance and magnitude of predictors. The present study furthers this line of inquiry through a macro-level examination of male and female arrest rates for economic offenses. City-level data from the Uniform Crime Reports and the American Community Survey are used to separately examine gender-specific and gender-neutral predictors of male and female arrest rates for forgery/counterfeiting, fraud, and embezzlement. The results suggest both similarities and differences in predictors, and have important implications for future research.

Komoroski, D.L., Allen, S.R., **Jensen, B.T., Holmstrup, M.E. (Department of Exercise and Rehabilitative Sciences)** (2018) "The Relationship between the Inter-arm Systolic Blood Pressure Difference, Vascular Health, and Cognitive Function," slide presentation. MARC ACSM Conference, Harrisburg, PA, November 3.

Abstract: Associations between vascular health and cognitive function in the elderly are documented; however, cognitive decline may begin in the second or third decade of life. In support of this, measures of vascular health (i.e. pulse wave velocity (PWV)) and

cognitive function have been linked in young individuals. PWV may be useful in determining the risk of cognitive decline, however, its clinical use is not well-established. Blood pressure measurement, particularly the inter-arm difference in systolic pressure (IAD), may provide further insight into vascular function and complement PWV measurement. **PURPOSE:** To determine if a link exists between IAD, vascular health, and cognitive function in a well-characterized, young cohort. **METHODS:** Following informed consent, participants completed the Trails A and B tests. After a ten-minute rest, resting blood pressure, resting heart rate variability, and central PWV were attained using standardized procedures. Subsequently, each participant completed a peak aerobic capacity test (PEAK) on a cycle ergometer. **RESULTS:** On average, participants ($n=62$) completed Trails A in 17.1 ± 5.5 s and Trails B in 35.5 ± 13.3 s. Individuals with a higher central PWV completed Trails A test more rapidly (-0.252 , $p < 0.05$) than those with a lower central PWV. In the present cohort, the only significant predictors of performance in the Trails A test were PEAK (male and female) and resting heart rate (female). Further, PEAK and resting heart rate variability predicted Trails B performance, but only in females. There were no associations observed between IAD and cognitive function. **CONCLUSION:** The relationship between IAD, vascular health, and cognitive function may have been overpowered by sample homogeneity. The present findings suggest that additional factors related to heart rate variability may impact cognitive function, particularly in females.

Kovacs, I. (Department of Physical and Health Education) (2018) "Table Tennis Drive Techniques - Individualized Instructions," 2018 PSAHPERD Convention. Seven Springs, PA, November 8-10.

Kovacs, I. (Department of Physical and Health Education), and McClinton, A. (student) (2019) "Interrelationships among Various Test Performances for Upper Extremity Strength," SHAPE America National Convention, Tampa, FL, April 9-13.

Kovacs, I. (Department of Physical and Health Education), McClinton, A., Rauenzahn, C. (students)

and Liu, W. (Department of Physical and Health Education) (2019) "Table Tennis Training Results with Robot: Spin Rate and Hitting Speed in Forehand Loop-Drives," ACSM's 66th Annual Meeting, 10th World Congress on Exercise is Medicine and World Congress on the Basic Science of Exercise, Circadian Rhythms and Sleep. Orlando, FL, May 28-June 1.

Kovacs, I. (Department of Physical and Health Education), Rauenzahn, C., and McClinton, A. (students)

- (2018) "Table Tennis: Self-Regulated Forehand Loop-Drive Training with Robot," 2018 PSAHPERD Convention. Seven Springs, PA, November 8-10.
- (2019) "Table Tennis Loop-Drive Training: a Neuromotor Exercise Modality for the Adult Population," 16th International Table Tennis Federation Sports Science Congress, Budapest, Hungary, April 19-20.

Kuehn, S. (Department of Criminology and Criminal Justice) and Ridener, R. (2018) "Why Do Criminology Students Choose their Major?," presented at the Annual Meeting of the American Society of Criminology, Atlanta, GA. November 14-17.

Liu, W (Department of Physical and Health Education)

- (January 2019) "An effective approach to increasing school physical activity: CSPAP," paper presented at Professional Development Day, United Area School District, PA.
- (April 2018) "Comprehensive School Physical Activity Program: What, Why, and How?" paper presented at 2018 mini-convention of Slippery Rock University Association of Health, Physical Education, Recreation and Dance, Slippery Rock, PA.

Liu, W, Collette, R., Digregorio, A., Neary, K., Schoppe, A., and Weaver, J. (Department of Physical and Health Education) (November 2018) "Incorporating Chinese yoyo into your physical education program," physical activity session presented

at 2018 Convention of Pennsylvania State Association for Health, Physical Education, Recreation and Dance, Champion, PA.

Liu, W., Hull, E. E., and Kovacs, I. (Department of Physical and Health Education) (May 2017)

“University physical activity classes: Impact on students’ body weight and 1.5-mile run performance,” poster session presented at 2017 Annual Meeting of American College of Sports Medicine, World Congress on Exercise is Medicine, and World Congress on the Basic Science of Exercise and the Brain, Denver, CO.

Liu, W., Kovacs, I., and Hull, E. E. (Department of Physical and Health Education)

- (May 2017) “Creating an overall body composition index to predict 1.5-mile run performance among university students,” poster session presented at 2017 Annual Meeting of American College of Sports Medicine, World Congress on Exercise is Medicine, and World Congress on the Basic Science of Exercise and the Brain, Denver, CO.
- (March 2017) “Predicting 1.5-mile run from waist circumference among university students,” poster session presented at Research Program of 2017 National Convention of Society of Health and Physical Educators, Boston, MA.

Liu, W., Kovacs, I. (Department of Physical and Health Education), and McClinton, A. (student)

- (2019) “Brisk Walking: Body Fat Percent and Absolute vs. Relative Intensity,” SHAPE America National Convention, Tampa, Florida, April 10-14.
- (2019) “Comparison of Three Energy Expenditure Measures: Correlations and Differences,” SHAPE America National Convention, Tampa, Florida, April 10-14.
- (2019) “Impact of Body Fat Percent on Heart Rate of Moderate-Intensity Aerobic Activity,” ACSM's 66th Annual Meeting, 10th World Congress on Exercise is Medicine and World Congress on the Basic Science of Exercise,

Circadian Rhythms and Sleep. Orlando, FL, May 28-June 1.

Loveland, J. (Department of Biology)

- (2018) “Addressing student anxiety: Strategies for students, academic instructors and fieldwork educators,” paper presented at AOTA Conference, Salt Lake City, UT, April.
- (2018) “Student Anxiety in an Academic Setting: How to Identify and Assist Students Who Are Uneasy and Uncertain,” paper presented at AOTA Education Summit, Louisville, KY, October 14.

Lowery, W., Fleming, B. (Department of Communication), Crighton, J., and Spicer, R. (2018)

“Contemporary issues facing media advisors: safety, revenue, social media management, and administrative challenges,” paper presented at Broadcasting Education Association, Las Vegas, NV, April 21-23.

McClinton, A. (student), Kovacs, I. (Department of Physical and Health Education) (2018) “The Effects of Muscular Endurance vs. Power Training for Upper Body Strength of College-Aged Students,” 2018 PSAHPERD Convention. Seven Springs, PA, November 8-10.

McClinton, A. (student), Kovacs, I., and Liu, W. (Department of Physical and Health Education) (2019)

“Developing Muscular Power vs. Muscular Endurance: Results from Two Different Push-ups Training Programs,” ACSM's 66th Annual Meeting, 10th World Congress on Exercise is Medicine and World Congress on the Basic Science of Exercise, Circadian Rhythms and Sleep. Orlando, FL, May 28-June 1.

McHugh, M. and Keener, E. (Department of Psychology) and LaCom, C. (2018) PASSHE campus sexual assault prevention in a post Trump/DeVos world. Symposium Presentation at the PASSHE Women's Consortium Annual Conference, Lock Haven University, PA, October 5-6.

Neuscheler, L.S., Sprandle, M.A., Ace, S.N., Borland, R.K., Jensen, B.T., Holmstrup, M.E. (Department of

Exercise and Rehabilitative Sciences) (2018) "Acute Handgrip Exercise Alters the Inter-arm Systolic Blood Pressure Difference in Young Males and Females," presented at MARC ACSM Conference, Harrisburg, PA, November 3.

Abstract: A large inter-arm difference (IAD) in systolic blood pressure (BP) is linked to an increased likelihood of cardiovascular and peripheral vascular disease, hypertension, and premature mortality. Previous research has determined that an acute bout of aerobic exercise can alter IAD both during the activity and in post-exercise recovery. Isometric handgrip exercise (IHE) is known to alter BP both acutely and chronically, with potential sex differences and mechanisms noted. No prior investigations have examined the effect of IHE on IAD in males or females. **PURPOSE:** To characterize IAD and associated cardiovascular responses (heart rate variability (HRV), systolic/diastolic BP) to IHE. **METHODS:** On visit one, participants completed three maximal voluntary isometric contractions (MVIC) per arm using a Jamar handgrip dynamometer. During visit two, after a five-minute rest, a series of three resting bilateral BP measures were collected and averaged (REST) utilizing a Microlife Watch BP device. Following resting measures, participants maintained the handgrip dynamometer at 20% of their MVIC for two minutes (arm randomly assigned), at which time bilateral BP was again measured (IHE). Upon completion of IHE, subjects released the dynamometer and two additional bilateral blood pressure measures (REC 1 and REC 2) were taken at one-minute intervals. An independent-samples t-test and repeated measures ANOVA were used to compare and track variables of interest. **RESULTS:** Resting IAD was positively correlated with BMI (.354; $P < 0.05$) and waist circumference (.383; $P < 0.05$). IHE resulted in an increase in IAD in both males and females. Males demonstrated higher IAD at rest (7 ± 6 vs. 3 ± 3 mmHg) and during handgrip (12 ± 9 vs. 5 ± 4 mmHg) than their female counterparts ($P < 0.05$), with males also expressing a lower high-frequency HRV at rest ($P < 0.05$). **CONCLUSION:** Isometric handgrip exercise altered the inter-arm difference from rest to exercise, with males displaying an increased difference during both conditions. The attenuated exercise pressor response observed in female

participants may be due, in part, to a higher observed baseline of cardiovagal modulation.

Mild, T. and Bicehouse, V. (Department of Special Education) (2019) "Include Me: Creating Sensory-friendly Extracurricular Activities for Students on the Autism Spectrum," paper presented at the International Academy for Educational Studies Conference in Savannah, GA, March 4-7.

Abstract: This presentation communicated how to create sensory-friendly plays for students on the spectrum. A step by step outline was shared with participants. Participants were given the opportunity to brainstorm ideas and complete an action plan outlining how they could recreate this practice within their own organization therefore fostering inclusion within the school and community settings.

Nicholls, J. (School of Business) and Catherine Mezera (2018) "Research Propositions for a Functional Motivation based Examination of the Drivers of Future Civic Engagement Behavioral Intention," SeInforms Conference Proceedings Abstract, Myrtle Beach, SC. October 4-5.

Patel, V.K., Manley, S., **Nicholls, J. (School of Business)**, and Hair, J. F. Jr. (2018) "Stakeholder Orientation and Innovation Impact on Firm Performance – An Empirical Study," Academy of Business Research Conference Abstract Proceedings, Boca Raton, FL. – Best Paper Award. November 14-16.

Patel, V.K., Ragland, C.B., Tarbutton, J., and **Nicholls, J. (School of Business)** (2019) "Ideation for MVP –Using Lean Launchpad Concepts to Brainstorm Initial Design," USASBE Conference, St Pete, FL Conference Proceedings. January 23-27.

Permenter, R. (Department of English) (2018) "Not the Jester, but the Trickster: Bob Dylan's Shocks of Force," presentation at the Niels Bohr Professorship's 2018 Social Dimensions of Literature Conference: New Approaches to Bob Dylan. University of Southern Denmark, Odense, Denmark, October 4-6.

Roth, J. J. (Department of Criminology and Criminal Justice), Pierce, M. B., and Brewer, S. L. (2018)

“Student performance and satisfaction in video-conference and resident courses,” paper presented at the American Society of Criminology Annual Meeting, Atlanta, GA. November 14-17.

Abstract: Distance learning has become increasingly common in higher education over the past several decades, and there is now a large body of literature about online course delivery. However, there are few studies of another distance learning approach, namely, synchronous video-streaming. The authors’ campuses frequently share criminal justice courses in an arrangement where resident instruction is delivered at one campus while distant students simultaneously receive that instruction via live a video-stream. The present study compared course grades and satisfaction ratings between those two groups of students across a variety of criminal justice classes. The analyses indicated that, compared to the resident students, video-streaming students had significantly lower final grades and were significantly less satisfied, even after controlling for other relevant variables.

Sabatini, M., Brusceci, A. (students) and Willford, J. (Department of Psychology) (2019) “The Prevalence of Depressive Symptoms in College Students,” abstract accepted for presentation at the 2019 National Council for Undergraduate Research conference, Atlanta GA, April 10-13.

Shay, T., Kuehn, S., and Edwards, K. (Department of Criminology & Criminal Justice) (2019) “Direct Care Workers' Perceptions of Youth with Mental Health Issues in a Residential Treatment Facility,” presented at the Annual Meeting of the Academy of Criminal Justice Sciences, Baltimore, MD, March 26-30.

Teodoro, M. (Department of Dance) (2018) created and produced PALENQUE!, a 90-minute performance of dance/music and poetry presented at the Kelly Strayhorn Theater in Pittsburgh on October 26, 2018. 18 SRU dancers, 12 SRU student-crew and 3 SRU faculty were involved in the sold-out performance that featured Afro-Colombian culture.



Tevis, C., Kotvas, K, Skoczynski, S. (students), and Keener, E. (Department of Psychology) (2019) “What’s in a name or pronoun? An examination of the effects of gender inclusive pronouns on memory,” poster presented at The Association for Women in Psychology, Newport, RI, February 28 - March 3.

Thomas, R. E. W. (Department of Parks, Conservation and Recreational Therapy), Laurence, S., Smith, J., and Hedzik, P. (students) (2018) “Service-Learning as a Powerful Pedagogy for Environmental and Sustainability Education,” presented at the North American Association of Environmental Education conference, Spokane, WA, October 9-13. **Abstract:** In this session, we emphasized lessons learned from our collective experience using service-learning as a powerful pedagogy at Slippery Rock University to enhance community-campus partnerships and student learning outcomes for courses focused on natural resources and sustainability.

Tours, S. (Department of Elementary/Early Childhood Education) (2019) “Service learning: How to build community partners?” Birds of a feather discussion presented at Eastern Educational Research Association, Myrtle Beach, SC, February 20-23.

Tours, S. (Department of Elementary/Early Childhood Education) and Simsar, A. (2019) “Turkish preservice early childhood teachers’ self-efficacy on classroom diversity,” paper presented at 10th Annual International Conference on Superintendents, Principals and Teachers, Oxford, England, March 13-16.

Tours, S., Zane, L., Amodei, M., and Kelley, L. (Department of Elementary/Early Childhood Education) (2019, March) "Life changing experiences: An American school in Spain through the eyes of American pre-service teachers," paper presented at 30th Annual International Conference on Childhood Education, Oxford, England, March 10-13.

Tours, S. (Department of Elementary/Early Childhood Education), Jordan, J. (Bailey Library), Amodei, M. (Department of Elementary/Early Childhood Education), and Kim, W. (2019) "Elementary and early childhood major's influences to becoming a teacher based on gender," paper presented at Eastern Educational Research Association, Myrtle Beach, SC, February 20-23.

Tours, S. (Department of Elementary/Early Childhood Education), Jones, I., and Cig, O. (2018) "Florida kindergarten teachers' beliefs, practices, and opinions on the current state of curriculum," paper presented at European Early Childhood Education Research Association 28th Conference, Budapest, Hungary, August 28-31.

Tours, S. and Zane, L. (Department of Elementary/Early Childhood Education) (2018) "American pre-service teachers' perceptions of Swedish schools," poster presented at European Early Childhood Education Research Association 28th Conference, Budapest, Hungary, August 28-31.

Tours, S. (Department of Elementary/Early Childhood Education) and Lokey, C. (2018) "Subjective well-being theory and its utility for application with young children," poster presented at European Early Childhood Education Research Association 28th Conference, Budapest, Hungary, August 28-31.

Tours, S. (Department of Elementary/Early Childhood Education) and Simsar, A. (authored 2018) "Literature review of kindergarten and teachers' beliefs," paper presented at 27th International Conference on Educational Sciences Conference, Antalya, Turkey, April 18-22.

Westman, B. (Department of Art)

- (2019) *Portals* exhibition curated by Kate Lydon, Groups A exhibition 707 Gallery, Cultural District, Pittsburgh, March – April.
- (2019) *11th Baltic Mini Textile 2019*, international juried triennial, Museum of City Gdynia, Poland, March – June. The Baltic Mini Textile Gdynia competition has been held in Gdynia since 1993. Over the course of 25 years, we have seen works by artists from all over the globe, including Europe, Asia, North and South America and Australia. The review was initiated and launched by the Gdynia-based artist Aleksandra Bibrowicz-Sikorska. The exhibition features 50 textile miniatures selected by the jury of the 11th Baltic Mini Textile Gdynia competition from among 324 works submitted by 155 artists.
- (2019) College Art Association (CAA) annual conference. Westman organized a panel *Working Together on the Frontier: Art Collaborations with STEAM Across Campus*, where together with four artists educators she presented and discussed the interdisciplinary collaborative experience. February.
- (2019) Selected to be an art program external reviewer for the SUNY Plattsburgh University, NY, Responsible for reviewing the Art Department self-study, visitations, interviewing art faculty and department chair, college dean and provost at Plattsburgh University and providing the final report. February.
- (2019) *Student to Student*, the international fiber art collaborative project exhibition: Slippery Rock University and Academy of Fine Arts, Gdansk, Poland, students and art faculty, SGA Student Art Gallery, SRU, February.
- (2019) *Colors* – post-sabbatical exhibition featuring artworks created with a use of natural dyes (sabbatical research). This exhibition included artworks created by 4 Polish artists, Westman's partners at the summer artists residency in Poland.
- (2019) *Graphicall 2018 International Printmaking Exposium*, 4bid Gallery, Amsterdam, Netherlands, December – January, 2018-19. *Graphicall 2018* is the 3rd annual juried exhibition devoted to prints. This year we welcomed applications from all over

the globe bringing together a diverse representation of the print world today. GRAPHICALL exhibits Dutch and International artists working in the medium of printmaking alongside a series of workshops and a symposium hosting guest speakers from the field of contemporary printmaking. With this initiative we promote a discussion on what printmaking is today and encourage a reconsideration of the graphic mediums as versatile and multifaceted.

- (2018) LOFT, 10th Baltic Mini Textile of 2016, international juried triennial, at Loft, Raum für Kunst und Gegenwart, Ansbach, Germany, November.
- (2018) Fiber Art – artist residency: exploring natural dyes. Barbara Westman (SRU), Agata Zielinska-Glowacka (Academy of Fine Arts, Gdansk, Poland), Anna Goebel (University of Fine Arts, Poznan), Dorota Tarnowska – Urbanek (University of Fine Arts, Poznan), Dorota Taranek (University of Technology, Lodz), location: University of Fine Arts, Poznan, Poland, June.
- (2018) *Student to Student*, the international fiber art collaborative project exhibition: Slippery Rock University and Academy of Fine Arts, Gdansk, Poland, students and art faculty, Station Culture, Rumia, Poland, June –July.
- (2018) *Fiber Art*, an invitational group exhibition, Debiut Gallery, Gdynia, Poland, June 2018.
- (2018) *Impressions in Red*, the international fiber art collaborative project exhibition: Slippery Rock University and Academy of Fine Arts, Gdansk, Poland, students and art faculty, Dixon University Center, Harrisburg, April – October.
- (2018) *Pieced*, 23 printmakers members of South Graphic Council International, The Ruth Eckerd at The Bascom, A Center for the Visual Arts Gallery, Highlands, NC. March.
- (2018) *Nature Observed*, fiber art works exhibited at Hoyt Art Center, New Castle. May –August.
- (2018) Mid-America Print Council conference, Westman organized a panel *Working Together on the Frontier: Printmaking Collaborations with STEAM Across Campus*, where together with five printmakers she presented and discussed the

interdisciplinary collaborative experience. University of Wyoming, October.

- (2018) Southern Graphics Council International, selected for the group of 23 members exhibition /portfolio exchange *Pieced*, Las Vegas, NV, April.
- (2018) Presentation at 2018COIL: *Implementation of COIL in the Art Studio. Challenges and Success* COIL (Collaborative Online International Learning) focuses on expanding the course curriculum by offering a global and intercultural experience while working on an assignment in class, New York, NY, March.
- (2018) Three students from Westman's Advanced Printmaking class presented and exhibited at the National Council on Undergraduate Research conference NCUR2018. Mikaela Leonzio, Rachael Peterson and Zachary Rutter, University of Central Oklahoma, OK, April.

Willford, J. (Department of Psychology), Gallen, R., Schmitzer, R., and Kirlangitis, K. (students) (2018) "The perception of a mother's competency predicts the quality of interactions with her infant," abstract presented at the 2018 World Association for Infant Mental Health, Rome Italy. May 26-30.

Willford, J. (Department of Psychology) and Gallen, R. (2018) The opioid crisis and early intervention. Webinar presented to the Ohio Department of Developmental Disabilities. August.

Williams, A., Dauer, C. (students), McGraw, J.S., and Keener, E. (Department of Psychology) (2019) "'Does feminism look good on me?'" An examination of types of feminism, body image, and disordered eating," Poster presented at The Association for Women in Psychology, Newport, RI. February 28 - March 3.

Abstract: Approximately 64% of women are affected by body dissatisfaction and disordered eating nationally (NEDA, 2018). Previous research has shown the potentially protective qualities of feminist identification against body dissatisfaction and disordered eating (Murnen & Smolak, 2009). However, it is unclear whether the type of feminist identification matters in

terms of protection from body dissatisfaction and disordered eating. The present study explores the relationship by examining associations between six feminist perspectives (conservative, liberal, radical, socialist, cultural, and women of color feminism) and body dissatisfaction and disordered eating in women. We hypothesized that women who self-identify as a feminist would report lower rates of body dissatisfaction and disordered eating. Additionally, women who hold views that closely align with Liberal, Radical, or Women of Color Feminism would have lower rates of body dissatisfaction and disordered eating. Participants (N = 220) were undergraduate female students from a medium-sized university (88.6% European American; 3.8% African American; 7.6% “other” ethnicity). A range of majors and class levels were sampled, including those considered traditionally male- (e.g. Safety Management) and female-dominated (e.g. Psychology). The paper-and-pencil survey contained the Feminist Perspectives Scale (FPS-3) to measure six contrasting feminist perspectives (Henley et al., 1998). Body dissatisfaction (BD) was measured using the Body Shape Questionnaire (Evans & Dolan, 1993). Disordered eating was evaluated with the Eating Attitudes Test (Garner et al., 1982). The Self-Identification as a Feminist scale (SIF) was used to measure feminist identification (Szymanski, 2004). Results demonstrated a significant positive relationship between SIF and BD. Contrary to predictions, significant positive associations were obtained between Radical and Women of Color feminism and BD in women. Higher levels of these types of feminism were associated with greater BD. These results will be discussed in terms of the current literature on the role of feminism in body dissatisfaction and disordered eating.

Wilson, B. and **Hilton, J.T. (Department of Secondary Education/Foundations of Education)** (2019, February) “Developing HIP faculty: A pathway to HIP designated courses,” panel presentation at the HIPs in the States Conference in Bowling Green, KY, February 20-22.

Zane, L. and Tours, S. (Department of Elementary/Early Childhood Education) (2019) “Teacher candidates’ expectations of Swedish schools,” paper presented at Eastern Educational Research Association, Myrtle Beach, SC, February 20-23.

RECENT RESEARCH ACTIVITIES AND ACCOLADES

Amodei, M. and Tours, S. (Department of Elementary/Early Childhood Education) (2019) “Conscious discipline: One school's journey through the teachers' perspectives,” in progress. (IRB Protocol #2018-041-17-A).

Antonellis, T. (Department of Art)

- (2019) Martha Gault Art Gallery exhibition of “In Honor of Koloman Sokol” Directed and Curated by Theresa Antonellis. Poster by Theresa Antonellis. Exhibition in collaboration with Academy of Fine Arts and Design, Bratislava Slovakia.
- (2018) “One Breath: An Evening of Stillness and Motion,” Oberlin College, Oberlin, OH, Painting performance on stage with Oberlin Student Dance Group at Warner Center, Choreographed by Professor and Chair of Dance Department, Anne Cooper Albright, May 2018
<https://www.sru.edu/news/060118a>
- (2018) Museum Purchase of One Breath: An Evening of Stillness and Motion (original painting by Theresa Antonellis) acquired and purchased by The Allen Memorial Art Museum of Art, Oberlin, OH, May 2018

Cooklin, K. (Department of Philosophy) (2018) was a panelist at the Deliberative Forum on The Issue of Abortion in America, a forum hosted by Carnegie Mellon University’s Program for Deliberative Democracy. October.

The panel, which also included a physician, a legal theorist and a social worker, addressed abortion in America and engaged citizens with the goal to improve public decision-making through an informed, structured discussion. Coupled with a similar deliberative forum at

Temple University, results from the discussions will be shared with the Pennsylvania State Legislature and the Pennsylvania Women's Caucus.

DeNicola, D. (Department of Biology) gave a talk entitled "A Stochastic Model of Epilithic Algal Succession and Patch Dynamics in Streams" at the Annis Water Resources Institute, Grand Valley University, in Muskegon, MI on 12 October 2018. This presentation was on a computer model that simulates algal growth in streams, which he developed during his 2017-2018 sabbatical.

Eaton-Stull, Y. (Department of Public Health and Social Work)

- (June, 2018) along with social work **students Cassandra Spirnock and Maura Vulakovich** concluded their research at the State Correctional Institution at Mercer entitled "Animal-Assisted Stress/Anxiety Group with Incarcerated Males".
- (August, 2018) along with **social work students Christina DeAngelis and Alisha Zambroski** concluded their research at the State Correctional Institution at Cambridge Springs entitled "DBT Skills training groups with and without animal-assistance for incarcerated women with self-harm histories".
- (June, 2018) awarded College of Health, Environment and Science Research Grant for research at the State Correctional Institution at Cambridge Springs.
- (June, 2018) along with **social work student Christina DeAngelis**, awarded Summer Undergraduate Research Experience Grant and for research at the State Correctional Institution at Cambridge Springs.
- (Jan-June 2019) along with **social work students Caitlin Chavez and Ana Soeder**, awarded Faculty/Student Research Grant for research at the State Correctional Institution at Mercer.
- (Mar-June 2019) along with **social work student Francine Lilien**, awarded SRU Grant for Student Research, Scholarship and Creative Achievement for research at the State Correctional Institution at Cambridge Springs.

Fleming, B. (Department of Communication) (2019) was awarded the First Place in the "Promotional/Education" category at the 2019 National Broadcasting Society convention, also invited to speak on a panel about a collaborative project with faculty and students in the Colleges of Education. The videos included an in-studio interview with a Holocaust survivor who spoke on the idea of sensory-friendly productions and a video compilation of interviews with students who explained the project process. Here are the links to the videos:

https://www.youtube.com/watch?v=qN_Rd5R1vFU&t=9s
<https://www.youtube.com/watch?v=amRqF91pL6A>

Hilton, J.T. (Department of Secondary Education/Foundations of Education) (2019) became the lead editor for a peer-reviewed journal, *Pennsylvania Teacher Educator*.

Joo, B.-K. (Brian) (School of Business) and Jin, Y., S. Jin (2018) Academy of Human Resource Development Cutting Edge Research Award for the paper, The effects of person-organization fit and personal growth initiatives on employees' career satisfaction and subjective well-being.

Abstract: Employee well-being is one of the most under-researched areas in human resource development (HRD) despite its potential contribution to research and practice in HRD. The purpose of this study was to investigate the impacts of perceived person-organization (PO) fit and personal growth initiative (PGI) on career satisfaction and subjective well-being (SWB), based on responses from 235 employees in a South Korean telecommunication company (response rate: 67%). Using structural equation modeling analysis, we found that PO fit and PGI explained 35% of the variance of career satisfaction. In addition, PO fit, PGI, and career satisfaction accounted for 52% of the variance in SWB. Based on the results of bootstrap analyses, we found PGI and career satisfaction were significant mediators. The contributions of this study are that relatively new constructs (i.e., PO fit and PGI) were introduced to career and well-being research. More specifically, in response to the call for employee well-being research in the

workplace, this is the first study to empirically find a positive effect of PGI on career satisfaction and SWB. In addition, we successfully validated PGI in the South Korean context. We anticipate that this study will stimulate more research on well-being at work as well as PGI in the field of HRD.

Kuehn, S. (Department of Criminology & Criminal Justice) (2018) SRU Academic Innovations Grant, 2018 (\$1,000).

Nicholls, J. (School of Business)

- (2018) Author New York Life Gen Z for 2019 Pittsburgh AMA Strategic Marketing Case Competition at Point Park University.
- (2018) eolsen@helixeducation.com, host Enrollment Growth University Podcast, <https://www.helixeducation.com/podcast/>, interviewed 9/10/18, aired
- (2018) dan.berrett@chronicle.com, beth.mcmurtrie@chronicle.com, beckie.supiano@chronicle.com "How One University Tries to Make Its Teaching Training Stick," invited article contribution, 8/2018, The Chronicle of Higher Education, <https://www.chronicle.com/article/How-One-University-Tries-to/244286?cid=tn&elqTrackId=c857638a57f04c6dbff6be9b88bd0d2c&elq=27e1274771b348d2a96c524255e03941&elqaid=20238&elqat=1&elqCampaignId=9473>

Skeele, D. (Department of Theatre) (2018)

- Has his play *Becky and the Magic Harp* included in the anthology *The Best Women's Monologues* of 2018, published by Smith and Kraus.
- Has sold the Hindi-language rights to his play *Dark North* to Citoc Motion Pictures of Mumbai, India. Citoc will translate the play into Hindi and create a "cineplay." Citoc has become renowned for their cineplay treatments of the work of established Indian playwrights, and they have chosen Skeele's play as one of the first of their new "international series."

Tours, S. (Department of Elementary/Early Childhood Education) and Denny, L. (2018) "iPad phonemic awareness coaching for pre-school teachers," completed (IRB Protocol #2018-058-17-B). (Working with undergraduate student Lauren Denny)

Tours, S., Amodei, M. (Department of Elementary/Early Childhood Education), Jordan, J. and Woosuk, K. (2018) "Career motivations of pre-service teachers at Slippery Rock University," completed. (IRB Protocol #2018-020-17-A).

Tours, S., Zane, L., Amodei, M., and Kelley, L. (Department of Elementary/Early Childhood Education) (2018) "Pre-service teachers' perspectives of American and international schools," in progress. (IRB Protocol #2019-013-17-B).

Wang, J. and Danielson, S. (Department of Geography, Geology, and the Environment) (2019) "Forest Fire Management in Rural Yunnan, China," AsiaNetwork Student-Faculty Fellows Program Grant (\$34,955.00).

Frequently Asked Questions

1. What is the Rock Research Expo?

The Rock Research Expo (RRE) is an annual newsletter that keeps our campus informed of the scholarly endeavors and potential research opportunities for faculty and students.

2. Why is it important to participate?

The RRE shares, across disciplines throughout campus, new knowledge being gained through both faculty and student research. Additionally, the RRE serves to promote academic communication, collaboration, and a success-driven environment of learning for faculty and students.

3. What types of submissions are appropriate?

- ❖ Recent publications by faculty members and students
- ❖ Research projects and grant acquisition information (title, authors, brief description)
- ❖ Recent presentations, performances, and exhibitions by faculty and students

4. How do I submit my information?

Faculty and students (with faculty letter of support) may submit their information via email to: rockresearchexpo@sru.edu.

5. When is the deadline to submit?

Submission deadline for the newsletter is February 28.

6. When will the next issue be published?

The newsletter is published annually after spring break.

7. How should I cite my submission?

Use whatever citation format is standard for your field of study. A short abstract may be included, if desired.

Please make sure to include the name of your department. See the example below.

Amodei, M. (Department of Elementary/Early Childhood Education), Jalongo, M.R., Myers, J., Onchwair, J., and Gargiulo, R.M. (2013) "Survey of publication outlets in early childhood education: Descriptive data, review processes, and advice to authors," *Early Childhood Education Journal*, 41(2), 115-123.

