



TEXAS A&M UNIVERSITY School of Public Health Annual Research Report 2021



Prepared by the Texas A&M University School of Public Health Office of Research

The Office of Research is committed to providing efficient and effective administration and support for the research activities of the faculty and staff of the Texas A&M University School of Public Health.

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Annual Research Overview

Texas A&M University School of Public Health

Our Vision

Stronger Communities Healthy
People
Our Tradition

Our Mission

The School of Public Health is committed to transforming health through interdisciplinary inquiry, innovative solutions, and development of leaders through the Aggie tradition of service to engage diverse communities worldwide.

Our Values

Accountability:

Meaningful Impact

Global and diverse:

Our research crosses borders

Generosity:

Through selfless service

Integrity:

In everything we do

Excellence:

In teaching, research, service, and practice

Social Justice

Professionalism:

Leaders paving the way

Honor:

Respect for all

Research is an integral part of the mission of the Texas A&M School of Public Health (SPH). SPH faculty, staff, and students are actively engaged in a diverse array of sponsored and unsponsored research and service projects. This report summarizes SPH sponsored projects, scholarly publications, presentations, and faculty research interests for 2021

Highlights: Several of our faculty members achieved accolades within the state and nation.

- ▶ Dean Shawn Gibbs was appointed to the National Academies of Sciences, Engineering, and Medicine Committee on Respiratory Protection for the Public and Workers without Respiratory Protection Programs at their Workplaces.
- ▶ Dr. Taehyun Roh received the 2020 Houston Methodist Cancer Center Research Innovation Award for, “Exploration of Early-Stage Biomarkers of Urothelial Cell.
- ▶ Dr. Virender Sharma ranked 325 globally among all researchers across 22 fields and 23rd globally in the “Environmental Science” sub-field!

SPH researchers continued to secure highly-competitive extramural research funding from federal and state governments, foundations, and other sources. A categorical summary of SPH funding and scholarly output is provided below.

FY 21 2021 SPH Research Statistics	
Research Expenditures	\$ 7,436,815
Active Grants & Contracts	117
Funding Sources	
Federal	71
State	19
Internal (TAMU/SPH)	7
Foundations/Private	9
Contracts	11
Publications	225
Presentations	64

Texas A&M University School of Public Health Research Sponsors

American Diabetes Association

Cancer Prevention and Research
Institute of Texas

Coastal Bend Health Education
Center

DHHS-Administration for
Community Living

DHHS-Centers For Disease Control
and Prevention

DHHS-Health Resources and
Services Administration

DHHS-Office of the Assistant
Secretary for Preparedness and
Response

Department of Veterans Affairs

Environmental Protection Agency

Health Care Service Corporation

HealthCore Inc.

Hogg Foundation

Houston Methodist Cancer Center

Houston Methodist Hospital

International Atomic Energy
Agency

National Academies

National Institutes of Health

National Network of Public Health
Institutes

National Science Foundation

Robert Wood Johnson Foundation

The Network for Public Health
Law


Texas Alzheimer's Research and
Care Consortium

Texas Department of State Health
Services

Texas Health & Human Services
Commission

USDA-National Institute of Food
And Agriculture

Walmart Foundation



57 new external grants
and contracts totaling
\$12,020,102
were awarded to SPH
researchers in 2021



SPH Research Highlights

Psychological Measurement Development for Increasing Exposure to Nature

Social Cognitive Theory hypothesizes that human behavior is determined by cognitive, behavioral and environmental factors. Jay Maddock, PhD, FAAHB is leading a study on identifying psychological variables to develop evidence-based interventions.



Sharma Receives National Science Foundation Grant

Virender Sharma, PhD and his colleague at Georgia Tech University have been awarded a National Science Foundation (NSF) grant to study the multi-oxidant systems that involve peroxy acids (POAs) and metals for application in water treatment.



Why Do COVID-19 Statistics Vary Significantly from State to State in Mexico?

Genny Carrillo, MD, ScD, associate professor in the Department of Environmental and Occupational Health along with researchers from Marista University in Mexico, investigated incidence, hospitalization and mortality related to COVID-19 among the 32 states within Mexico. The results, which were published in the *International Journal of Environmental Research and Public Health*, used data on both confirmed and suspected cases of COVID-19 in Mexico obtained from the Mexico General Council of Epidemiology.

Guiding Efforts to Improve Physical Activity Resources Along the Texas-Mexico Border

Luis Gomez and Joseph Sharkey, PhD along with faculty from Baylor University studied physical activity resources in low-income and underserved rural communities in Hidalgo County, TX. Their study, funded by the United States Department of Agriculture National Institute of Food and Agriculture and published in the journal *Health and Place*, developed a new assessment tool to better evaluate and prioritize physical activity resources in areas where diabetes and obesity are rampant.



Research Team Uses Multidisciplinary Approach to Help Reduce Human Error Within Petrochemical, Oil, Gas Industries

S. Camille Peres, PhD, and a team of multidisciplinary researchers are using a National Science Foundation grant to address issues in current petrochemical and oil and gas industry procedures.



COVID-U

Dr. Fischer lead a clinical investigation funded by the National Institute of Health, studying the efficacy of the Moderna COVID-19 vaccine in young adults and its effects on subsequent infection, viral load, and transmission in the Texas A&M University community.



The background features a dark blue field with a glowing, semi-transparent molecular or network structure. This structure consists of interconnected nodes of varying sizes and colors (light blue, cyan, and white) connected by thin lines. The nodes are arranged in a somewhat hexagonal lattice pattern. On the right side, there is a large, dark red, angular geometric shape that overlaps the blue background.

Centers & Programs

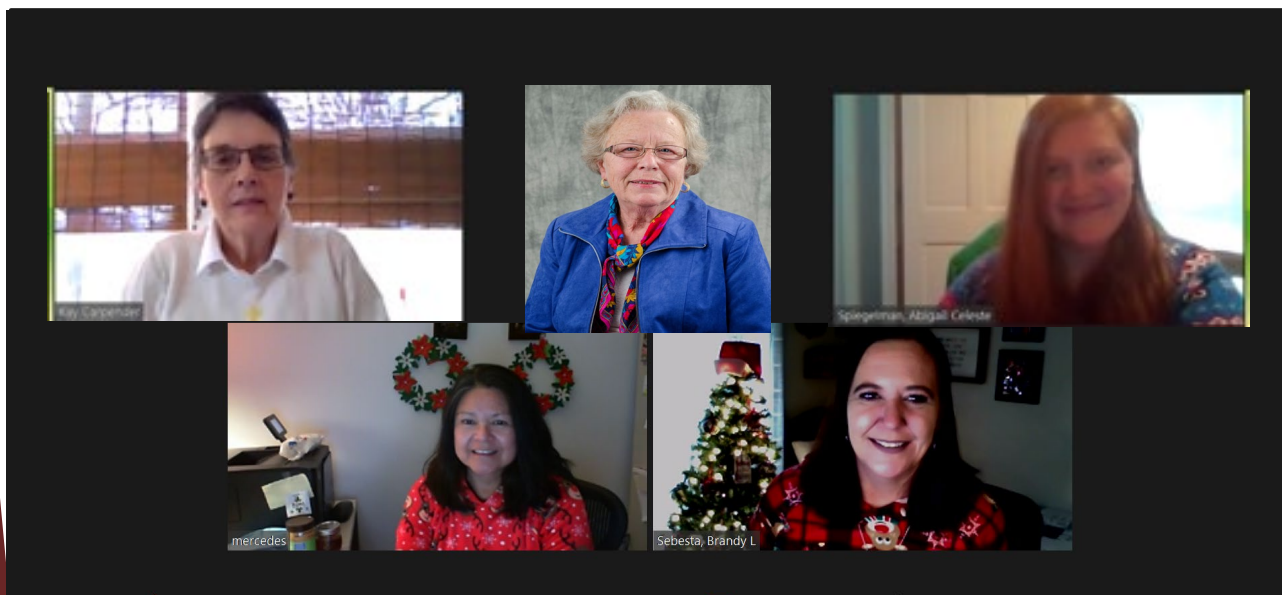
Center for Community Health Development

The Center for Community Health Development (CCHD) was formed to establish a research, education, and experience base for improving population health status in a cost-effective manner. The Center also provides research, education, and training experience for master's and doctoral students of the Texas A&M University School of Public Health, the Texas A&M University Health Science Center, and The Texas A&M University System.



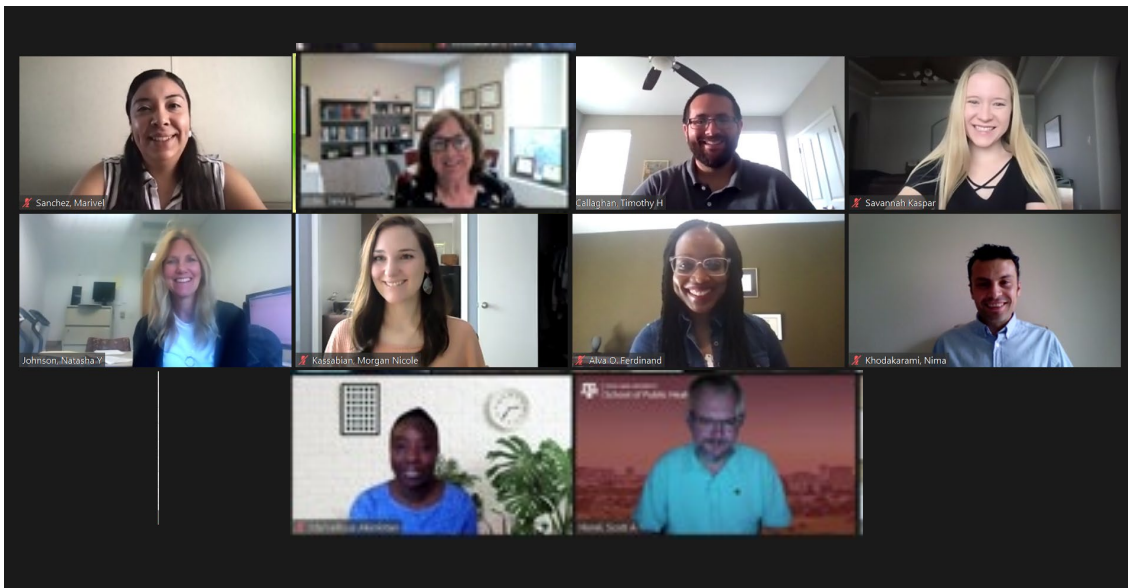
USA Center for Rural Public Health Preparedness

The USA Center for Rural Public Health Preparedness is designed to ensure public health professionals are ready to respond to threats to the nation's public health. This Center at the Texas A&M University School of Public Health is the only center with a specific rural focus on supporting and developing the skills and competencies of emergency responders in rural areas of the United States.



Southwest Rural Health Research Center

The Southwest Rural Health Research Center (SRHRC), established in 2000, is one of only nine federally-funded research centers by the Health Resources and Services Administration's Federal Office of Rural Health Policy. The Center focuses on conducting policy-relevant research on meeting the needs of special rural populations, minority populations and health disparities (including border populations), and rural systems building.



Ergonomics Center

The mission of the Texas A&M Ergonomics Center is to help industry and healthcare partners increase their competitiveness by improving worker performance, reducing workplace injuries and illnesses, and designing unique products and applications to combat the negative impacts of aging and obesity.



Center for Population Health and Aging

The Center for Population Health and Aging (CPHA) promotes population health and successful aging through innovations in research, education, and practice that examines social, behavioral, economic, environmental, and technological solutions linking academic and real-world clinical and community settings. Research focuses on evidence-based programs, health communities, and interactions between health, aging, and technology.



Texas A&M School of Public Health Programs

Asthma Research and Education

The Program on Asthma Research and Education (PARE) facilitates environmental research and education focused on asthma, addressing underserved and minority populations.

Director: Genny Carrillo, MD, ScD



Environment and Sustainability

The Program on Environment and Sustainability (PES) goals are to develop and lead a vibrant Environmental and Sustainability network and to build a model research program with a multi-disciplinary approach that also encompasses education and outreach.

Director: Virender Sharma, PhD



Global Health Research

The Program on Global Health Research engages in cutting-edge transdisciplinary research and teaching that reduces the burden on disease and improves lives in international settings.

Director: Brian Colwell, PhD



Texas A&M School of Public Health Programs (cont.)

Health Law & Policy

The Program on Health Law & Policy aims to become a nationally recognized center noted for its rigorous analysis of state health laws and in-depth training of empirical health law researchers, analysts, and policy advocates.

Director: Cason Schmit, JD



Health & Nature

The Program on Health & Nature facilitates research and educational activities focused on the relationship between human health and nature. Research foci span from the community, the role of industry and the health care system. It also serves as the Texas A&M home for the joint Center for Health and Nature, a collaborative effort between Houston Methodist Hospital, Texas A&M University and Texan by Nature.

Co- Directors: Jay Maddock, PhD, FAAHB & Bitia Kash, PhD, MBA, FACHE



Awards & Recognition



2021 Faculty Research Excellence Award



2021 Faculty Excellence Award Recipient
Gang Han

Dr. Gang Han is a biostatistician who has collaborated on projects totaling over \$18 million and is author or co-author on more than 90 peer-reviewed articles. His research focuses on statistical computing, Bayesian analysis, HIV viral load modeling, survival analysis methods in cancer research, design and analysis of Phase I/II clinical trials and translational studies, and statistical methods in the development of personalized medicine

2021 Student Research Excellence Awardees

Doctoral Student Awardee

Eniola Olatunji

PhD, Health Services Research

Advisor: Dr. Robert Ohsfeldt

“Who Receives Influenza Vaccinations at the Pharmacy? An Analysis of the Texas Behavioral Risk Factor Surveillance System”



Masters Student Awardee

Wisdom Osioma

MPH, Environmental Health

Advisor: Dr. Itza Mendoza-Sanchez

“Addressing the knowledge gap in predictors of Methicillin-resistant and other beta-lactamase resistant infection hospitalizations in Texas”



16th Annual Jean Brender Student Research Poster Awards: Graduate

1st Place: Nishat Hasan, MPH Student

Phthalate Exposure and Respiratory Diseases
Among Adults and Children: the US NHANES
2007 - 2016



2nd Place: Maria Roque, DrPH Student

Mapping Interventions for Long-Acting
Reversible Contraceptive Use to the
Socioecological Model



3rd Place: Ayobami Ogunsola, MPH Student

Geospatial Analysis of the Disparity in
COVID-19 Testing Sites in Texas



Research Publications

Research Publications

1. *Ade N, **Peres SC**. A Review of Human Reliability Assessment Methods for Proposed Application in Quantitative Risk Analysis of Offshore Industries. *International Journal of Industrial Ergonomics* 2021;87:103238.
2. Adepoju OE, Chae M, Woodard L, Smith KL, Herrera L, **Han D**, Howard DL, Dobbins J, **Ory M**. Correlates of Social Isolation among Community-Dwelling Older Adults during the COVID-19 Pandemic. *Frontiers in Public Health* 2021:2030.
3. Adepoju OE, **Han D**, Chae M, Smith KL, Gilbert L, Choudhury S, Woodard L. Health Disparities and Climate Change: The Intersection of Three Disaster Events on Vulnerable Communities in Houston, Texas. *International Journal of Environmental Research and Public Health* 2022;19(1):35.
4. Adepoju O, Howard D, Smith K, Herrera L, **Han D**, Woodard L. Correlates of Social Isolation among Minority Older Adults during the COVID-19 Pandemic. *Innovation in Aging* 2021;5(Supplement_1):294-295.
5. Ajayi KV, **Ma P**, Akinlotan M. Commentary: COVID-19 and the Vulnerability of Single Mothers in Institutions of Higher Education. *Family and Community Health* 2021;44(4):235-237.
6. *Akinlotan MA, **Bolin JN**, Weston C, Ojinnaka C, Helduser J, Lichorad A. Mammography Screening Beliefs and Knowledge among a Multi-Ethnic Sample of Low-Income, Uninsured Women. *Journal of Health Care for the Poor and Underserved* 2021;32(3):1514-1530.
7. *Akinlotan MA, Primm K*, **Bolin JN**, Ferdinand Cheres AL, Lee J, **Callaghan T**, **Ferdinand AO**. Racial, Rural, and Regional Disparities in Diabetes-Related Lower-Extremity Amputation Rates, 2009-2017. *Diabetes Care* 2021;44(9):2053-2060.
8. Alam MT, Echeverria SE, **DuPont-Reyes MJ**, Vasquez E, Murillo R, Gonzalez T, Rodriguez F. Educational Attainment and Prevalence of Cardiovascular Health (Life's Simple 7) in Asian Americans. *International Journal of Environmental Research and Public Health* 2021;18(4):1480.
9. Al-Ateeqi S, Al-Musawi LI, **Sharma VK**, Abdullah M, Ma X. Plant Communities and Potential Native Phytoremediator Species in Petroleum hydrocarbon-polluted Desert Systems. *Land Degradation and Development* 2021.
10. Aly NA, Casillas G, Luo Y, **McDonald TJ**, Wade TL, Zhu R, Newman G, Lloyd D, Wright FA, Chiu WA. Environmental Impacts of Hurricane Florence Flooding in Eastern North Carolina: Temporal Analysis of Contaminant Distribution and Potential Human Health Risks. *Journal of Exposure Science and Environmental Epidemiology* 2021;31(5):810-822.
11. Ankarcrona V, **Zhao H**, Jacobsson B, Brismar Wendel S. Obstetric Anal Sphincter Injury After Episiotomy in Vacuum Extraction: An Epidemiological Study using an Emulated Randomised Trial Approach. *BJOG: An International Journal of Obstetrics & Gynaecology* 2021;128(10):1663-1671.
12. Arnot SP, **Han G**, Fortino J, Han D, Fowler G, Vetto JT. Utility of a 31-Gene Expression Profile for Predicting Outcomes in Patients with Primary Cutaneous Melanoma Referred for Sentinel Node Biopsy. *The American Journal of Surgery* 2021;221(6):1195-1199.
13. Baek J, Lin S, **Bolin JN**, **Ory M**, Flores S, **Kash BA**. Factors Affecting Adoption of a Technology-Based Tool for Diabetes Self-Management Education and Support among Adult Patients with Type 2 Diabetes in South Texas. *The Science of Diabetes Self-Management and Care* 2021;47(3):189-198.

Research Publications

14. Baghurst T, Lackman J, Drewson S, Spittler P, Turcott R, **Smith ML**, Illescas-Marquez G, Boolani A. A Hot Mess: Basketball Coaches' Perceptions of Ability Versus Actual Performances of their Athletes. *Acta Universitatis Carolinae - Kinanthropologica* 2021;57(1):11-25.
15. Baum JC, Feng M, Guo B, Huang C, **Sharma VK**. Generation of Iron (IV) in the Oxidation of Amines by Ferrate (VI): Theoretical Insight and Implications in Oxidizing Pharmaceuticals. *ACS ES&T Water* 2021;1(8):1932-1940.
16. *Behlen JC, Lau CH, Li Y*, Dhagat P, Stanley JA, Rodrigues Hoffman A, Golding MC, Zhang R, **Johnson NM**. Gestational Exposure to Ultrafine Particles Reveals Sex-and Dose-Specific Changes in Offspring Birth Outcomes, Placental Morphology, and Gene Networks. *Toxicological Sciences* 2021;184(2):204-213.
17. **Benden M**, Mehta R, Pickens A, Harp B, **Smith ML**, Towne SD, **Peres SC**. Health-Related Consequences of the Type and Utilization Rates of Electronic Devices by College Students. *BMC Public Health* 2021;21(1):1-12.
18. Bergeron CD, Boolani A, Jansen EC, **Smith ML**. Practical Solutions to Address COVID-19-Related Mental and Physical Health Challenges among Low-Income Older Adults. *Frontiers in Public Health* 2021:929.
19. Bergeron CD, Goltz HH, Boolani A, **Smith ML**. Factors Associated with Four Sexual Behaviors among Married/Partnered Women Ages 60 and Older in the United States. *Sexes* 2021;2(4):445-451.
20. Bergeron C, John J, Sribhashyam M, Odonkor G, Oloruntoba O, Merianos A, Horel S, **Smith ML**. County-Level Characteristics Driving Malnutrition Death Rates among Older Adults in Texas. *The Journal of Nutrition, Health and Aging* 2021;25(7):862-868.
21. *Beverly J, Giannouchos T, **Callaghan T**. Examining Frequent Emergency Department use among Children and Adolescents with Autism Spectrum Disorder. *Autism* 2021;25(5):1382-1394.
22. Bisognano J, Schneider JE, Davies S, **Ohfeldt RL**, Galle E, Stojanovic I, Deering TF, Lindenfeld J, Zile MR. Cost-Impact Analysis of Baroreflex Activation Therapy in Chronic Heart Failure Patients in the United States. *BMC Cardiovascular Disorders* 2021;21(1):1-9.
23. Boolani A, Yager C, Reid J, Lackman J, **Smith ML**. Correlates of Depressive Mood among Graduate-Level Allied Health Students: An Exploratory Study Examining Trait Energy and Fatigue. *Journal of American College Health* 2021:1-12.
24. Bosetti R, Tabatabai L, Naufal G, Menser T, **Kash BA**. Comprehensive Cost-Effectiveness of Diabetes Management for the Underserved in the United States: A Systematic Review. *PLoS one* 2021;16(11):e0260139.
25. Bowman A, Knack JM, Barry AE, Merianos AL, Wilson KL, **McKyer ELJ**, **Smith ML**. Self-Perceptions and Factors Associated with being Put Down at School among Middle and High School Students. *The Journal of School Nursing* 2021;37(4):270-279.
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27. **Callaghan T**, Haeder SF, Sylvester S. Past Experiences with Surprise Medical Bills Drive Issue Knowledge, Concern and Attitudes Toward Federal Policy Intervention. *Health Economics, Policy and Law* 2021:1-34.

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29. *Callaghan T, Lueck JA, Trujillo KL, Ferdinand AO. Rural and Urban Differences in COVID-19 Prevention Behaviors. *The Journal of Rural Health* 2021;37(2):287-295.
30. Callaghan T, Moghtaderi A, Lueck JA, Hotez P, Strych U, Dor A, Fowler EF, Motta M. Correlates and Disparities of Intention to Vaccinate Against COVID-19. *Social Science and Medicine* 2021(272):113638.
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32. Camargo KM, Foster M, Buckingham B, McDonald TJ, Chiu WA. Characterizing Baseline Legacy Chemical Contamination in Urban Estuaries for Disaster-Research through Systematic Evidence Mapping: A Case Study. *Chemosphere* 2021;281:130925.
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39. Choi H, Chatterjee P, Coppin JD, Martel JA, Hwang M, Jinadatha C, Sharma VK. Current Understanding of the Surface Contamination and Contact Transmission of SARS-CoV-2 in Healthcare Settings. *Environmental Chemistry Letters* 2021;19(3):1935-1944.
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42. Courtemanche C, Fazlul I, Marton J, Ukert B, Yelowitz A, Zapata D. The Affordable Care Act's Coverage Impacts in the Trump Era. *INQUIRY: The Journal of Health Care Organization, Provision, and Financing* 2021;58:00469580211042973.

Research Publications

43. Devereaux C, Yager CA, Pickett AC, **Smith ML**, Martin J, Boolani A. Predictors of Feelings of Anxiety in Graduate Allied Health Students-an Exploratory Study. *Journal of Allied Health* 2021;50(2):73E-77E.
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45. **Dixon BC**, **Fischer RSB**, **Zhao H**, O'Neal CS, Clugston JR, **Gibbs SG**. Contact and SARS-CoV-2 Infections among College Football Athletes in the Southeastern Conference during the COVID-19 Pandemic. *JAMA Network Open* 2021;4(10):e2135566-e2135566.
46. **DuPont-Reyes MJ**. Leveraging Latinx and Spanish-Language Media to Achieve Mental Health Equity. *Psychiatric Services* 2021:appi.ps. 202100147.
47. **DuPont-Reyes MJ**, Villatoro AP, Phelan JC, Painter K, Barkin K, Link BG. School Mental Health Curriculum Effects on Peer Violence Victimization and Perpetration: A Cluster-Randomized Trial. *Journal of School Health* 2021;91(1):59-69.
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53. Enid Zambrana R, Amaro G, Butler C, **DuPont-Reyes M**, Parra-Medina D. Analysis of Latina/o Sociodemographic and Health Data Sets in the United States from 1960 to 2019: Findings Suggest Improvements to Future Data Collection Efforts. *Health Education & Behavior* 2021;48(3):320-331.
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55. *Fan Q, Roque M, Nuzhath T, Hossain MM, Jin X, Aggad R, Myint WW, Zhang G, **McKyer E**, **Ma P**. Changes in Levels and Determinants of Maternal Health Service Utilization in Ethiopia: Comparative Analysis of Two Rounds Ethiopian Demographic and Health Surveys. *Maternal and Child Health Journal* 2021;25(10):1595-1606.
56. Fawkes L, Gonzales BV, Klumb K, Yeboah-Agyapong C, **Sansom GT**. Determination of the Presence and Concentration of Heavy Metals found in Crumb Rubber Mulch in Bryan-College Station Metropolitan Area Parks. *Texas Public Health Journal* 2021;73(2).

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57. Fawkes L, Sansom GT. Preliminary Study of Lead-Contaminated Drinking Water in Public Parks—An Assessment of Equity and Exposure Risks in Two Texas Communities. *International Journal of Environmental Research and Public Health* 2021;18(12):6443.
58. Feng M, Gao R, Staack D, Pillai SD, Sharma VK. Degradation of Perfluoroheptanoic Acid in Water by Electron Beam Irradiation. *Environmental Chemistry Letters* 2021;19(3):2689-2694.
59. Flanagan MW, Goltz HH, Henson JW, Smith ML. Associations of Practical, Emotional, and Physical Problems with Psychosocial Distress among Cancer Patients. *Journal of Psychosocial Oncology* 2021;40(1):98-114.
60. Flores B, Ramírez E, Moncada A, Salinas N, Fischer RSB, Hernández C, Mora-Sánchez B, Sheleby-Elías J, Jirón W, Balcázar J. Antimicrobial Effect of Moringa Oleifera Seed Powder Against Vibrio Cholerae Isolated from the Rearing Water of Shrimp (Penaeus Vannamei) Postlarvae. *Letters in Applied Microbiology* 2021.
61. Flores B, Sheleby-Elias J, Pérez-Sánchez T, Fischer RSB, Múzquiz J, Fuertes H, Halaihel N, Jirón W, Duttmann C. Leptospira Spp in Rodents from Peridomestic Sites in Endemic Regions of Nicaragua. *EcoHealth* 2021;17(4):469-476.
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63. Fuller DT, Smith ML, Boolani A. Trait Energy and Fatigue Modify the Effects of Caffeine on Mood, Cognitive and Fine-Motor Task Performance: A Post-Hoc Study. *Nutrients* 2021;13(2):412.
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65. *Giannouchos TV, Ferdinand AO, Ilangovan G, Ragan E, Nowell WB, Kum H-C, Schmit CD. Identifying and Prioritizing Benefits and Risks of using Privacy-Enhancing Software through Participatory Design: A Nominal Group Technique Study with Patients Living with Chronic Conditions. *Journal of the American Medical Informatics Association* 2021;28(8):1746-1755.
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68. *Giannouchos TV, Ukert B, Vozikis A, Steletou E, Souliotis K. Informal Out-of-Pocket Payments Experience and Individuals' Willingness-to-Pay for Healthcare Services in Greece. *Health Policy* 2021;125(6):693-700.
69. *Giannouchos TV, Washburn DJ, Gary JC, Foster MJ. Frequent Emergency Department use in the Paediatric Population: A Systematic Literature Review. *Journal of Evaluation in Clinical Practice* 2021;27(1):193-203.
70. *Giannouchos T, Gary JC, Anyatonwu S, Kum H-C. Emergency Department Utilization by Adolescents Experiencing Homelessness in Massachusetts. *Medical Care* 2021;59:S187-S194.
71. Gorman DM. Misclassification of Selective Outcome Reporting Bias in Kelly Et Al. (2020). *Alcohol and Alcoholism*.
72. Gorman DM. Selective Reporting of Results in a Systematic Review: A Critique of Ballester Et Al. (2021). *Journal of Evidence-Based Social Work* 2021;18(6):663-666.

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Research Publications

187. Stoler J, Miller JD, Brewis A, Freeman MC, Harris LM, Jepson W, Pearson AL, Rosinger AY, Shah SH, Staddon C, Carrillo G. Household Water Insecurity Will Complicate the Ongoing COVID-19 Response: Evidence from 29 Sites in 23 Low-and Middle-Income Countries. *International Journal of Hygiene and Environmental Health* 2021;234:113715.
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190. *Strasma AK, Worrall H, Vangala C, Cabrera RMS, Mandayam SA, Murray KO, Fischer RS. Urinary Findings among Adults and Children in a Region of Nicaragua Endemic for Mesoamerican Nephropathy. *Kidney International Reports* 2021.
191. *Subramanian S, Han G, Olson N, Leong SP, Kashani-Sabet M, White RL, Zager JS, Sondak VK, Messina JL, Pockaj B. Regression is significantly Associated with Outcomes for Patients with Melanoma. *Surgery* 2021;170(5):1487-1494.
192. *Subramanian S, Han G, Olson N, Leong SP, Kashani-Sabet M, White RL, Zager JS, Sondak VK, Messina JL, Pockaj B. Regression in Melanoma is significantly Associated with a Lower Regional Recurrence Rate and Better Recurrence-Free Survival. *Journal of Surgical Oncology* 2021.
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194. Suyamud B, Lohwacharin J, Yang Y, Sharma VK. Antibiotic Resistant Bacteria and Genes in Shrimp Aquaculture Water: Identification and Removal by Ferrate (VI). *Journal of Hazardous Materials* 2021;420:126572.
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196. Tong R, Zhang P, Yang Y, Zhang R, Sun X, Ma X, Sharma VK. On Line Continuous Chemical Synthesis of Ferrate (VI): Enhanced Yield and Removal of Pollutants. *Journal of Environmental Chemical Engineering* 2021;9(6):106512.
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Research Publications

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200. Vahidy F, Jones SL, Tano ME, Nicolas JC, Khan OA, Meeks JR, Pan AP, Menser T, Sasangohar F, Naufal G, Sostman H, Nasir K, **Kash BA**. Rapid Response to Drive COVID-19 Research in a Learning Health Care System: Rationale and Design of the Houston Methodist COVID-19 Surveillance and Outcomes Registry (CURATOR). *JMIR Medical Informatics* 2021;9(2):e26773.
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210. Woodruff S, Bowman AO, Hannibal B, **Sansom GT**, Portney K. Urban Resilience: Analyzing the Policies of US Cities. *Cities* 2021;115:103239.
211. Wu K, Alegria R, Gonzalez J, Hu H, Wang H, Page R, Robbins-Furman P, **Ma P**, Tseng T, Chen L. Characteristics and Quality of Mobile Apps Containing Prenatal Genetic Testing Information: Systematic App Store Search and Assessment. *JMIR mHealth and uHealth* 2021;9(10):e30404.
212. Yeh Y, Li M, Kwok O, **Ma P**, Chen L. Chinese Americans' Family History of Colorectal Cancer Communication with Primary Care Physicians. *Health Education & Behavior* :10901981211009750.
213. Yoshikawa A, **Smith ML**, Lee S, Towne SD, **Ory MG**. The Role of Improved Social Support for Healthy Eating in a Lifestyle Intervention: Texercise Select. *Public Health Nutrition* 2021;24(1):146-156.

Research Publications

214. Yoshikawa A, **Smith ML**, **Ory MG**. Differential Risk of Falls Associated with Pain Medication among Community-Dwelling Older Adults by Cognitive Status. *Age and Ageing* 2021;50(5):1578-1585.
215. *Zhang R, **Johnson NM**, Li Y. Establishing the exposure-outcome Relation between Airborne Particulate Matter and children's Health. *Thorax* 2021.
216. Zhang X, Feng M, Luo C, Nesnas N, Huang C, **Sharma VK**. Effect of Metal Ions on Oxidation of Micropollutants by Ferrate (VI): Enhancing Role of FeIV Species. *Environmental Science and Technology* 2020;55(1):623-633.
217. Zhang X, Huang K, Saad F, Haider KS, Haider A, **Xu X**. Testosterone Therapy Reduces Cardiovascular Risk among Hypogonadal Men: A Prospective Cohort Study in Germany. *Androgens: Clinical Research and Therapeutics* 2021;2(1):64-72.
218. Zhang X, Zhao H, Horney J, Johnson N, Saad F, Haider KS, Haider A, **Xu X**. Recent Testosterone Drop-Off and Risk of Cardiovascular Events. *The Aging Male* 2020;23(5):1611-1619.
219. Zhang Y, Zhang M, Ye C, Feng M, Wan K, Lin W, **Sharma VK**, Yu X. Mechanistic Insight of Simultaneous Removal of Tetracycline and its Related Antibiotic Resistance Bacteria and Genes by Ferrate (VI). *Science of the Total Environment* 2021;786:147492.
220. Zhang M, Qiu W, Xie H, **Xu X**, Shi Z, Gao X, Zhou L, Zou H, Hu W, Sun X. Applying Kurtosis as an Indirect Metric of Noise Temporal Structure in the Assessment of Hearing Loss Associated with Occupational Complex Noise Exposure. *Ear and Hearing* 2021;42(6):1782-1796.
221. *Zhang X, **Zhao H**, Horney J, Johnson N, Saad F, Haider KS, Haider A, **Xu X**. Testosterone Deficiency, Long-Term Testosterone Therapy, and Inflammation. *Journal of Cardiovascular Pharmacology and Therapeutics* 2021;26(6):638-647.
222. ***Zhao H**, Merchant NN, McNulty A, Radcliff TA, Cote MJ, Fischer RSB, Sang H, **Ory MG**. COVID-19: Short Term Prediction Model using Daily Incidence Data. *PLoS One* 2021;16(4):e0250110.
223. **Zheng Q**. WebSalvador: A Web Tool for the Luria-Delbrück Experiment. *Microbiology Resource Announcements* 2021;10(20):e00314-21.
224. **Zheng Q**. New Approaches to Mutation Rate Fold Change in Luria-Delbrück Fluctuation Experiments. *Mathematical Biosciences* 2021;335:108572.
225. **Zheng Q**. Weaving Computational Thinking into Biostatistics Education of Public Health Students. 2021 Transformational Teaching and Learning Conference. April 30, 2021.

Research Presentations



Research Presentations

1. *Akinlotan M, Primm K, Khodakarami N, **Bolin JN, Ferdinand AO**. Rural-Urban Differences in Travel Burdens for Medical and Dental Care, 2001-2017: Evidence from the National Household Travel Survey. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
2. *Akinlotan M, Marouf B, Esplin B, **Ferdinand AO, Bolin JN**, Horel S. The Impact of the January 2017 Immigration Policy Changes on Preterm Birth Rates in Texas. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
3. Alonzo JP, Nsobundu C, **Ory MG**. Opioid Overdose Education and Naloxone Administration (OENA) Training and Case Studies. Central Texas Opioid Misuse and Prevention in Older Adult Virtual Symposium. May 2021.
4. Ashraf AM, Son C, **Peres SC**, Sasangohar F. Navigating Operating Procedures in Everyday Work in a Petrochemical Facility: A Comparative Analysis of WAI and WAD. 65th Human Factors and Ergonomics Society Annual Meeting, Baltimore, MD. October 4 - 7, 2021.
5. Beam EL, Herstein J, Kupzyk K, Lowe J, **Gibbs S**. Investigating Donning and Doffing Behaviors of Healthcare Workers for N95 Respirators. Nebraska Nurse Practitioner Conference. February 19, 2021.
6. Beam EL, Herstein J, Kupzyk K, Lowe J, **Gibbs S**. Investigating Donning and Doffing Behaviors of Healthcare Workers for N95 Respirators. Theta Omega Chapter of Sigma. February 9, 2021.
7. Bell J, Guo B, **Sharma VK**. Exploring Degradation of Trimethoprim by Chromium(III/VI)-Peracetic Acid and Chromium(III/VI)-Ascorbic Acid Systems. American Chemical Society Fall Meeting 2021, Atlanta, Georgia. August 22-26, 2021.
8. Bergeron CD, John J, Srihashyam M, Odonkor G, Oloruntoba O, Merianos AL, Horel S, **Smith ML**. County-Level Characteristics Driving Malnutrition Death Rates among Older Adults in Texas. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
9. **Callaghan T, Goidel K, Washburn D**. Understanding Physician COVID-19 Vaccine Hesitancy: Politics, Race, and Rurality. American Political Science Association, Seattle, Washington. September 30 - October 3, 2021.
10. Chapa H, Abu Baker A, **Carrino G**, Dormire C, Milman R. Preparing Future Healthcare Professionals for Interprofessional Practice. Transformational Teaching and Learning Conference, College Station, TX. April 30, 2021.
11. **Clendenin A, Fischer R**. The Power of Grassroots Partnerships in a Pandemic. Texas A&M University Conference on Preparedness Response Innovation Mitigation Recovery , College Station, Texas. January 31-February 4, 2021.
12. Davis D, Lau CA, Simmons J, Chen E, Merianos AL, **Smith ML**. Using Data to Drive Connections: Participation in CDSME Reduces Loneliness. National Council on Aging Age+Action Virtual Conference. June, 7-10, 2021.
13. Dunbar B, Bloomfield SA, **Schmit C**, Charles JB. Developing a Medical Data Repository for International Retired Crew Members: A Feasibility Project. NASA Human Research Program Investigators Workshop. February 2, 2021.
14. *Fan Q, **Ma P**. Association between Past Negative Experience with Emotional Or Behavioral Problems among US Children: Evidence from the 2016-2019 National Survey of Children's Health. 33rd Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research. May 26-June 18, 2021.

Research Presentations

15. *Fan Q, Ma P. Prevalence and Correlates of Learning Disability among Children with Special Healthcare Needs: Evidence from the 2016-2019 National Survey of Children's Health. 33rd Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research. May 26-June 18, 2021.
16. Feng M, Baum JC, Huang C-H, Sharma VK. Aliphatic Amines Enhanced Oxidation of Pharmaceuticals by Ferrate(VI): Density Function Theory Strategy to Elucidate the Generation of FeIV Species. American Chemical Society Fall Meeting 2021, Atlanta, Georgia. August 22-26, 2021.
17. Gibbs S. Why Highly Infectious Diseases Responses Need an Industrial Hygienist and Preparing the Industrial Hygienist to Respond. AIHA-Alberta 2021 Spring PDC - Symposium & AGM. March 17-18, 2021.
18. Gibbs S. Why Highly Infectious Diseases Responses Need an Industrial Hygienist and Preparing the Industrial Hygienist to Respond. AIHA-Nebraska/Iowa Chapter Seminar. June 22, 2021.
19. Grewal JK, Kaur M, Sharma VK. Mechanistic Insight into Structural, Magnetic, Optical, and Photocatalytic Properties of Core-Shell Reversal of Tri-Metallic Titanium Strontium Ferrite (Ti-Sr Ferrite)-Silica (SiO₂) Nanocomposites. American Chemical Society Fall Meeting 2021, Atlanta, Georgia. August 22-26, 2021.
20. Hendricks JW, Peres SC, Walls J. Is Attentional Maintenance the Problem (Or Something Else) with Hazard Statement Compliance? an Experimental Investigation using Eye-Tracking Technology. 65th Human Factors and Ergonomics Society Annual Meeting, Baltimore, MD. October 4 - 7, 2021.
21. Huang C-H, Luo C, Feng M, Sharma VK. Ferrates(FeVI, FeV, and FeIV) Oxidation of Pharmaceuticals in Hydrolyzed Urine: Underlying Mechanisms. American Chemical Society Fall Meeting 2021, Atlanta, Georgia. August 22-26, 2021.
22. Juengst SB, Supnet C, Kew CL, Smith ML, Maestre GE. Bilingual Problem-Solving Training for Care Partners of Adults with Dementia: Randomized Factorial-Design Trial Protocol. Texas Alzheimer's Research and Care Consortium Virtual Scientific Symposium: Advances in Alzheimer's Disease Science, Research, and Care. January 28, 2021.
23. Juengst SB, Supnet C, Smith ML, Maestre GE. Bilingual Problem-Solving Training for Care Partners of Adults with Dementia: Randomized Factorial-Design Trial Protocol. Society of Behavioral Medicine Annual Conference. April 12-16, 2021.
24. Kaur M, Kaur M, Singh AC, Garg VK, Sharma VK. "NGO@MgFe₂O₄@SiO₂ Dual Core Composite as an Efficient Photocatalyst for the Degradation of Organic Pollutants. American Chemical Society Fall Meeting 2021, Atlanta, Georgia. August 22-26, 2021.
25. Knappett PS, Farias P, Miller G, Li Y, Hoogesteger J, Mendoza-Sanchez I, Woodward RT, Loza I, Hernandez H, Datta S, Huang Y, Carrillo G, Terrell D. Accounting for the Human Impacts of Over Exploiting Aquifers with Deteriorating Water Quality in Semiarid Regions. International Water Resources Association 2021 Conference. June 7-9, 2021.
26. Lachenmayr S, Eagle LA, Barrett ME, Smith ML. Measuring Risk - the Link between Nutrition, Falls, and Social Connectedness. National Council on Aging Age+Action Virtual Conference. June, 7-10, 2021.
27. Lee S, Lee H, Zhu X, Lee C, Ory MG. The More You Move, the Better You Sleep: COVID-19 Impacts on Physical Activity and Sleep Quality. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.

Research Presentations

28. Lee S, **Ory MG**. Outpatient Service Utilization among Older Patients with Diabetes in Texas Amid the COVID-19. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
29. Lueck K, **Callaghan T**. COVID-19 Health Beliefs, the News Media, and Suicide Risk. Annual International Communication Association Conference. May 27-31, 2021.
30. ***Ma P**, Fan Q, Roque M. Tobacco use & Substance use Co-use among Older Adults in the United States. Society for Research on Nicotine and Tobacco. February 24-27, 2021.
31. Ma X, Wang X, Zhang W, **Sharma VK**. Investigation on the Altered Plant Uptake of Poly-and Per-Fluorinated Substances (PFAS) by Co-Present Microplastics. American Chemical Society Fall Meeting 2021, Atlanta, Georgia. August 22-26, 2021.
32. **Maddock JE**, Suess C, Smock C, Bratman G, Kellstedt D, Layton R, Kaczynski A, Gustat J, Christina R, Horton T. Development and Validation of an Attitudes Towards Nature Scale. 2021 SHIFT Summit. October 18-20, 2021.
33. Mazet J, Gebreyes W, Ideris A, **Gibbs S**, Parker G. Training the Next Generation of Global Health/One Health Professionals. Consortium of Universities for Global Health Virtual Conference. March 12-14, 2021.
34. *Mendez Dominguez N, Santos-Zaldivar D, Rochel-Perez K, Azuela-Morales M, Cuevas-Koh O, Alvarez-Baeza A, **Carrillo G**. Obesity and Comorbidities among Hospitalized Patients Who Died to COVID-19 in Mexico. 46th Virtual Annual Meeting of the Human Biology Association. March 29-April 2.
35. **Mendoza-Sanchez I**, Knappett PS, Farias P, Miller G, Li Y, Hoogesteger J, Woodward RT, Loza I, Hernandez H, Datta S, Huang Y, **Carrillo G**, Terrell D. Multi-Scale Solutions in Overexploited Aquifers. Convergence Accelerator Conference for Food Security in Extreme Environments and Food Deserts. May 19-21, 2021.
36. Moreno-Rangel A, **Roh T**, Wang T, Baek J, Conner L, **Carrillo G**. Reviewing the Impact of Indoor Air Quality Management and Asthma Education on Asthmatic Children's Health Outcomes - A Pilot Study. Healthy Buildings 2021, International Society of Indoor Air Quality and Climate. June 21-23 2021.
37. *Morrison S, **Han G**, Elenwa F, Vetto J, Fowler G, Leong S, Kashani-Sabet M, Pockaj B, Kosiorek H, Zager J, Sondak V, Messina J, Mozzillo N, Schneebaum S, Han D. Is the Presence of Tumor Infiltrating Lymphocytes Prognostic in Melanoma Patients? Portland Surgical Society Annual Scientific Meeting, Portland, Oregon. May 2021.
38. Nicklett E, **Ory MG**, Johnson K, Levy-Storm L, Alt P, Dwolatzky T. Symposium on Social Isolation, Social Connectedness and COVID-19 among Older Adult Populations. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
39. *Nmadu YW, Vollmer Dahlke D, Horel S, **Ory MG**, Ramos KS. Using GIS Mapping to Explore Factors in Texas' Disparities in Access to Cancer Care. American Association of Cancer Research on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved Virtual Conference. October 6-8, 2021.
40. **Ory MG**. Aging and Public Health Approaches to Disaster Preparedness and Response. National Academies of Sciences, Engineering and Medicine Workshop Series on COVID-19: Disaster Preparedness and Vulnerable Populations. June 17, 2021.

Research Presentations

41. Page R, Murphey C, **Han G**, Chen L, Loftin R, Gandhi H, Aras Y. Factors Associated with Uptake of Prenatal Genetic Testing in Hispanic Women: An Exploratory Study. . Society of Behavioral Medicine Conference. April 12-16, 2021.
42. Perras J, Hidalgo N, Newman G, **Sansom G**. Building Resilient Communities to Protect Against Exposure to Hazardous Substances: Multidisciplinary Engagement and Partnerships with the Superfund Researchers. National Institute of Environmental Health Sciences - Superfund Annual Meeting. December 16-17, 2021.
43. **Peres SC**, Acemyan CZ, Bass EJ, Brunsen E, Jacinto RF, Trippe J, Wagner RB. Embedding Ethical Principles into the Human Factors and Ergonomics Society. 65th Human Factors and Ergonomics Society Annual Meeting, Baltimore, MD. October 4 - 7, 2021.
44. Prochnow T, Umstatted Meyer MR, Johnson C, Gomez L, **Sharkey JR**. The Development and Pilot Testing of the ¡Ha Espacio Para Papi! Program Physical Activity Curriculum for Mexican-Heritage Fathers and Children. International Society of Behavioral Nutrition and Physical Activity Xchange 2021. June 8-10, 2021.
45. Prochnow T, Umstatted Meyer MR, Patterson MS, Gomez L, **Sharkey JR**. Will You Play with Me? Changes in Frequency of Active Play within Social Networks for Mexican-Heritage Children in a Father-Focused Health Program. 2021 Active Living Conference. April 6-9, 2021.
46. *Ramezani M, **Kum H-C**, Ilangovan G. Evaluation of Machine Learning Algorithms in a Human-Computer Hybrid Record Linkage System. Spring Symposium Series of the Association for the Advancement of Artificial Intelligence. March 22-24, 2021.
47. Ramirez J, Martinez D, **Bolin JN**, **Garcia R**. Systematic Review: Summary of Community Health Worker Screening Interventions Tailored for Latino/hispanic Women to Address Cervical Cancer. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
48. Raza F, **Colwell B**, **Washburn DJ**, **Maddock JE**. Socio Economic Determinants of Traditional Versus Modern Contraception use in Pakistan, Bangladesh and India. 116th American Sociological Association Annual Virtual Meeting. August 8, 2021.
49. **Roh T**, Baek J, Moreno-Rangel A, **Carrillo G**. The Impact of Working from Home during COVID-19 Pandemic on employee's Health: Implication of Indoor Air Quality. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
50. **Sansom G**, Newman G, Fawkes L. Utilizing Community Engagement to Improve Local Resilience to Hazardous Events. Texas A&M University Engagement in Disaster Preparedness Response Innovation Mitigation & Recovery (PRIMR) Conference. January 31 - February 4, 2021.
51. *Santos Zaldivar K, Mendez-Domingue N, Gomez Carro S, Datta Banik S, **Carrillo G**. Impact of the COVID-19 Pandemic on Maternal Mortality in Mexico. 46th Virtual Annual Meeting of the Human Biology Association. March 29-April 2.
52. **Schmit C**. The Effect of 2020 on US Privacy Preferences for Public Health and Law Enforcement. AcademyHealth Health Datapalooza. February 16-18, 2021.
53. **Sharma VK**. Agricultural Practices by Enhanced Water Quality through Iron-Based (Ferrate) Technology: Improved Population Health. International Water Resources Association Online Conference. June 7-9, 2021.

Research Presentations

54. **Sharma VK**, Ma X, Guo B. Light-Induced Changes in Microplastics and Dissolved Organic Matter in their Co-Existence. American Chemical Society Fall Meeting 2021, Atlanta, Georgia. August 22-26, 2021.
55. **Smith ML**, Barrett ME, Eagle LA, Lachenmayr S, Cudjoe TKM. Measuring Social Connectedness Risk Across Race and Ethnicity among Older Adults. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
56. **Smith ML**, Barrett ME, Eagle LA, Lachenmayr S, Florence LC. Pet Ownership and Social Connectedness Risk among Older Adults Who Live Alone. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
57. **Smith ML**, Sherman LD, Goidel RK, Cudjoe TKM. Social Connectedness Risk among Middle-Aged and Older Black Men with Chronic Conditions. Gerontological Society of America Annual Meeting, Phoenix, AZ. November 10-14, 2021.
58. **Smith ML**, Zhong L, Krajcinovic I, Lewis T, Elder K, Nottsonson T, Rott E. Long-Term Benefits of Chronic Disease Self-Management Program (CDSMP) on Biometric Measures among Employed Hospitality Workers with Chronic Conditions. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
59. **Smith ML**, **Ory M**, Han G, Wilson A, Foster Z, Fitch J. Technology Innovations in Dementia Care: Improvements in Functional Assessments through Background Sensing. Gerontological Society of America Annual Meeting, Phoenix, AZ. November 10-14, 2021.
60. Subramanian S, **Han G**, Olson N, Leong S. Regression is Significantly Associated with Outcomes for Patients with Melanoma. Portland Surgical Society Annual Scientific Meeting, Portland, Oregon. May 2021.
61. Sylvester S, Haeder S, **Callaghan T**. More than Words: How Framing Affects Perceptions of the Medicaid Program. American Political Science Association, Seattle, Washington. September 30 - October 3, 2021.
62. Towne SD, Xu M, **Ory MG**, Zhu X, Lu Z, Lee S, Lee C. Assessing Weekly Minutes of Moderate-to-Vigorous Physical Activity (MVPA) before and during the Global COVID-19 Pandemic in the US. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
63. Ubhi MK, Kaur M, **Sharma VK**. Phosphorous-Doped Graphene Oxide as an Efficient Photocatalyst for Degradation of Organic Pollutants. American Chemical Society Fall Meeting 2021, Atlanta, Georgia. August 22-26, 2021.
64. **Zheng Q**. Let Computational Thinking Permeate Biostatistics Education of Public Health Students. 6th International Conference on Distance Education and Learning, Shanghai China. May 21-24, 2021.

Poster Presentations



Poster Presentations

1. * Anyatonwu S, Giannouchos T, **Washburn D**, Quinonez R, **Kum HC**. Characteristics and Factors Associated with Pediatric Frequent ED use: An Analysis of 7.6 Million Pediatric ED Patients in New York. AcademyHealth Annual Research Meeting. June 14-17, 2021.
2. * Anyatonwu S, Giannouchos T, **Washburn D**, Quinonez R, **Kum HC**. Characteristics and Factors Associated with Pediatric Frequent ED use: An Analysis of 7.6 Million Pediatric ED Patients in New York. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
3. Cheemalamarri N, **Sharma VK**. Ferrate(VI) for Treating Antimicrobial Resistance in the Waters of Lower Ganga River. American Chemical Society Fall Meeting 2021, Atlanta, Georgia. August 22-26, 2021.
4. * Drury N, Lau C, Harvey N, **McDonald T**, Talcott S, Talcott S, **Johnson N**. Role of Gestational Respiratory Syncytial Virus and Ultrafine Particle Exposure on Maternal Infection and Offspring Outcomes. 2021 Society of Toxicology Meeting. March 2021.
5. * Dubose J, **Colwell B**, **Washburn DJ**, **Maddock J**. Factors Related to Anemia among Children Less than Five in Senegal and the Gambia: A Cross-Country Comparison using DHS Data. Consortium of Universities for Global Health Virtual Conference. March 12-14, 2021.
6. Fang V, **Xu X**. Spatial Patterns of Obesity and Associated Risk Factors in Colorado. 18th Global Health & Innovation Conference. April 8-11, 2021.
7. Fang V, **Xu X**. Ambient Air Pollution Exposure and COVID-19 Case Fatalities in Texas. 2021 Society for Epidemiological Research Conference. June 23-25, 2021.
8. Hedge M, Nmadu Y, Patel P, Bastida Y, Zhu X, Lee C, **Ory MG**. Disparate Housing and Neighborhood Environments Amplify the Spread and Impacts of the COVID-19 Pandemic. Consortium of Universities for Global Health Virtual Conference. March 12-14, 2021.
9. Jacobs W, Idoko E, Montgomery L, **Smith ML**, Merianos AL. Exclusive and Concurrent e-Cigarette and Marijuana use and Risky Sexual Behaviors among U.S. Adolescents. Society for Research on Nicotine and Tobacco. February 24-27, 2021.
10. Karim M, **Ohsfeldt RL**, Shete S, **Kum HC**. Sociodemographic Variation in Ambulatory Services Utilization among Insured Skin Cancer Survivors. AcademyHealth Annual Research Meeting. June 14-17, 2021.
11. * Khodakarami N, Akinlotan M, **Callaghan T**, Primm K, Vadali M, **Bolin JN**, **Ferdinand AO**. Factors Associated with Hospitalizations for Co-Occurring HIV and Opioid-Related Diagnoses: An Examination of the National Inpatient Sample, 2009-2017. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
12. * Khodakarami N, Akinlotan M, **Callaghan T**, Primm K, Vadali M, **Bolin JN**, **Ferdinand AO**. Factors Associated with Hospitalizations for Co-Occurring HIV and Opioid-Related Diagnoses: An Examination of the National Inpatient Sample, 2009-2017. AcademyHealth Annual Research Meeting. June 14-17, 2021.
13. Knappett PS, Farias P, Miller G, Li Y, Hoogesteger J, Mendoza-Sanchez I, Woodward RT, Loza I, Hernandez H, Datta S, Huang Y, **Carrillo G**, Terrell D. Costs and Benefits on Remediating Human Exposure to Arsenic and Fluoride from an Overexploited Aquifer in an Agricultural Basin. American Geophysical Union, Fall meeting 2021, New Orleans, Louisiana. December 13-17, 2021.

Poster Presentations

14. * Lau C, Behlen J, Myers A, Pendleton D, Shore R, Mustapha T, Garcia-Rhodes D, Brar A, Vargas T, Secrest J, Li Y, Zhang R, Wright G, Rodrigues Hoffmann A, Harvey N, **Johnson N**. In Utero Ultrafine Particulate Matter Exposure Leads to Enhanced Murine Neonatal RSV Infection Severity. 2021 Society of Toxicology Meeting. March 2021.
15. Lee S, **Ory MG**, Vollmer Dahlke D, **Smith ML**. Social Connectedness and Communication Technology among Paid and Unpaid Caregivers of Middle-Aged and Older Adults. Gerontological Society of America Annual Meeting, Phoenix, AZ. November 10-14, 2021.
16. Lee S, **Ory MG**, Vollmer Dahlke D, **Smith ML**. Technology use among People Living with and without Dementia: Results from a Nationwide Study. Texas Alzheimer's Research and Care Consortium Virtual Scientific Symposium: Advances in Alzheimer's Disease Science, Research, and Care. January 28, 2021.
17. **Maddock JE**, Suess C. Factors Related to Indoor Bar and Restaurant Visits during the COVID-19 Pandemic. 2021 American Academy of Health Behavior Conference. March 2021.
18. Martinez D, Sanchez M, Martinez D, Saldana P, **Bolin JN**, Catanach C. Progress of CHW and CHWI Cancer Trainings Amidst a Pandemic. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
19. **Mier N**. Gaining Knowledge and Experience in Real-World Settings through Active Learning. 2021 Teaching Professor Virtual Conference, New Orleans, Louisiana. June 6-10, 2021.
20. Myint WW, **Washburn D**, **Colwell B**, **Maddock JE**. HIV Testing Uptake among Women (Aged 15-49) in Three Southeast Asian Countries. Consortium of Universities for Global Health Virtual Conference. March 12-14, 2021.
21. **Ory MG**, Lee S, Wilson AD, Hilsabeck R, Devora PD, Aguirre A, Reuter K, Harty B, Knebl J, **Smith ML**. Assessing the Utility of Monitoring Technology for Family Caregivers of People Living with Dementia. Texas Alzheimer's Research and Care Consortium Virtual Scientific Symposium: Advances in Alzheimer's Disease Science, Research, and Care. January 28, 2021.
22. Osisioma W*, **Mendoza-Sanchez I**. Predictors of Methicillin-Resistant Staphylococcus Aureus (MRSA) and Other Beta-Lactamase Resistant Microbial Infection Hospitalizations in Texas from 2006-2018. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
23. *Pendleton D, Lau C, Drury N, Shore R, Mustapha T, Behlen J, McBee D, Zhang R, **Johnson N**. Prenatal Exposure to Ultrafine Particulate Matter Causes Sustained Growth Suppression in Offspring. 2021 Society of Toxicology Meeting. March 2021.
24. Pittman A, Kabani F, **Han G**, Elenwa F, Bustamante J. Investigating Knowledge, Skills, and Attitudes Toward Care of Sexual and Gender Minorities among Health Professions Students: A Cross-Sectional Survey at Texas A&M Health. 7th Annual Interprofessional Education & Research Symposium, College Station, Texas. November 17, 2021.
25. Raza F, **Colwell B**, **Washburn DJ**, **Maddock JE**. Socio-Economic Determinants of the Choice of Contraceptive Methods: Analyzing the Case of Pakistan, India and Bangladesh. Consortium of Universities for Global Health Virtual Conference. March 12-14, 2021.
26. **Roh T**, **Han D**, **Johnson N**, Wang T, Hasan N. The Association of Exposure to Arsenic from Drinking Water with COVID-19 Infection and Mortality in Texas. 2021 Society of Toxicology Annual Meeting. March 12-26, 2021.

Poster Presentations

27. **Roh T**, Hasan N, Knappett P, **Han D**. The Association of Fluoride Exposure with Insulin Resistance and Prediabetes in US Children and Adolescents. 2021 Society of Toxicology Annual Meeting. March 12-26, 2021.
28. **Smith ML**, Barrett ME, Lachenmayr S, Eagle LA. Associations of Food Insecurity and Social Isolation Risk among Community-Dwelling Older Adults in the United States. 2021 American Academy of Health Behavior Conference. March 2021.
29. Southerland C, Chang S, Yu S, **Han G**, Roberts A. Transference Vulnerability: Linking Social, Health, and Built Environment Data with COVID-19 Exposure. Texas A&M College of Architecture's 23rd Annual Research Symposium, College Station, Texas. October 4, 2021.
30. * Tasnim S, Nabil A, Hossain M, Nuzhath T, **Ma P**, **McKyer E**. Rural-Urban Differences and Predictors of Depressive Disorder among US Adults: Results from the Behavioral Risk Factor Surveillance System, 2019. American Public Health Association Annual Meeting, Denver, Colorado. October 24-27, 2021.
31. * Taylor L, Mims T, Yusuf A, **Dixon B**, **Fischer R**. Aggressive Community and Workplace Spread of SARS-CoV-2 B.1.1.7 and Severe Illness on a Large University Campus. American Society of Tropical Medicine and Hygiene Annual Meeting, National Harbor, Maryland. November 17-21, 2021.
32. * Wagle N, **Washburn D**, **Kum H-C**. Development, Implementation, and Perceptions of APMs: An Experience from Texas' Delivery System Reform Incentive Payment Program. AcademyHealth State Health Research and Policy Interest Group. June 2021.
33. Yang H, Rigsby M, Lee H, Zhu X, **Ory MG**, Lee C. COVID-19 and Nursing Homes: Environmental and Policy Factors that Impact COVID-19 Spread among Nursing Home Residents in Texas. Consortium of Universities for Global Health Virtual Conference. March 12-14, 2021.
34. Yoshikawa A, **Smith ML**, **Ory MG**. Differential Risk Factors for Falls among Community-Dwelling Older Adults by Cognitive Status. American Academy of Health Behavior 2021 Virtual Scientific Meeting. March 2021.
35. **Zheng Q**. Make Better use of Fluctuation Assay Data. World Microbe Forum. June 20-24, 2021.
36. Zhu X, Lee H, Yang H, Lee C, **Ory MG**, DeLao A, Hall R. Impacts of COVID-19 and Roles of Housing and Neighborhood Characteristics: An in-Depth Look at Nursing Homes and Affordable Housing. Consortium of Universities for Global Health Virtual Conference. March 12-14, 2021.

Faculty Research Interests



Epidemiology & Biostatistics

Clendenin, Angela Ph.D Instructional Assistant Professor Risk Communication; Decision Analysis; Emergency Management and Emergency Communications; Cultural/Social Influences on Communication/Decision Making; Public Health Preparedness and Response for Refugee Populations; Communications Measurement and Assessment; Teaching as Research.

Fischer, Rebecca Ph.D Assistant Professor Tropical Diseases/Viruses. Parasitic Diseases (not vaccine-preventable). Defining Trends & Epi. Infectious Diseases. Leptospirosis. Field Epidemiology of Disease.

Gorman, Dennis Ph.D Interim Department Head, Professor Alcohol and Drug Availability and Violence; Alcohol and Drug Prevention Policies; System Methodologies; Science and Pseudoscience in Public Health Research.

Han, Daikwon Ph.D Associate Professor Spatial Epidemiology; GIS & Spatial Analysis Methods; Environmental Health/Exposure Science; Environmental Justice and Health Disparities; Healthcare Access; Population Studies/Spatial Demography.

Han, Gang Ph.D Associate Professor Biostatistics. Personalized Medicine and Development of Methods. Survivor Analysis. Trial Design for Clinical Trial Methods. Time to Event Data Analysis. Economically and Ethically Reduce Time of Clinical Trials.

Kalbasi, Shaida Ph.D Instructional Assistant Professor Health Disparities, Women's Health, Quality of care for Immigrants, and Racial Minorities, Effect of Discrimination, and Race Relations on Health outcomes.

Roh, Taehyun Ph.D Assistant Professor Arsenic and Water pollution of water supplies. Clean Water Access in Rural Populations. Toxicology and Environmental Health.

Taylor, Nicholas Ph.D Assistant Professor Molecular Epidemiology of Cancer - Melanoma and Breast Cancer; Study Design and Conduct.

Xu, Xiaohui Ph.D Associate Professor Air pollution epidemiological studies. Susceptible population to environmental exposures modified by genetics, pre-existing health conditions, and coexposure to other factors, etc. Maternal and child health. Environmental exposure assessment. Spatial epidemiology.

Zhao, Hongwei Ph.D Professor Survival analysis and longitudinal data analysis, Quality-adjusted lifetime estimation, and costeffectiveness analysis conducted with censored data, Problems arising from correlated data from longitudinal studies, and multilevel epidemiological studies.

Zheng, Qi Ph.D Professor Mathematical Modeling of Biological Processes. Applied Statistical Processes. Application of Computer Algebra. Microbial Mutation Rates & Methods for Analysis.

Environmental & Occupational Health

Benden, Mark Ph.D Department Head, Associate Professor Human Factors, Safety Engineering, Process Safety Management, and Ergonomics Office worker obesity, classroom ergonomics and childhood obesity, medical device development and testing, and rehabilitation engineering.

Carrillo, Genny M.D., Sc.D Associate Professor Border Environmental Health Risk Management and Communication. Public health and US-Mexico Border Health issues with a special interest in interactions of human health and the environment, asthma in school children, and home safety and healthy homes.

Cizmas, Leslie Ph.D Instructional Associate Professor Basic Environmental Toxicology, Global Health.

Gibbs, Shawn PhD, MBA, CIH Dean Ebola, antibiotic resistance, highly infectious disease management, biocontainment, industrial hygiene, personal protective equipment

Johnson, Dennis MPH, CIS, CPH. Graduate Program Manager Crisis Management/Emergency Response, HSE Leadership and Management Systems, Accident Investigation and Prevention, Exposure Assessment, and Control.

Johnson, Natalie Ph.D Associate Professor Environmental & Occupational Diseases, Environmental Health & Toxicology, Mechanisms of Disease Prevention. Environmental carcinogens; Environmental health disparities; Exposure to foodborne (aflatoxins) and environmental carcinogens (polycyclic aromatic hydrocarbons); Chemoprevention; Development of biomarkers of exposure to traffic-related air pollution; Prenatal exposure to air pollution and associated epigenetic changes; Dietary interventions to prevent environmentally-induced asthma; Population-based animal models of allergic airway disease.

Maddock, Jay Ph.D Professor Health, Wellness, and Physical Activity, Diet, SocialEcological Approaches to Increasing Physical Activity; Nutrition, Tobacco Use, and Global Health.

McDonald, Thomas Ph.D Regents Professor Environmental Measurements/Chemistry. Environmental chemistry, petroleum geochemistry, and general organic chemistry.

Mendoza-Sanchez, Itza Ph.D Assistant Professor Mathematical and Experimental Models for Assessing Transport; Organics Trapped and absorbed in Soils as a Source Zone of Groundwater Contamination; Water Balance Modeling. Environmental Engineering. Models of Contaminants in Groundwater. Antibiotics in Food Production & Groundwater. Antibiotic Resistance.

Environmental & Occupational Health

Ory, Marcia Ph.D Regents & Distinguished Professor / Associate Vice President for Strategic Partnerships (TAMHSC) / Public Health Interventions. Aging and Health promotion. Chronic Disease Management; Health Technology and Community Engagement. Translational research.

Peres, S. Camille Ph.D Associate Professor
Human Factors, Research Methods, Alternative Displays. Biomechanics of Human-computer interactions, Design guidelines for auditory displays, and usability of home health care technology. Worker safety, human systems integration, human systems engineering, ergonomics, procedures, engineering psychology, occupational safety.

Pickens, Adam Ph.D Instructional Assistant Professor Occupational Safety, Industrial Hygiene, Ergonomics, and Biomechanics. Ergonomic tool development; Occupational safety screening/tool development, Upper extremity modeling; Manual materials handling, and Occupational biomechanics.

Sansom, Garret Ph.D Research Assistant Professor Environmental health policy and planning, Community Resilience, Sustainable development, and public health, Field research methods, Community engagement strategies.

Sharma, Virender Ph.D Professor Environmental, Physical, Analytical Chemistry. IronBased Oxidants (Ferrates and Ferrites), Kinetics and Mechanism of High-Valant Transition Metals, Advanced Oxidation Methods, Solar-Based Photoactive Materials in Water Treatments, Green Synthesis of Nanoparticles, Formation, Fate, and Toxicity of Nanoparticles in the Aquatic Environment.

Smith, Matthew Ph.D Associate Professor. Health Risk Behaviors Across the Life Course; Evidence-based Programming for Older Adults; Program Evaluation; Measurement; Survey Research Methodology. Public health systems and service research; Rural health, health policy, and vulnerable populations; Nutrition, physical activity, obesity, and related conditions; Educational pedagogy, particularly around writing skills in health professions.

Health Promotion & Community Health Sciences

Burdine, James Ph.D Interim Department Head / Professor Community Health Development; Community Organization and Assessment; Community Health Status Assessment. Measurement of factors influencing community capacity for population health improvement and community health development strategies, particularly community health needs assessment.

Clark, Heather DrPH Director of Public Health Practice / Research Associate Professor
Building Community Capacity to Solve Problems. Grassroots Causes. Social Norms & Values, Partnerships with Community. Rural Access to Care. Physical & Mental Health. Diabetes & Opioid Abuse.

Colwell, Brian Ph.D Professor
Social Ecology and Health Behavior; Seminar on Alcohol, Tobacco, and Other Drugs. Adolescent smoking cessation; school health education; youth smoking prevention; adolescent mental health and substance abuse.

Jones-McKyer, Ellisa Ph.D Associate Dean for Climate & Diversity / Professor
Minority health issues and health disparities; Parental influences on child health behaviors and outcomes; Socioecological factors of health behaviors.

Ma, Ping Ph.D. Assistant Professor
Maternal & Child Health Issues. Health Disparities in Vulnerable Populations. Smoking Cessation. Children's Injury Prevention.

Mier, Nelda Ph.D Instructional Assistant Professor
Chronic Disease Prevention, Quality of Life through Behavioral Change in Mexican Americans of all ages living in Texas-Mexico border region, Physical Activity Among Mexican Americans, Intervention Research to Enhance Physical Activity Patterns, Diabetes Prevention Among Children and Adults in Border Region, Promotoras Model (Community Health Workers) in Border Regions.

Sharkey, Joe Ph.D Professor
Social and Behavioral Research Methods; Program Evaluation; Mixed-Methods Research; Environment and Policy Assessment. Food access and food choice in underserved areas, food insecurity and hunger, childhood obesity, and effects of structural and individual characteristics on nutrition, physical activity, and health outcomes, promotora empowerment, community-engaged approached to population health.

Stasi, Selina DrPH Instructional Assistant Professor
Access to and physical activity promotion within underserved communities and communities of color, through community-based research, asset mapping, and GIS analysis. Research regarding physician-based physical activity counseling, prescription and referral, and youth engagement and empowerment to combat disparities in physical activity and health. Linkages between community, clinic, and church, and the role public health practitioners play to leverage resources between them all.

Health Policy & Management

Andreyeva, Elena Ph.D Assistant Professor

Health economics, Spatial nature of the healthcare market, Urban/regional/rural economics, Health Insurance effects on policies of healthcare delivery, Risky health behaviors.

Bolin, Jane Ph.D, J.D., R.N Professor.

Health Law and Ethics, Regulatory Compliance; Cancer Screening and Prevention; Diabetes Self- Management; Chronic Disease Management; Interdisciplinary and Translational Research; Rural Health Research.

Callaghan, Timothy Ph.D Assistant Professor

Health Policy & Politics, Rural Health. State Level Decisions on Health Policy & Access to Care. Autism, Disability, Motivations of Personal Issue to Public Policy Change. Surprise Medical Bills. Medicaid Work Requirement. Antibiotic Resistance.

Carrino, Gerard Ph.D Instructional Professor

Evaluation: Program, Process, Outcomes, Economic; Nonprofit Sector in Health Care; Health Care Philanthropy and the Social Sector; Prematurity, Birth Defects, Infant Mortality; Public Health Finance.

Côté, Murray Ph.D Associate Professor

Operational Analysis. Health Services Delivery Methods (Tele/Drone). Project Management in Rural Hospitals. Information Asymmetry in Doctor/Patient Encounters.

Ferdinand, Alva Ph.D, J.D. Associate Professor

Impact of laws and other policies relative to public health outcomes such as roadway safety, obesity, and access to care. Other interests include state and federal regulation of health care and community health development.

Griffith, Jennifer. DrPH Associate Dean for Academic Affairs/ Instructional Professor

Public Health Emergency Preparedness and Response; Intervention Implementation, Management, and Evaluation.

Hatala, Jeffrey. Ph.D Program Director/ Instructional Associate Professor

Public health systems and service research; Rural health, health policy, and vulnerable populations; Nutrition, physical activity, obesity and related conditions; Educational pedagogy in health professions.

Kash, Bitu MBA, Ph.D Professor

Organizational capacity for change and transformation; Change implementation in healthcare; Healthcare strategic planning and marketing; Quality and Cost of Care.

Kum, Hye-Chung, Ph.D Professor

Data science for health care; population and health informatics; analysis of big data; decision support systems for health policy and management. Machine Learning.

Health Policy & Management

Lin, Sherry Ph.D Instructional Assistant Professor
Preventive Care Services; Disabilities Research; Vulnerable Populations.

Ohsfeldt, Robert Ph.D Regents Professor
Cost-Effectiveness and Cost Models; Economics of Health Behavior; Impact of Health Sector Regulation.

Quiram, Barbara Ph.D Professor
Public Health Infrastructure; Health System Service Quality; Public Health Workforce Development; Rural Community Health System Planning and Development; Rural Community Disaster Planning.

Radcliff, Tiffany Ph.D Associate Dean for Research / Professor
Health Economics; Health Policy; Health Services Research; Improving Quality of Care in Long-term Care; Access to Care for Rural and Other Underserved Populations; Improving Care, Processes and Outcomes; Disaster Preparedness and Response; Veterans Healthcare; Economic Evaluation.

Schmit, Cason J.D. Assistant Professor
Law as a Social Determinant of Health; Health Information Technology; Health Information Exchanges; Privacy, Confidentiality, and Security of Health Information; Public Health Reporting and Surveillance; Pharmacists' Vaccination Authorities.

Ukert, Benjamin Ph.D. Assistant Professor
Affordable Care Act, Commercial Health Insurance, Health Care Organization, Health Care Delivery, Health Behaviors, Health Policy.

Tomaszewski, Lesley Ph.D Instructional Associate Professor
Social Learning and Identity Formation; Gender in the Workplace; Andragogy and Curriculum Development.

Washburn, David Sc.D Assistant Professor
Global Health; Health Policy; Health Systems Analysis; Strategic and Capital Planning; The Diffusion of Innovations; Decision-Making Behavior; Access to Care.

SCHOOL OF PUBLIC HEALTH AT TEXAS A&M UNIVERSITY

We are committed to help move the department and institutional dialogue beyond that of managing diversity as a problem. The multiple aspects of an individual's identity enhance the work and educational environment.

Individual differences including race, sexual orientation, class, and gender, in addition to other qualities, do not exist in isolation, and each person has multiple aspect of their identity. We believe individuals are an integrative part of a healthy workplace climate.

All people, working together, are key aspects of cultural competency, diversity and inclusion that our office strives to uphold for the School of Public Health and Texas A&M University.

The Texas A&M University is a Council on Education for Public Health (CEPH) accredited institution.

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School of Public Health