



**Research and Scholarship  
2017-2019**



**Mike O'Brien**

*Provost and Vice President  
for Academic Affairs*

Dear colleagues:

Once again, our faculty members have demonstrated their commitment to making Texas A&M–San Antonio a world-class university, where quality research and creative achievement are part and parcel of everything we do. As I mentioned last year, I cannot imagine an institution of higher learning that doesn't emphasize research and creative activity because it's as much a part of educating undergraduate and graduate students as is lecturing to a class of thirty or holding a seminar discussion.

Our students and their parents are becoming smart consumers of what's being offered at colleges and universities, and they are interested in whether a school consistently places its most valued scholars in front of undergraduates. Great point because it gets at what I believe a great university does: puts the best and the brightest faculty members in the classrooms and labs and gets students involved with what the faculty members are doing. Professors who seek new knowledge through research and creative activity are the most current in their fields of expertise and are able

to assimilate and disseminate the latest information in theory and practice. That's what parents and students want, and that's exactly what we deliver.

As a scientist who is heavily involved in research and publication, I am proud to be both the provost at A&M–San Antonio as well as a faculty member in the history program. Please read through this book so you can see what your colleagues have been up to. I know you'll be impressed.



# Research & Scholarship

Dear Colleagues,

As the vice provost for research and graduate studies at Texas A&M–San Antonio, my goal is to help direct the university’s efforts in accomplishing its research and graduate education goals by providing strategic vision and support to the faculty, staff, and students. Teaching, research, and service are vital to excellence in the provision of best and applied educational experiences for students, and for the professional development of faculty to keep up with emerging methods and innovations.

Our primary mission is to support faculty members in developing excellent research proposals and grant applications and to guide them in the pursuit of their research goals while fulfilling the requirements of research compliance. My passion for teaching, research productivity, and service contributions as a faculty member and an administrator inspire me to guide faculty to pursue quality research and excellent graduate programs. I am looking forward to a great year with many successes in academic and research productivity.



**Vijay Golla**

*Vice Provost for Research &  
Graduate Studies*

*Professor, Department of Science &  
Mathematics*

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## Research & Scholarship



**Mirley Balasubramanya**  
*Dean, College of Arts and Sciences*

Faculty members in the College of Arts and Sciences have maintained a high rate of scholarly productivity during the past three years. Each of the fields in our college is well represented in the contributions for 2017–2019. This is a testament to the enthusiasm and zeal with which our scholars have pursued their work. This book provides a useful introduction to the current research interests of our faculty. Hopefully, they will reach out to colleagues in other disciplines to tackle research questions on the borders and intersections of established disciplines. My best wishes to colleagues as they attain new heights.

### **College of Arts and Sciences Faculty Publications**

*(Texas A&M– San Antonio Faculty in Bold)*

**Bush, W. S., & Tanenhaus, D. S. (Eds.) (2018).** *Ages of anxiety: Historical and transnational perspectives on juvenile justice*. New York: New York University Press.

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**Finley, J. S. (2019).** Pilgrimages and working forests: Envisioning the commons in *The Maine Woods*. In J. Kucich (Ed.), *Rediscovering the Maine woods: Thoreau's legacy in an unsettled land* (pp. 141–167). Amherst: University of Massachusetts Press.

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**Gillen, K.** (2017). *Chaste value: Economic crisis, female chastity, and the production of social difference on Shakespeare's stage*. Edinburgh: Edinburgh University Press.

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Hwang, J., Taylor, R., Cann, C. M., **Golla, V.**, & Gilbert, W. (2019). Assessment of ambient air diesel particulates in fire departments using different exposure metrics: Pilot study. *Fire Safety Journal*, 106, 155–162.

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Wang, Q., **Han, Q.**, & Hu, P. (2019). Quantitative properties of meromorphic solutions to some differential difference equations. *Bulletin of the Australian Mathematical Society, 99*, 250–261.

Chen, W., **Han, Q.**, & Liu, J. (2019). On Fermat Diophantine functional equations, little Picard theorem and beyond. *Aequationes Mathematicae, 93*, 425–432.

**Han, Q.**, & Lü, F. (2019). On the equation  $f^n(z) + g^n(z) = e^{\alpha z + \beta}$ . *Natsional'naya Akademiya Nauk Armenii. Izvestiya. Matematika, 54*, 90–96.

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Nolasco, C., & Vaughn, M. S. (2018). Construing the legality of solitary confinement: Analysis of U.S. federal court jurisprudence. *American Journal of Criminal Justice*. doi: 10.1007/s12103-018-9463-5.

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**Nolasco, C.** (2018). Evolution of electoral integrity in campaign finance laws. *Criminal Law Bulletin*, 55, 123–134.

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**O'Brien M. J., Buchanan, B., & Eren, M. I.** (Eds.) (2018). *Convergent evolution in stone-tool technology*. Cambridge, MA: MIT Press.

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Bentley, R. A., **Ross, C. N.**, & **O'Brien, M. J.** (2018). Obesity, metabolism, and aging: A multiscale approach. *Progress in Molecular Biology and Translational Science*, *155*, 25–42.

Bentley, R. A., & **O'Brien, M. J.** (2017). *The acceleration of cultural change: From ancestors to algorithms*. Cambridge, MA: MIT Press.

**O'Brien, M. J.**, & Buchanan, B. (2017). Cultural learning and the Clovis colonization of North America. *Evolutionary Anthropology*, *26*, 270–284.

Thomas, K. A., Story, B. A., Eren, M. I., Buchanan, B., Andrews, B. N., **O'Brien, M. J.**, & Meltzer, D. J. (2017). Explaining the origin of fluting in North American Pleistocene weaponry. *Journal of Archaeological Science*, *81*, 23–30.

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**Rosen, R. A.**, Cifuentes, L. A., Fischer, J., Marquise, H. J., & Tracy, C. (2018). Water security for Texas: A post-secondary education pathway for the water workforce. *Texas Water Journal*, 9, 120–128.

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**Rosen, R. A.**, Mohtar, R., Cifuentes, L. A., Frayser, S., Hustvedt, G., Patrick, W., ...Wall, J. (2017). The route to water security for Texas: The 2015–2016 Texas water roadmap forums. *Texas Water Journal, 8*, 116–123.

**Rowe, B. I.** (2019). Get out of my driveway! *Collins v. Virginia* protects curtilage from being trampled by the automobile exception. *Criminal Law Bulletin, 55*, 151–178.

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**Rowe, B. I.**, & McCann, W. (2018). Runaway jury: An analysis of state laws concerning juror impeachment. *Criminal Justice Policy Review*. doi: 10.1177/0887403418805150.

**Rowe, B. I.**, McCann, W., & Hemmens, C. (2018). The invisible scholar: Authors of legal scholarship in criminology and criminal justice journals. *Journal of Criminal Justice Education*. doi: 10.1080/10511253.2018.1426776.

**Rowe, B. I.** (2017). How would you like to die? *Glossip v. Gross* deals blow to abolitionists. *Prison Journal, 98*, 83–103.

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Westermann, E. B. (2018). Drinking rituals, masculinity, and mass murder in Nazi Germany. *Central European History*, 51, 367–389.

Westermann, E. B. (2018). Paramilitary police auxiliaries and counterinsurgency warfare: The failure of the direct approach in the Nazi East, 1941–1944. In D. Stoker, & E. B. Westermann (Eds.), *Expeditionary police advising and militarization: Building security in a fractured world* (pp. 53–75). Solihull, UK: Helion.

Westermann, E. B. (2018). “Shot while trying to escape”: Procedural legality and state sanctioned killing in Nazi Germany. *Dapim: Studies on the Holocaust*, 32, 93–111.

Westermann, E. B. (2018). Relegated to the backseat: Farm gate and the failure of the air advisory effort in South Vietnam, 1961–1963. In D. Stoker, & E. B. Westermann (Eds.), *Air Force advising and assistance: Developing airpower in client states* (pp.163–186). Solihull, UK: Helion.

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Westermann, E. B., & Stoker, D. (2018). *Expeditionary police advising and militarization: Building security in a fractured world*. Solihull, UK: Helion.

Westermann, E. B. (2017). Hitler’s *Ostkrieg* and the Indian Wars: Comparing military strategies of conquest and annihilation. In L. Faulkner Rossi, & W. Lower (Eds.), *Lessons and legacies XII: New directions in Holocaust research and education* (pp. 359–380). Evanston: Northwestern University Press.

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**Westermann, E. B., & Krondorfer, B.** (2017). Soldiering: Men. In A. Petö, (Ed.), *Gender: War* (pp.19–35). Farmington Hills, MI: Macmillan.

Martin, E., Borucki, M. K., Thissen, J., Garcia-Luna, S., Hwang, M., **Wise de Valdez, M.**, ... Frank, M. (2019). Mosquito-borne viruses and insect-specific viruses revealed in field-collected mosquitoes by monitoring tool adapted from a microbial detection array. *Applied and Environmental Microbiology*. doi: 10.1128/AEM.01202-19.

Skinner, K., & **Wise de Valdez, M. R.** (2018). Survey of intestinal helminths from feral hogs in Texas. *Southwestern Naturalist*. doi.org/10.1894/0038-4909-63-2-91.

**Wise de Valdez, M. R.** (2017). Mosquito species distribution across urban, suburban, and semirural residences in San Antonio, Texas. *Journal of Vector Ecology*, 42, 184–188.



## Research & Scholarship



**Kathleen Welsh**

*Dean, College of Business*

College of Business faculty have had a diverse publication record over the last few years. Research interests include case studies, book chapters, and applied peer-reviewed research across business and computing disciplines to include accounting, finance, international, innovation, entrepreneurship, marketing, information security, economics, and leadership.

With the Association to Advance Collegiate Schools of Business accreditation self-study underway, faculty in the college are stepping up both the rigor and the impact of their research through a collaborative, team-based approach to collective research. This innovative approach will help develop specific areas of research that will elevate the expertise of faculty at A&M-San Antonio on a global stage.

### **College of Business Faculty Publications**

*(Texas A&M–San Antonio Faculty in Bold)*

**Alsmadi, I.** (2019). *The NICE cyber security framework: Cyber security intelligence and analytics*. New York: Springer.

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**Carl Sheperis**  
*Dean, College of Education &  
Human Development*

The faculty members in the College of Education and Human Development are committed to advancing research in education and related fields. We are involved in numerous research initiatives that directly impact educational, community, and societal issues on local, regional, national, and global levels. We regularly publish our scholarly work in national and international journals and provide presentations at professional conferences. We are a diverse faculty body with a wide variety of research expertise in areas such as early childhood education, bilingual education, special education, literacy, the use of technology in the classroom, kinesiology, mental health counseling, school counseling, and educational leadership. Much of the scholarly work that emanates from our College is conducted in cooperation with community, business, and educational partners and is designed to inform and positively impact organizational practices. We invite you to reach out to us for partnership, consultation, and collaboration opportunities.

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**Webb, C. L. & Kapavik, R. R.** (2017). Motivated by the movies: How Hollywood influences preservice teachers' pedagogical knowledge. *International Journal of Education and Human Developments, 3*, 10–13.

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.** (2019). First and second language learning theories. In *Second language education for teacher candidates & professionals* (pp.1–12). Dubuque, IA: Kendall Hunt.



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- Wu, H. (2019). Identifying English learners (ELs). In *Second language education for teacher candidates & professionals* (pp.13–20). Dubuque, IA: Kendall Hunt.
- Wu, H. (2019). Components of language. In *Second language education for teacher candidates & professionals* (pp.31–44). Dubuque, IA: Kendall Hunt.
- Wu, H. (2019). Methods for teaching English learners. In *Second language education for teacher candidates & professionals* (pp.45–56). Dubuque, IA: Kendall Hunt.
- Wu, H. (2019). Language processes: Listening and speaking. In *Second language education for teacher candidates & professionals* (pp.57–61). Dubuque, IA: Kendall Hunt.
- Wu, H. (2019). Experiential learning with English learners. In *Second language education for teacher candidates & professionals* (pp.69–78). Dubuque, IA: Kendall Hunt.
- Wu, H. (2019). Technology in second language education. In *Second language education for teacher candidates & professionals* (pp.109–116). Dubuque, IA: Kendall Hunt.
- Wu, H. (2019). Parental and community involvement, advocacy primary language support. In *Second language education for teacher candidates & professionals* (pp.117–122). Dubuque, IA: Kendall Hunt.
- Wu, H., & Guerra, J. (2017). Examination of pre-service teacher's training through tutoring approach. *Journal of Education and Training Studies*, 5, 1–9.

## Research & Scholarship

### Staff Publications

*(Texas A&M–San Antonio Staff in Bold)*



**Tim Gritten**

*Executive Director, Library  
& Special Collections*

Our staff share their creativity and expertise through a variety of professional venues, which range from publishing peer-reviewed articles, providing conference presentations, and teaching webinars, to holding office in national, regional, and state associations.

**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.** (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: Information Age.

**Timm, S., & Morris, P.** (2017). Let me check my messages: One academic library's story of ILLiad and text message notifications. *Journal of Interlibrary Loan, Document Delivery & Electronic Reserve*. doi:10.1080/1072303X.2016.1268554.



# Internal and External Grants

## Research & Scholarship

### **Internal Grants**

*(Research Council Grants)*

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

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

**Huynh, H.** (August 2019 – July 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.** (June 2018 – December 2019). \$4,990. Development of a measure to assess moral injury in combat experienced post 9/11 veterans, part 1.

**Kalmbach, KC.** (December 2018 – December 2019). \$4,986. Development of a measure to assess moral injury in combat experienced post 9/11 veterans, part 2.

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

**Rahman, S.** (May 2018 – April 2019). \$3500. Oil price volatility and the U.S. stock market.

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

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

## Research & Scholarship

### External Grants

**Gillen, K.** (May 2019 – July 2019). \$7,000. Race, Rome, and early modern drama: The whitening of England and the Classical World. Short-term research fellowship, Huntington Library.

**Gillen, K.** (July 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.

**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 – January 2020). \$25,000. Hola STEM middle school girls project. HOLT CAT.

**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.

**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.

## Research & Scholarship

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.

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.

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

**Wise de Valdez, M.** (Oct. 31, 2018 – Sept. 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.** (Oct. 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.

**Wise de Valdez, M.** (July 7 2016 – June 30, 2017). \$20,000. Integrated biosurveillance test bed for detecting and predicting emergence of mosquitoes. U.S. Department of Energy, Lawrence Livermore National Laboratory.

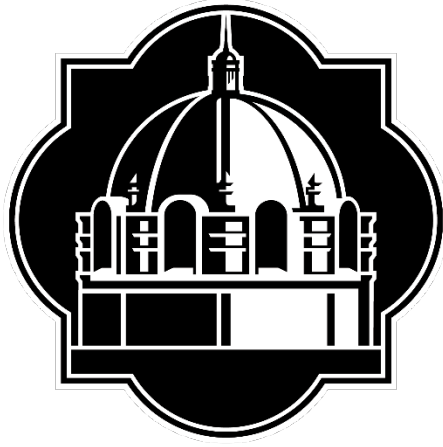
**Wise de Valdez, M.** (June 30, 2018 – Dec. 31, 2018). \$12,049. Sub award as part of the CDC City Mosquito management plan in response to threat of Zika transmission. San Antonio Metropolitan Health District.

**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.

## Research & Scholarship

**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.

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