

MOMENTUM

2018-2020

Research, Scholarship, and
Creative Achievement



TEXAS A&M UNIVERSITY
SAN ANTONIO

RISING TO THE TOP



Dear Colleagues:

Texas A&M University–San Antonio (TAMUSA) is dedicated to producing the highest levels of research and scholarship, and our faculty members demonstrate their commitment to making Texas A&M University–San Antonio a world-class university by making quality research and creative achievement part and parcel of everything we do. Research and scholarship at TAMUSA is about breaking down walls—between fields, between faculty and students, between what is and what could be. Our world-class researchers push boundaries and ask questions that will take our knowledge as a society to the next level.

For TAMUSA researchers, scholars, students, and staff, the fruits of intellectual labor—to learn, produce knowledge, and contribute to society—define an abiding commitment to being a student-centered research university. With research experience and strengths ranging from health to humanities, technology and the environment, population and food challenges, it's clear that this work produces knowledge and understanding and impacts the greater good on a local and global scale.

Research and scholarship that rise to the top have the greatest societal impact and are published in the most prestigious peer-reviewed journals, and require more than passive support—they require a proactive and robust commitment. Our ongoing goal is to build on our current strengths in research and scholarship (which are outlined in this publication), identify new insights, and chart our path forward as an innovative, civically engaged, and student-centered tier-one research university.

Sincerely,

A handwritten signature in blue ink that reads "Michael J. O'Brien". The signature is fluid and cursive, written over a light blue horizontal line.

Michael J. O'Brien
Provost

BUILDING RELATIONSHIPS

Dear Colleagues,

The Texas A&M University–San Antonio (TAMUSA) Office of Research is committed to the highest standards of integrity in fulfilling its mission to grow, strengthen, promote, and safeguard TAMUSA's research enterprise. Through expert proposal development, the responsible stewardship of awards, the highest levels of compliance, and cutting-edge research administration, the Office of Research's support of the TAMUSA research community is designed to catalyze research, scholarship, and creative expression, in order to advance TAMUSA as a preeminent research university with a distinctive character.

TAMUSA prides itself on research that is groundbreaking and multidisciplinary. Our talented and diverse faculty, who represent various colleges and schools, work collaboratively on innovative research. Their vertically integrated research usually allows for undergraduate student involvement. Our faculty collaborations extend globally beyond Texas A&M campuses, and our faculty are renowned for their research expertise as evidenced by their competitive grant awards, peer-reviewed publications, creative works, and national and international awards and recognitions.

In the following pages, you will find examples of faculty and student research programs tackling some of the biggest global challenges in health, security, and sustainability. This is a time of great challenges, providing an opportunity for the TAMUSA community and our external partners to work together to increase the University's impact by applying use-inspired research to areas of critical need.

Relationship building and superior customer service are the top priorities of each member of the Office of Research team. Today's funding environment can be challenging—and we work as a partner through the sponsored project lifecycle, making every effort to ensure the success of our researchers and scholars and the University. It has been my great pleasure to support these endeavors, and I look forward to the many new capabilities yet to be created through the collaborative, interdisciplinary research of our academic community.

With best wishes,



Vijay Golla

Vice Provost for Research and Graduate Studies



COLLEGE OF

ARTS AND SCIENCES



Debra A. Feakes
Dean of the College of Arts and Sciences

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Philis Barragân-Goetz, Assistant Professor, Department of Communication, History, and Philosophy

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I'm a social and cultural historian who loves working in archives. My first book, just published, examines Mexican American cultural negotiation through the lens of educational history, particularly focusing on the rise of escuelas, or ethnic Mexican community schools, in Texas.

- *Philis Barragân-Goetz, Assistant Professor
Department of Communication, History, and Philosophy*

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I work on race, gender, and economics in early modern English drama and on Shakespeare adaptation. I love exploring the ways Shakespeare has been reimagined around the world, including here in the U.S.–Mexico Borderlands.

- *Kate Gillen*
Associate Professor and Chair,
Department of Language, Literature and Arts



Writing poetry does many things for me, but I am most humbled by these two: it offers a space to think without the need for apology or filter, and it allows me to honor my ancestors with the same kind of musicality and craftsmanship and resolution they employed in their own various makings.

- Laurie Ann Guerrero, Associate Professor,
Department of Language, Literature, and Arts



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I’m deeply interested in how human activity and sensory pollution affect animal behavior and whether behavioral adaptations or changes scale-up to long-term changes in animal populations and communities.

- Jennifer Phillips, Assistant Professor, Department of Life Sciences



Klein, R. A., Vianello, M., Hasselman, F., Adams, B. G., Adams, R. B., **Huynh, H. P.** ... Nosek, B. A. (2018). Many labs 2: Investigating variation in replicability across sample and setting. *Advances in Methods and Practices in Psychological Science*, 1, 443–490.

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Francis Galán, Associate Professor, Department of Communication, History, and Philosophy

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Basic research leads to new knowledge.

It provides scientific capital. It creates the fund from which the practical applications of knowledge must be drawn.

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One of the most gratifying aspects of my research on the Holocaust involves the opportunity to share it with my students. I am grateful for the insights, comments, and suggestions that emerge as we engage in a shared discourse that broadens our knowledge and understanding of this dark chapter of human history.

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BUSINESS



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As a scholar I enjoy conducting research on ethnic entrepreneurship as well as innovation. I hope to shed light on diversity and inclusion issues and afford more minorities opportunities for success in business.

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EDUCATION AND HUMAN DEVELOPMENT



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I'm a former teacher in the Minneapolis public schools who now studies the interplay among race, power, and curriculum and how successful White teachers work with their students of color in de facto segregated schools.

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- Watts, G. W.**, Bryant, D. P., & Roberts, G. J., (2019). Effects of cross-age tutors with EBD on the mathematics performance of at-risk kindergarteners. *Journal of Emotional and Behavioral Disorders*. doi:10.1177/1063426619884271.
- Watts, G. W., Bryant, D. P., & Carroll, M. L. (2019). Students with emotional-behavioral disorders as cross-age tutors: A synthesis of the literature. *Behavioral Disorders*, 44, 131–147.
- Barteau, H. L., & Webb, C. L. (2019). Incorporating socialist educational practices within a democratic society: A comparison of the United States and Cuba's education systems. *Review of Education, Pedagogy, and Cultural Studies*. doi.org/10.1080/10714413.2019.1635372.
- Puente, K., & **Wilson, J. C.** (2019). *Writing workshop in the elementary classroom: A practical guide for teachers*. Lanham, MD: Rowman & Littlefield.
- Bell, C. H., Borsuk, C. S., **Wong, C. D.**, & Somody, C. (2018). Evaluating effectiveness in a Hispanic-serving counselor training clinic. *Counseling Outcome Research and Evaluation*, 9, 67–79.
- Avent, J. R., & **Wong, C. D.** (2018). African American college students, the Black church, and counseling. *Journal of College Counseling*, 21, 15–28.
- Wu, H.-P., Garza, E., & Guerra, M. J.** (2019). *Second language education for teacher candidates & professionals*. Dubuque, IA: Kendall Hunt.

STAFF PUBLICATIONS



My research examines student retention and success among underrepresented college-student populations by analyzing factors impacting their persistence toward graduation as well as exploring strategies to enhance intercultural responsiveness among those groups.

- Ashley Spicer-Runnels
Assistant Vice Provost for Academic Affairs

Cooper, M. K., Ford, W., & Lewis, A. C. (2020). "Pull" more than "push" for organic alumni development. *Journal of Education Advancement and Marketing*, 5, 27–40.

DeDiemar, J., & Cartaya Franco, L. (2019). Storytelling: A comprehensive, integrated outcomes-focused strategy. *Journal of Education Advancement and Marketing* 4: 135–149.

DeDiemar, J. (2020). COVID-19: Strategies for communicating and leading with certainty. *University Business*, March 18. <https://universitybusiness.com/strategies-for-communicating-and-leading-with-certainty>.

Teniente-Matson, C. (2019). A leadership competency study of chief business officers. In R. A. Gigliotti (Ed.), *Competencies for effective leadership: A framework for assessment, education, and research* (pp. 135–160). Bingley, UK: Emerald Publishing.

Spicer-Runnels, A., & Simpson, T. (Eds.). (2020). *Developing an intercultural responsive leadership style for faculty and administrators*. Hershey, PA: IGI Global.

Spicer-Runnels, A. (2020). Dismantling invisibility in multiracial college students: The impact of social and academic integration on student persistence. In A. Spicer-Runnels, & T. Simpson (Eds.), *Developing an intercultural responsive leadership style for faculty and administrators* (pp. 1–20). IGI Global.

Spicer-Runnels, A. (2019). Examining the influence of dual credit on the academic success of first-generation college students. In T. Hicks, D. Butler, & M. Myrick (Eds.), *First-generation college students research studies* (pp. 87–101). Lanham, MD: Rowman Littlefield.

Spicer-Runnels, A. (2019). Transcending the imposter phenomenon as a multiracial professional. In M. Robinson-Nichols, M. Galloway Burke, & L. Hill (Eds.), *No ways tired: The journey of professionals of color in student affairs* (pp. 149–154). Charlotte, NC: Information Age.

EXTERNAL GRANTS



Bojorquez, H. & Sheperis, C. J.

(December 2020 – December 2025).
\$3,898,640. Vision Coders. U.S.
Department of Education.

Boucher, M., Burgard, K., Davis, M. T., Garza, E., Guerra, M., Janysek, M., Jozwiak, M., O'Quinn, C., & Sheperis, C. J. (co-PIs).

(July 2020 – June 2030). \$5,005,700. Senate Bill 1882 partnership between Edgewood ISD and Texas A&M–San Antonio for Gus Garcia Middle School. Texas Education Agency.

Burgard, K. (PI), **O'Quinn, C., Boucher, M. L.** (co-PIs), & **Gage, S.**

(May 2019 – October 2020). \$19,650. Using historical photographs to create a culturally relevant classroom. Library of Congress.

Davis, M. T., Janysek, M., Jozwiak, M., & Sheperis, C. (co-PIs).

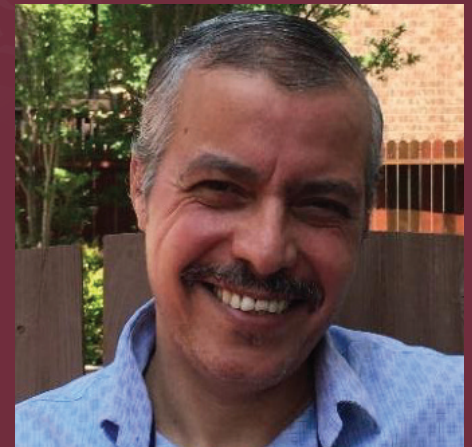
(July 2020 – June 2030). \$65,000. Senate Bill 1882 Partnership between Edgewood ISD and Texas A&M–San Antonio for the Burleson 18+ Center. Texas Education Agency.

Davis, M. T., López, E. J., Watts, G. W., Jozwiak, M. M., & Sheperis, C. J. (co-PIs).

(September 2020 – September 2023). \$2,024,181. TU CASA: Transition university for career advancement and successful adulthood. U.S.

I am proud to have a job that is allied with my passion to keep learning as I work. In my fields in particular—cyber security and data analytics—continuous learning is a must to stay ahead in what you teach and do research in.

- Izzat Alsmadi
Associate Professor and Chair
Department of Computing & Cyber Security



Department of Education: Transition Programs for Students with Intellectual Disabilities into Higher Education.

Davis, M. T. (November 2018 – July 2019). \$1,000. Student council for learning disabilities (SCLD) grant – Texas A&M University–San Antonio. Council for Learning Disabilities International Organization.

Davis, M. T. (November 2018 – July 2019). \$600. Texas CLD (TCLD) chapter grant. Council for Learning Disabilities International Organization.

Gillen, K. (June 2021 – July 2021). \$7,000. Race, Rome, and early modern drama: The whitening of England and the Classical World. Short-term research fellowship, Huntington Library.

Gillen, K. (June 2019 – July 2019). \$5,000. Race, Rome, and early modern drama: The whitening of England and the Classical World. Short-term research fellowship, Folger Shakespeare Library.

Grotewold, K. S. (PI), **Kohler, K.**, **Martinez, T.** & **Kulka, L.** (co-PIs). (May 2020 – November 2020). \$6,000. Teachers as content & knowledge creators: Understanding creative commons, OER, and visual literacy to empower diverse voices. Branch Alliance for Educator Diversity OER Development.

Kearney, W. S. (PI), **Esparza-Young, E.**, **Garcia, N.**, **Garfield, T.**, **Gerzel-Short, L.**, **Guerra, M.**, **Harris, S.**, **Janysek, M.**, **Jozwiak, M.**, **Jurica, J.**, **Kim, Y. R.**, **Kwon, E.**, **Murakami, E.**, **Piper, R.**, **Pittman, R.**, **Scott, L.**, **Vera, D.**, **Wilson, J.**, & **Wu, H. P.** (co-PIs). (September 2017 – May 2020). \$740,000. Teacher residency – training and preparation partnership. U.S. Department of Education.

Kim, Y. R. (PI) & **Park, M. S.** (co-PI). (January 2019 – December 2019). \$25,000. Hola STEM middle school girls project. HOLT CAT.

Lodgher, A. (PI), **Bhatt, S.**, & **Tawalbeh, L.** (co-PIs). (March 2020 – March 2024). \$750,000. Chancellor's Research Initiative. Texas A&M System.

Lodgher, A. (September 2018 – September 2021). \$18,000. The UTSA IC CAE critical technology

studies program. Defense Intelligence Agency.

Lodgher, A. (PI) & **Yang, J.** (co-PI). (October 1, 2017 – September 30, 2019). \$130,371. Cyber security modules for core, major, and elective courses in the bachelor of science (BS) computer science curriculum. National Security Agency.

McCarl, B. (PI), Ajami, H., Hogan, R., Mohtar, R., Pistikopoulos, S., **Rosen, R.**, Schwabe, K., Srinivasan, R., Stevens, R., & Wu, L. (co-PIs). (October 2017 – September 2021). \$2,431,217 (\$90,000 to A&M–SA). Decision support for water-stressed food, energy, water nexus decisions. National Science Foundation.

Rosen, R. A. (September 2019 – March 2021). \$300,000 (\$212,000 to A&M–SA). Edwards Aquifer water quality protection from catastrophic and low to mid-level effects of discharge of hazardous and polluting materials from contaminated water runoff during emergency response. Edwards Aquifer Protection Venue Project, City of San Antonio.

Rosen, R. A. (April 2019 – December 2019). \$20,000. Internet for Texas water data initiative: Characterization of use cases, data standards, and strategic plan for a Texas data hub. Meadows Center for Water and the Environment and Cynthia and George Mitchell Foundation.

Rosen, R. A. (September 2018 – September 2019). \$2,000. Building an internet of Texas water. Research coordination network on climate, energy, environment and engagement in semi-arid regions. National Science Foundation.

Rosen, R. A. (September 2018 – August 2019). \$100,700. Planning for the development of collaborations, funding opportunities, and proposals mutually beneficial to the EAA and A&M–SA. Edwards Aquifer Authority.

Cifuentes, L. (PI), Vanegas, J., Jeffress, G., **Rosen, R.**, & **Patrick, W.** (co-PIs). (September 2011 – August 2019). \$738,678. Research coordination network on climate, energy, environment, and engagement in semi-arid regions. National Science Foundation.

Rosen, R. A. (January 2018 – September 2018). \$20,000. Texas on-ramp to the internet of water. Texas Water Development Board.

Ross, C. N. & **Reveles, K.** (co-PIs). (September 2020 – June 2025). \$3,381,296. Microbiome-mediated therapies for aging and healthspan in marmosets. National Institutes of Health.

Ross, C. N., **Levine, J.**, & **Rogers, J.** (co-PIs). (September 2020 – June 2025). \$4,927,799. Collaborative expansion of marmoset colonies for neuroscience research. National Institutes of Health.

Musi, N. (PI) & **Ross, C. N.** (Co-PI and Core Co-lead). (June 2020 – June 2025). \$6,214,200. San Antonio Claude D. Pepper Older Americans Independence Center. National Institutes of Health.

Ross, C. N., **Conrad, D.**, & **Levine, J.** (co-PIs). (August 2020 – June 2025). \$3,162,251. Coordinating center for collaborative marmoset research. National Institutes of Health.

Ross, C. N. & **Salmon, A.** (co-PIs). (September 2020 – May 2023). \$1,362,452. Characterization of marmosets as a geroscience model by the San Antonio MAP. National Institutes of Health.

Phillips, K. (PI) & **Ross, C. N.** (co-PI). (August 2019 – July 2024). \$1,500,000. Marmosets as a model for understanding social, neuroendocrine, and vascular contributions to cognitive aging. National Institutes of Health.

Schlesinger, L. (PI) & **Ross, C. N.** (Lead-PI). (May 2019 – April 2021). \$423,597. Alzheimer's disease and its related dementias (AD/ADRD)—focused administrative supplements for NIH grants that are not focused on Alzheimer's disease. National Institutes of Health.

Blackman, M., **Patterson, J.** (PIs), & **Ross, C. N.** (Co-PI). (July 2019 – December 2023). \$199,011. Zika virus countermeasures: Preclinical pregnancy models to assess protective efficacy against placental damage and fetal demise. Congressionally Directed Medical Research Programs.

Galarza-Munoz, G. (PI) & **Ross, C. N.** (Co-PI). (April 2019 – December 2020). \$170,266. Novel accurate therapy for multiple sclerosis: Optimization of antisense oligonucleotides delivery and functionality in primary T cells. National Institutes of Health.

Ross, C. N., Colman, R. J., & Power, M. (co-PIs). (April 2018 – March 2021). \$2,800,000. Research to improve and standardize marmoset nutrition and dietary husbandry. National Institutes of Health.

Ross, C. N. & Schlesinger, L (co-PIs). (September 2018 – April 2019). \$410,903. Alzheimer's disease and its related dementias (AD/ADRD)-focused administrative supplements for NIH grants that are not focused on Alzheimer's disease. National Institutes of Health.

Ross, C. N. & **Weatherford, D.** (co-PIs). (June 2018 – June 2019). \$50,000. Working memory and attention in aging marmosets. Pepper Center Pilot Grant.

Sheperis, C. J. (December 2020 – December 2021). (\$170,000). Digital Divide Project. Methodist Healthcare Ministries.

Sheperis, C. J. (February 2020 – July 2020). \$28,600. edTPA Pilot Grant. Texas Education Agency.

Sheperis, C. J. (September 2020 – July 2021). \$75,000. RYHT COEHD Improvement Grant. Raise Your Hand Texas Foundation.

Sheperis, C. J. & Griffenberg, W. (October 2020 – December 2022). (\$750,000). Digital Inclusion Scholars. USAA.

Fritts, S., (PI), Castro-Arellano, I., & **Weaver, S.** (co-PIs). (October 2019 – December 2023). \$499,995. Occupancy and distribution of summer bats in Texas. Department of Texas Parks and Wildlife.

Hein, C. (PI), Fritts, S., & **Weaver, S.** (co-PIs). (October 2019 – August 2021). \$500,000. Evaluating deterrent stimuli for increasing species-

specific effectiveness of an advanced ultrasonic acoustic deterrent. U.S. Department of Energy.

Hale, A. (PI), Fritts, S., & **Weaver, S.** (co-PIs). (July 2019 – January 2020). \$175,000. Evaluating deterrent stimuli for increasing species-specific effectiveness of an advanced ultrasonic acoustic deterrent. NextEra Energy Renewables.

Castro-Arellano, I. (PI), **Weaver, S.**, & Nowlin, W. (co-PIs). (October 2017 – May 2020). \$24,000. Ecosystem services and bats: Using stable isotopes to assess range and dietary shifts of an important insectivorous predator, the Brazilian free-tailed bat (*Tadarida brasiliensis*). U.S. Forest Service.

Castro-Arellano, I. (PI), **Weaver, S.**, & Hein, C. (co-PIs). (March 2018 – August 2019). \$207,000. Wildlife impact reduction strategies from wind energy in South Texas. Department of Texas Parks and Wildlife.

Weaver, S. (PI) & Hein, C. (co-PI). (April 2017 – December 2018). \$261,000. Bird and bat post-construction fatality monitoring at the Los Mirasoles Wind Farm in Starr and Hidalgo counties, Texas. EDP Renewables.

Westermann, E. B. (January 2019 – June 2019). \$24,000. J. B. and Maurice C. Shapiro Fellowship. U.S. Holocaust Memorial Museum.

Wise de Valdez, M. (October 31, 2018 – September 30, 2019). \$19,734. Integrated biosurveillance test bed for detecting and predicting emergence of mosquitoes. U.S. Department of Energy, Lawrence Livermore National Laboratory.

Wise de Valdez, M. (June 30, 2018 – December 31, 2018). \$12,049. Sub-award as part of the CDC city mosquito management plan in response to threat of Zika transmission. San Antonio Metropolitan Health District.

Wise de Valdez, M. (June 30, 2017 – June 30, 2018). \$25,000. Sub-award

as part of the CDC city mosquito management plan in response to threat of Zika transmission. San Antonio Metropolitan Health District.

Wise de Valdez, M. (October 31, 2017 – June 30, 2018). \$20,000. Integrated biosurveillance test bed for detecting and predicting emergence of mosquitoes. U.S. Department of Energy, Lawrence Livermore National Laboratory.

Yang, J. (October 2020 – September 2021). \$40,287. New to NSF: Recruiting and retaining students into computing. National Science Foundation.

Yang, J. (PI), **Lodgher, A.**, & **Kim, Y. R.** (Co-PIs). (October 2018 – September 2021). \$249,948. New to NSF: Recruiting and retaining students into computing. National Science Foundation.

INTERNAL GRANTS

Abdel-Rahmen, M. (January 2019 – January 2020). \$5,000. Users' concerns in sharing economy: A text analytics approach.

Abongwa, P. (January 2020 – January 2021). \$10,000. Can natural microbial attenuation of contaminated groundwater in South Bexar County be a solution for safer drinking water?

Bhatt, S. (PI) & **Tawalbeh, L.** (co-PI). (May 2019 – May 2020). \$5,000. A secure cloud-enabled internet of things architecture.

Crook, M. (June 2018 – June 2019). \$5,000. EGF signaling and lipid synthesis: Using RNAseq to determine the effect of overactive signaling on gene expression.

Den, W. (June 2019 – June 2020). \$5,000. Groundwater–surface water interaction and its impact on in-stream ecosystem restoration: Case of the Edwards Aquifer–San Antonio River watersheds.

Erickson, W. (June 2019 – June 2020). \$5,000. Applied research in cognitive aging.

Gillen, K. (January 2018 – December 2018). \$3,350. Latinx Shakespeare: Performance, appropriation, and pedagogy.

Gou, K. (January 2020 – December 2020) \$9,940. Mathematical modeling of pregnant cervix insufficiency.

Han, Q. (January 2019 – December 2020). \$4,688. Sobolev function spaces on unbounded domains having unbounded, coarse boundaries.

Huynh, H. (August 2019 – August 2020). \$5,000. Are humble people healthier? Examining the relationship between humility and physical health.

Jozwiak, M. M. (June 2018 – June 2019). \$5,000. Social skills in PK–8 children.

Kalmbach, KC. (May 2018 – May 2019). \$4,990. Development of a measure to assess moral injury in combat experienced by post 9/11 veterans, part 1.

Kalmbach, KC. (December 2018 – December 2019). \$4,900. Development of a measure to assess moral injury in combat experienced by post 9/11 veterans, part 2.

Kwon, E. (January 2020 – December 2020). \$10,000. Camp Possibility: Motor learning lab for children with disabilities.

Lee S., Elias, V., & Shen, S. (June 2019 – May 2020). \$5,000. Jaguar freshman health and wellness study.

Li, K. (January 2020 – December 2020). \$5,050. The real effect of financial derivatives.

Lim, J. (September 2018 – May 2019). \$5,000. Usage of mobile devices on cognitive function and walking dynamics in obese populations.

Rahman, S. (May 2018 – April 2019). \$3,500. Oil price volatility and the U.S. stock market.

Sanders, A. (June 2019 – June 2020). \$5,000. Brexit, PEACE, and the future of the Northern Ireland Peace.

Santos, A. M. (May 2020 – April 2021). \$10,000. Beyond survival: Trauma studies in the literary borderlands – monograph development.

Smith, J. (April 2019 – April 2021). \$5,000. Free-living activity patterns of persons with lower-extremity amputation.

Valdez-Barillas, R. (June 2019 – June 2020). \$5,000. Characterization of soil

microbes that influence the growth and establishment of a native grass when grown in competition with a non-native invasive grass.

Tawalbeh, L. A. (May 2019 – May 2020). \$5,000. Investigation of the efficiency and security requirements in mobile cloud networked healthcare systems.

Watts, G. W. (April 2018 – April 2019). \$4,697. Replication of a cross-age tutoring intervention for students with learning and emotional–behavioral disabilities.

Watts, G. (PI) & **Davis, M.** (co-PI). (April 2020 – April 2021). \$10,000. Perceptions and experiences of first-generation college students: In the classroom, field, and life.

Weatherford, D. R. (March 2020 – March 2021). \$10,000. How low prevalence targets affect visual search: An eye tracking study.



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