

Annual Research Report

Calendar Year 2016



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Research Overview

Mission:

The Texas A&M 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.

Values:

**Accountability,
Meaningful
Impact**

**G- Global and
diverse: Our
research crosses
borders**

**G- Generosity:
Through selfless
service**

I- Integrity

**E- Excellence: In
teaching,
research, service,
and practice**

S- Social Justice

**P- Professionals:
Leaders paving
the way**

**H- Honor Respect
for all**

Purpose: Research is an integral part of the Texas A&M School of Public Health mission and activities with the majority of the nearly 60 faculty members engaged in sponsored research and service activities. This report summarizes School of Public Health faculty projects, publications, presentations, and research interests during Calendar Year 2016.

Highlights: Calendar Year 2016 was a growth year marked by a number of key highlights including growth in research expenditures and number of publications; expansion of programs designed to provide pilot funding support; growth in global health research activities; and, formal establishment of new programs and centers.

Initiatives: In an effort to provide seed funding for innovative and promising research, the School of Public Health awarded the second round of the Delta Omega Research and Development Initiative (REDI) Program in May 2016. Awarded through a competitive application and external review process, six SPH investigators received awards of \$25,000 each to support their respective research projects. The REDI grantees and projects are listed in this report.

New Funding: A number of large grants and contracts were secured during the year from diverse funders including HRSA, NIH, NAS, NSF, DSHS, and private foundations. A few of the many awards received by SPH investigators from across departments are noted below. A full listing of awards is included in this report.

Dr. Jane Bolin and Dr. Alva Ferdinand. *Southwest Rural Health Research Center: Rural Health Research Grant Program Cooperative Agreement*, Health Resources and Services Administration (**HRSA**). This four year Center grant includes four subprojects also included in this report.

Dr. Tanya Garcia. *Innovative Statistical Models for Development of First Huntington's Disease Progression Risk Assessment Tool (K01 award)*, National Institutes of Health/National Institute of Neurological Disorders and Stroke (**NIH**).

Dr. Jennifer Griffith. *Mitigation Planning Process Stage 3*, Texas Department of State Health Services (**DSHS**).

Dr. Jennifer Horney. *Texas OneGulf Strategic Environmental, Human Health and Safety: Disaster Research Response*, TAMU Corpus Christi/Texas Commission on Environmental Quality (**TCEQ**).

Dr. Bitu Kash. *The Texas Project: Transitions Explored and Studies: Using Data to Prevention Readmissions in the Texas Medical Center*, Texas Medical Foundation (**TMF**)

Dr. Ranjana Mehta. *Factoring in the Human in Offshore Operations: Forces for Scenario Planning*, National Academy of Sciences, Engineering, and Medicine (**NAS**).

Dr. Marcia Ory. *SUSTAIN for Better Health and Health Care for Older Adults*, Department of Health and Human Services Administration for Community Living (**ACL**).

Dr. S. Camille Peres. *NSF Eager: Humans, Teams, and Technologies: Human-Team and Team-Machine Interaction in Emergency Response*, National Science Foundation (**NSF**).

Dr. Barbara Quiram. *High Consequence Infectious Disease Planning Table Top Exercises*. Texas Department of State Health Services (**DSHS**).

New Programs and Centers: During 2016, a number of new programs and Centers were formally established at SPH to enable researchers with similar interests to coalesce research interests, expertise, and projects. *The Program for the Environment and Sustainability* was approved in Fall 2016; the Program is under the direction of Dr. Virender Sharma and Dr. Tony Rene'. Located in the Department of Environmental and Occupational Health, the program's mission is to become a leader in the interaction of the environment, sustainability and population health in the state of Texas, nationally and internationally. *The Center for Population Health and Aging* was approved by the Texas A&M Board of Regents in Fall 2016. Under the direction of Dr. Marcia Ory, the Center evolved from the long-standing Program on Healthy Aging to Center status. The Center focuses on identification of social, behavioral, and environmental determinants of health in older populations in order to promote successful aging throughout the life course.

Awards and Recognition. During 2016, all SPH Principal Faculty were invited to submit their outstanding peer reviewed journal articles for recognition in the Faculty Best Paper competition sponsored by SPH. Submissions were reviewed based on significance to public research and practice and implications for improving population health. At the Assistant Professor level, the winners were Dr. Alva Ferdinand and Dr. Sam Towne; the Associate level winner was Dr. Qi Zheng, and the winner at the Professor level was Dr. Jane Bolin. The school also selected the winners of the Student Research Excellence Award. The award recognizes outstanding students who have demonstrated excellence in the design, conduct, execution, and impact of research. The 2016 winners were Ashley Shortz (masters level winner) and Dr. Chinedum Ojinnaka (doctoral level winner).

Research Enhancement & Development Initiative

The Texas A&M School of Public Health strives to support faculty in their research activities, including assistance in the development of new extramurally supported investigator-initiated research. The Delta Omega Research Enhancement and Development Initiative (REDI) program provides small pilot funding awards to SPH investigators in support of innovative, novel, and interdisciplinary ideas with a high probability of leading to significant external funding.

2016 Award Grantees



Bernard Appiah, DrPH, MDC, MS, BPharm
Assistant Professor
Public Health Studies
Identifying culturally relevant interventions to increase medication adherence among adults with diabetes or hypertension

Leslie Cizmas, PhD
Assistant Professor
Environmental & Occupational Health
Impact of nanoparticles on the formation and toxicity of disinfection byproducts during water chlorination



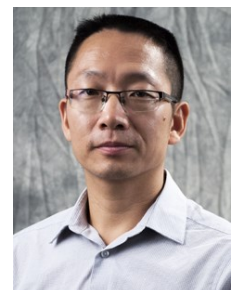
Alva Ferdinand, DrPH
Assistant Professor
Health Policy & Management
Examining the impact of gun control laws on firearm-related morbidity and mortality

Gang Han, PhD
Associate Professor
Epidemiology & Biostatistics
Improved survival analysis in personalized cancer therapy trials



Darcy McMaughan, PhD
Assistant Professor
Health Policy & Management
Resident, site, and care coordination characteristics in unlicensed board and care homes: A pilot study in Houston, TX

Xiaohui Xu, PhD
Associate Professor
Epidemiology & Biostatistics
Interaction between genes and air pollution in relation to cardiometabolic risk in US population



Bernard Appiah, DrPH, MDC, MS, BPharm

Identifying culturally relevant interventions to increase medication adherence among adults with diabetes or hypertension

This project uses secondary data analysis to quantitatively assess non-adherence to anti-diabetic and anti-hypertensive medications among patients in up to nine counties in Texas. Also, through use of interviews of patients with diabetes or hypertension, their caregivers and clinicians, we identify factors that can facilitate the design and implementation of culturally relevant evidence-based interventions for promoting medication adherence among adults with diabetes or hypertension. To the best of our knowledge, the study is the first to identify culturally relevant beliefs, knowledge and attitudes that can facilitate the design of medication adherence interventions for uninsured and insured patients from socio-ecological perspectives of the patients, their caregivers and clinicians. It identifies the extent of medication non-adherence in patients with diabetes or hypertension, generate pilot data to help guide the design of culturally relevant interventions for medication adherence, and create interdisciplinary partnerships for writing grant proposals to test the efficacy of culturally relevant interventions for promoting medication management in African American populations.

Leslie Cizmas, PhD

Impact of Nanoparticles on the Formation and Toxicity of Disinfection Byproducts during Water Chlorination

This project systematically investigates the impact of nanoparticles (NPs) on the formation and toxicity of drinking water disinfection byproducts (DBPs) in drinking water supplies. Various types of NPs are being used in a number of consumer and industrial products, which ultimately enter into water systems and may greatly influence the formation of DBPs. Research examining the influence of NPs on DBP formation and toxicity is critically needed. Aims include chlorinating water samples containing TiO₂ NPs, ZnO NPs or Ag NPs, characterizing the NPs after chlorination, chemically analyzing production of trihalomethane and haloacetic acid DBPs, and assessing the toxicity of the DBPs produced in the presence of TiO₂, NPs, ZnO NPs or Ag NPs. Data showing increased DBP toxicity will provide justification for further research into the mechanisms of NP-promoted DBP formation.

Alva Ferdinand, DrPH, JD

Examining the Impact of Gun Control Laws on Firearm-Related Morbidity and Mortality

This project examines changes in the prevalence of firearm deaths before and after the effective dates of gun control measures relative to contemporaneous changes in firearm deaths in states without such laws. It examines changes in the prevalence of non-fatal firearm injuries before and after the effective dates of gun control measures relative to contemporaneous changes in non-fatal firearm injuries in states without such laws. This work utilizes econometric methods to analyze gun control measures and will use multiple approaches to strengthen its internal validity. The use of clinical secondary data from several states over a seven-year period will serve to provide a more robust understanding of the effect of gun control measures on firearm-related morbidity and mortality. It uses a panel study design (data from 2008 -2014) and a difference-in-difference methodology to assess the relationship between the presence of various gun control laws and firearm-related fatalities and hospitalizations across seven states.

Gang Han, PhD

Improved survival analysis in personalized cancer therapy trials

The current discovery of new molecular information (e.g., next generation sequencing) is making the personalized cancer therapy increasingly feasible, leading to more effective treatment and diagnosis of cancer. However, the accrual of patients having a specific genomic subtype (e.g., EGFR mutation positive) can be an impeding and difficult progress. The existing statistical analysis for cancer survival is primarily based on nonparametric methods such as Kaplan-Meier estimate and log-rank test that are statistically less efficient than properly used parametric methods, where the loss of efficiency is close to throwing one third of the patients away. This project uses a statistical framework to reasonably utilize the most mathematically tractable survival model, the exponential model, in the design and analysis of clinical trials with time-to-event endpoints. Compared with existing methods, this approach has the potential to save up to 40% of the sample size without compromising the statistical power. In addition to developing the statistical theory, researchers apply the proposed method in a randomized Phase II breast cancer trial (NCI protocol number 8457).

Darcy McMaughan, PhD

Resident, site, and care coordination characteristics in unlicensed board and care homes: A pilot study in Houston, Texas

This study addresses the important topic of how residents come to access care in unlicensed board-and-care facilities (UB&C), and the quality and type of care they receive, focusing on describing the UB&C facilities, UB&C residents, and HCBS coordination in Houston, Texas through a collaboration between the TAMU Department of Health Policy and Management, the TAMU Department of Educational Psychology, and the Houston Police Department Mental Health Division. This study focuses on creating evidence around four areas of interest associated with UB&C, using Houston, Texas as a pilot site: 1) UB&C facilities, 2) UB&C residents, 3) care provided in UB&C, and 4) public and private agencies and institutions involved in placing residents in UB&C. This study builds a profile of the characteristics of UB&C, the care provided in the facilities, and the public and private organizations involved in placing people in UB&C.

Xiaohui Xu, PhD

Interaction between Genes and Air Pollution in Relation to Cardiometabolic Risk in US Population

This study examines the interaction between selected genes and air pollution in relation with inflammation and cardiometabolic biomarkers. The project provides a cost-effective way to investigate this important research question by utilizing existing confidential datasets and will address the knowledge gaps regarding the potential interaction between genes and air pollution. The findings will provide insights regarding the biological mechanisms underlying adverse effects of air pollution on cardiovascular diseases. This project provides valuable preliminary data for developing fine epidemiological studies and individual-based intervention studies in the future to mitigate the air pollution-associated cardiovascular risk.

Board of Regents Approved Centers

Center for Community Health Development

Established in 2001 through the
Robert Wood Johnson Foundation

Co-Directors: Kenneth McLeroy, PhD & Jim Burdine, DrPH



Center for Health Organization Transformation

NSF Industry/University Cooperative

Research Centers Program

Director, PI: Bitia Kash, PhD



Center for Population Health & Aging

Funded by multiple external grants

Director: Marcia Ory, PhD, MPH



USA Center for Rural Public Health Preparedness

Established initially as a CDC-funded

Center for Public Health Preparedness

Director: Barbara Quiram, PhD



Southwest Rural Health Research Center

Established initially as a HRSA/ORHP

Rural Health Research Center

Director, PI: Jane Bolin, PhD, JD, RN



The Ergonomics Center

Funded by multiple external grants

Director: Mark Benden, PhD



SPH Recognized Programs

Program on Disability Research & Community-Based Care

Director: Darcy McMaughan, PhD



Program on Public & International Engagement for Health

Director: Bernard Appiah, DrPH,
MDC, MS, BPharm



Program for Reproductive & Child Health

Director: Brandie Taylor, PhD



Program for Health Policy Research

Director: Michael Morrissey, PhD



Program for Research & Outreach Engagement on Nutrition & Health Disparities Solutions

Director: Joseph Sharkey, PhD, MPH



Program on Public Health & Water Research

Director: Virender Sharma, PhD



Program for Asthma Research & Education

Director: Genny Carrillo, MD, ScD



Active Grants & Contracts CY2016

Alaniz, Angie. *Evaluation of the Madison Outreach and Services through Telehealth Network*, Madison County Government, \$112,599 (2012-2016) [CCHD].

Appiah, Bernard. *Using cellphone caller tunes to promote blood donation in Sub-Saharan Africa: A feasibility study in Ghana*. Texas A&M PESCA Grant Program, \$10,000 (2016-2017).*

Appiah, Bernard. *Children Against Antimicrobial Resistance: An Engagement Project in Ghana*, Wellcome Trust, \$43,852 (2016-2017).*

Appiah, Bernard. *Identifying Culturally Relevant Interventions to Increase Medication Adherence among Adults with Diabetes or Hypertension*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2016-2017).*

Benden, Mark. *Small Business Innovation Research Award (SBIR) PHASE II: Development of a Stand-Biased School Desk to Reduce Childhood Obesity*, subaward from Positive Motion, LLC (prime is CDC), \$400,563 (2013-2016) [ERGC].

Benden, Mark. *Texas A&M University Occupational Safety & Health Training Program (competitive 5 year renewal)*, NIOSH, \$516,453 (2012-2017) [ERGC].

Benden, Mark. *Can This Process Be Re-purposed to Refill Depleted Below Surface Aquifers?* Texas A&M University Area 41 Award, \$25,000 (2015-2016) [ERGC].*

Benden, Mark. *External Safety Support*, Texas Transportation Institute, \$70,000 (2010-2017).

Bolin, Jane, Co-PI (McClellan, David, PI). *Enhanced Breast & Cervical Cancer Prevention for Low-Income and Underserved Using Trans-disciplinary Collaboration in a Family Medicine Setting*, Cancer Prevention & Research Institute of Texas (CPRIT), \$1,499,993 (2013-2017) [SRHRC].

Bolin, Jane, Co-PI (McClellan, David, PI). *Continuation and Expansion of Texas A&M's Colorectal Cancer Screening, Training, Education, and Prevention Program*, Cancer Prevention & Research Institute of Texas (CPRIT), \$1,500,000 (2014-2017) [SRHRC].

Bolin, Jane. *CPRIT Dissemination: Training CHWs for Cancer Education and Navigation*. Texas Cancer Prevention and Research Institute of Texas (CPRIT), \$300,000 (2015-2017) [SRHRC] [CCHD].

Bolin, Jane. *Addressing Rural Health Challenges and Disparities: An Episcopal Health Foundation & Texas A&M Partnership to Meet the Needs of Underserved Texas Counties*, Episcopal Health Foundation, \$62,970 (2016-2017) [SRHRC].*

Bolin, Jane and Alva Ferdinand. *Southwest Rural Health Research Center: Rural Health Research Grant Program Cooperative Agreement*, Health Resources and Services Administration (HRSA), \$2,800,000 (2016-2020) [SRHRC].*

Bolin, Jane. *Southwest Rural Health Research Center, Year 1 Project 4, The Burden of Diabetes in Rural America*, Health Resources and Services Administration (HRSA), \$122,377 (2016-2017) [SRHRC].*

Carrillo, Genny. *Community-based Pediatric Asthma Education and Intervention*, Knapp Community Care Foundation, \$374,042 (2015-2017).

Carrillo, Genny. *Asthma Education and Outreach Delivery Model Program*, Raul Tijerina Jr. Foundation, \$25,000, 2015-2016.

Cizmas, Leslie. *A Multi-Step Approach to Assessing the Toxicity of Drinking Water Disinfection By-Products Following Chlorination, Chloramination or a Novel Ferrate Disinfection Process*, The Center for Translational Environmental Health Research (CTEHR) Pilot Project Program, \$71,704 (2014-2016).

Cizmas, Leslie. *Impact of Nanoparticles on the Formation and Toxicity of Disinfection Byproducts during Water Chlorination*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2016-2017).*

Colwell, Brian. *Youth Tobacco Education Project*, Texas Department of State Health Services (DSHS), \$713,393 (2003-2017).

Colwell, Brian. *ConDev, Texas A&M University & USAID/DRC Partnership: Evaluation of the Kinshasa School of Public Health*, subaward from the Texas A&M Center on Conflict and Development (ConDev) (prime is the United States Agency for International Development (USAID), \$293,789 (2015-2017).

Cote, Murray. *VEMEC IPA: VA Emergency Management and Evaluation Center Interagency Personnel Agreement*, U.S. Department of Veteran's Affairs, \$81,728 (2011-2016).

Ferdinand, Alva. *Examining the Impact of Gun Control Laws on Firearm-Related Morbidity and Mortality*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2016-2017).*

Ferdinand, Alva. *Southwest Rural Health Research Center, Year 1 Project 2: Examining the Legal Landscape in Rural America: Implications for the Healthcare Workforce, Access to Care, and Population Health*, Health Resources and Services Administration, \$130,897 (2016-2017).*

Garcia, Tanya. *Improved Definition and Prediction of Huntington's Disease Motor-Onset Using Advanced Statistical Methods*, Huntington's Disease Society of America, \$150,000 (2013-2016).

Garcia, Tanya. *Innovative Statistical Models for Development of First Huntington's Disease Progression Risk Assessment Tool (K01 award)*, National Institutes of Health/National Institute of Neurological Disorders and Stroke, \$557,406 (2016-2019).*

Garcia, Tanya. *Identifying High-Dimensional Neuroimaging Biomarkers Associated with Huntington's Disease Motor-Onset*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2015-2016).

Garney, Whitney. *Texas Tobacco Quit Line [Phase II]*, Texas Department of Aging and Disability Services, \$220,000 (2015-2016) [CCHD].

Gorman, Dennis. *External Evaluation of the AFC -Personal Responsibility Education Program (PREP)*, Ambassadors for Christ, Inc., \$132,000 (2012-2017).

Griffith, Jennifer. *Infectious Disease Panel Session*, Texas Department of State Health Services, \$210,419 (2015-2016) [USA].

Griffith, Jennifer. *Mitigation Planning Process Stage 3*, Texas Department of State Health Services, \$110,917 (2015-2016) [USA].

Han, Gang. *Improved Survival Analysis in Personalized Cancer Therapy Trials*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2016-2017).*

Hong, Alicia. *Health-Related Mobile Use Among Older Adults with Chronic Conditions*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2015-2016).

Horney, Jennifer. *Increasing Epidemiological Capacity*, Waco McLennan County Public Health District, \$17,520 (2016).*

Horney, Jennifer. *Implementing the Disaster Recovery Tracking Tool*, subaward from the University of North Carolina (prime is Department of Homeland Security), \$133,337 (2016-2018).*

Active Grants & Contracts CY2016

Horney, Jennifer. *The Effects of Pre-Disaster Recovery Plan on Post-Disaster Recovery among Socially Vulnerable Populations*, National Science Foundation, \$83,085 (2014-2016).

Horney, Jennifer. *Utilizing Secondary Data to Assess the Health and Health System Impacts of Natural and Technological Disasters in the Gulf*, National Academy of Science, \$181,206 (2015-2017).

Horney, Jennifer. *Perceptions of Community Resilience in Texas Coastal Shoreline Counties*, subaward from Texas A&M University Sea Grant Program (prime is National Oceanic and Atmospheric Administration National Sea Grant Office), \$22,886 (2016-2018).*

Horney, Jennifer. *Texas OneGulf Strategic Environmental, Human Health and Safety: Disaster Research Response*, subaward from Texas A&M University Corpus Christi (prime is Texas Commission on Environmental Quality), \$171,693 (2016-2017).*

Horney, Jennifer. *Texas OneGulf Strategic Environmental, Human Health and Safety: DR2 Pilot Project in Environmental Public Health*, subaward from Texas A&M University Corpus Christi (prime is Texas Commission on Environmental Quality), \$75,000 (2016-2018).*

Horney, Jennifer. *EAGER-Citizen Science for Infrastructure Monitoring at the Neighborhood Level*, subaward from TEES (prime is National Science Foundation), \$2,706 (2016-2017).*

Horney, Jennifer. *NSF REU: Cyber-HealthGIS -Research Experiences at the Intersection of Cyber Infrastructure, GIS Science, Computer Science and Health*, subaward from Texas A&M University (prime is National Science Foundation), \$14,611 (2016-2017).*

Johnson, Natalie. *Impact of In Utero Aerosol Exposure on Asthma Susceptibility*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2015-2016).

Kash, Bitia. *Center for Health Organization Transformation (CHOT) Renewal*, National Science Foundation I/UCRC, \$307,300 (2014-2019) [CHOT].

Kash, Bitia. *Innovative Managing Director*, National Science Foundation I/UCRC, \$576,815 (2014-2017) [CHOT].

Kash, Bitia. *Research Experiences for Undergraduates (REU)*, National Science Foundation I/UCRC, \$32,000 (2014-2019) [CHOT].

Kash, Bitia. *Anatomy, Evolution, and the Future of the Perioperative Surgical Home (PSH): Development of a Framework for the PSH Design and Action*, American Society of Anesthesiologists, \$150,000 (2013-2016) [CHOT Member].

Kash, Bitia. *A Hospital Integrated Primary Care Provider (PCP) Network Model*, Texas Children's Hospital, \$150,000 (2013-2016) [CHOT Member].

Kash, Bitia. *Translating the Healthy South Texas Vision into a Framework for Action and Research*, Coastal Bend Health Education Center, \$150,000 (2015-2018) (CHOT member).

Kash, Bitia. *Customer Service at Central Texas Veterans Health Care System's Austin Outpatient Clinic (VA)*, Texas A&M Health Science Center Coastal Bend Health Education Center, \$150,000 (2015-2018) (CHOT member).

Kash, Bitia. *The Role of Disparities in 30-Day Hospital Readmission Rates*, Main Line Health, \$150,000 (2015-2018) (CHOT member).

Kash, Bitia. *Future Models of Cancer Care: Implications for Space and Design*, HKS, Inc., \$75,000 (2016-2019) (CHOT member).*

Kash, Bitia. *Evaluating Future Models of Care Delivery in Texas*, Texas A&M Health Science Center College of Medicine, \$150,000 (2016-2018) (CHOT member).*

Kash, Bitia. *Virtual Care Clinics: What Can We Learn from Early Adopters*, Carena Health, \$50,000 (2016-2017) (CHOT member).*

Kash, Bitia. *The Cost of Postoperative Delirium*, American Society of Anesthesiologists, \$150,000 (2016-2019) [CHOT Member].*

Kash, Bitia. *Evaluation of Remote Patient Monitoring in Various Settings*, Texas Children's Hospital, \$150,000 (2016-2019) [CHOT Member].*

Kash, Bitia. *Effectiveness of Population Health Programs and Technology Tools*, H.E.B., Inc., \$150,000 (2016-2019) [CHOT Member].*

Kash, Bitia. *Development of Face-To-Face Training Course Curriculum*, International Atomic Energy Agency (IAEA), \$17,258 (2016-2017) [CHOT].*

Kash, Bitia. *The Texas Project: Transitions Explored and Studied: Using Data to Prevention Readmissions in the Texas Medical Center*, Texas Medical Foundation, \$48,960 (2016-2017) [CHOT].*

Kum, Hye Chung. *Leveraging Motor Vehicle Crash, subaward from the Texas Transportation Institute (prime is Centers for Disease Control and Prevention)*, \$24,880 (2016-2017).*

Kum, Hye Chung. *Virtual Social Genome Data Library: A Secure Data Infrastructure for Population Informatics; Seed Grant for Interdisciplinary Research in Big Data*, TEES, Texas A&M University, and Texas A&M Health Science Center, \$50,000 (2016-2017).*

McDonald, Thomas. *Public Health Traineeship*, Health Resources and Services Administration (HRSA), \$148,359, (2014-2016).

McKyer, E. Lisako. *Healthy Texas Babies Coalition Evaluation*, Texas Department of State Health Services, \$400,000 (2015-2017).

McKyer, E. Lisako. *Southwest Rural Health Research Center, Year 1 Project 1: Are Rural Mothers and Infants Benefitting from National Women, Infants and Children (WIC) Policy?* Health Resources and Services Administration, \$123,866 (2016-2017).*

McKyer, E. Lisako. *Go, Slow, Who! Utilizing a Food Labeling System to Make "Healthy" the Easy Choice*, Texas Medical Foundation, \$57,464 (2016-2017).*

McKyer, E. Lisako. *NAATPN and HDEART Workshop of Tobacco & Cancer Disparities*, The National African American Tobacco Prevention Network (NAATPN), \$45,000 (2016-2017).*

McKyer, E. Lisako. *DFPS Program Evaluation*, subaward from Texas A&M AgriLife Research (prime is DSHS), \$89,933 (2016-2017).*

McLeroy, Kenneth and Garney, Whitney. *Develop and Translate Medical Technology to Reduce Health Disparities*, subaward from The American Heart Association, (prime is CDC), \$452,381, (2014-2017) [CCHD].

McLeroy, Kenneth and Wilson, Kelly. *Integrating Teen Pregnancy Prevention Innovative Practices (iTIP)*, Office of Adolescent Health, \$7,500,000 (2015-2020) [CCHD].

McMaughan, Darcy. *Nursing Home Antibiotic Stewardship Tools and Guide*, Task order from American Institutes for Research (prime is AHRQ), \$206,675 (2013-2016).

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McMaughan, Darcy. *STAR KIDS*, Texas Health and Human Services Commission (TXHHSC), \$1,214,885 (2014-2017).

McMaughan, Darcy. *Resident, Site, and Care Coordination Characteristics in Unlicensed Board and Care Homes: A Pilot Study in Houston, Texas*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2016-2017).*

McMaughan, Darcy. *Southwest Rural Health Research Center, Year 1 Project 3: Provision of Skilled Nursing in Rural America: Skilled Nursing Facilities and Swing Beds*, Health \$119,387 (2016-2017).*

Mehta, Ranjana. *Revised Force Endurance Models for the US Workforce*, subaward from Research Foundation of State University of New York (SUNY) (Prime is CDC-NIOSH), \$36,375 (2014-2016).

Mehta, Ranjana. *Obesity, Stress, and Neuromuscular Function in the Elderly*, NIH/ National Institute on Aging, \$347,527 (2015-2018).

Mehta, Ranjana (Co-PI). *Computer/Video Games, Hemodynamics, and ADHD*. Texas A&M PESCA Grant Program, \$17,953 (2015-2016).

Mehta, Ranjana. *Brain Imaging Correlates of Precision Motor Control in Major Depression*, Hogg Foundation, \$19,250 (2015-2016).

Mehta, Ranjana. *Obesity, Stress & Mobility Outcomes in Older Adults*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2015-2016).

Mehta, Ranjana. *Factoring in the Human in Offshore Operations: Forces for Scenario Planning*, National Academy of Sciences, Engineering, and Medicine (NAS), \$199,398 (2016-2017).*

Millard, Ann. *Care for Hispanic Patients (CHISPA): Integrated Behavioral Health to Reduce Risk of Diabetes & Depression*. Lower Rio Grande Valley Community Health, \$31,856 (2015-2016).

Millard, Ann. *A Promotora-led Walking Group and Healthy Eating Program for Social Networks in Colonias*, Knapp Community Care Foundation, \$342,127 (2015-2016).

Millard, Ann. *PODER Prevention of Diabetes & Dialysis through Education & Resources*, Methodist Healthcare Ministries of South Texas, \$80,000 (2016).*

Miller Nimmons, Katherine. *Colonia Integrated Care Program: Valley Interprofessional Development and Services (VIDAS)*. The University of Texas Rio Grande (prime is United Health Foundation), \$29,076 (2015-2016) [CCHD].

Miller Nimmons, Katherine. *Cancer Survivorship Curriculum Development and Implementation*, Texas Department of State Health Services, \$91,520 (2016-2017) [CCHD].*

Morrisey, Michael. *All Kids Proposal for Special Projects*, subaward from The University of Alabama Birmingham (prime is Alabama Department of Health, Centers for Medicare and Medicaid Services) \$31,500 (2016-2017).*

Ohsfeldt, Robert. *Technology Directed Advanced Radiation Therapy of Lung Cancer*, subaward from the University of Texas Southwestern Medical Center (prime is Cancer Prevention & Research Institute of Texas CPRIT), \$232,440, (2011-2017).

Ohsfeldt, Robert and Kum, Hye Chung. *Evaluation of Texas 1115 Medicaid Transformation Waiver*, Texas Health and Human Services Commission (TxHHSC), \$2,550,000 (2013-2017).

Ohsfeldt, Robert and Kum, Hye Chung. *Integration of Primary Healthcare into Behavioral Healthcare*, Texas Health and Human Services Commission (TxHHSC), \$578,628 (2014-2017).

Ory, Marcia G. *It Takes a Village- A Multi-Level Evaluation of the State Driven Fall Prevention Project*, Special Interest Project (SIP), subaward from University of North Carolina (prime is CDC), \$130,268 (2014-2016) [CPHA].

Ory, Marcia G. (Co-PI) and **Carol Rice** (PI). *Working on Wellness (WOW)*, Centers for Disease Control & Prevention, \$2.68M, (2014-2017) [CPHA].

Ory, Marcia G. and **Hong, Alicia.** *Center for Healthy Active Living*, Texas A&M Engineering Seed Grant Program, \$50,000 (2014-2016) [CPHA].

Ory, Marcia G. *Brazos Valley Area Agency on Aging Evidence Based Programs for Seniors*, Brazos Valley Council of Governments Area Agency on Aging, \$58,200 (2013-2018) [CPHA].

Ory, Marcia. *Healthy South Texas*, State of Texas, \$5,000,000 (2016-2017).*

Ory, Marcia G. *Physical Activity Impacts of a Planned Activity-Friendly Community: The What, Where, When, and Why of Environmental Approaches to Obesity Prevention*, National Institutes of Health, \$2,684,000 (2015-2020) [CPHA].

Ory, Marcia G. *Falls Reduction Education and Empowerment (FREE) Partnership*, Subaward from United Way Tarrant County (prime is Administration on Aging), \$163,083 (2015-2017) [CPHA].

Ory, Marcia G. *SUSTAIN for Better Health and Health Care for Older Adults*, DHHS Administration for Community Living (ACL), \$895,189 (2016-2018) [CPHA].*

Ory, Marcia G. *Texans Working Together for a Falls Free Tomorrow*, Wellmed Charitable Foundation, \$20,000 (2015-2016) [CPHA].

Ory, Marcia G. *Texas Comprehensive Cancer Survivorship Education Program*, Texas Department of State Health Services, \$34,430 (2015-2016) [CPHA].

Ory, Marcia G. *Texercise Select: Building the Evidence-Base*, Texas Department of State Health Services, \$405,895 (2015-2017), [CPHA].

Ory, Marcia. *Texas Model for Dementia Capable Communities*, Texas Council on Alzheimer's Disease and Related Disorders (TARCC), \$399,344 (2016-2017) [CPHA].*

Peres, S. Camille. *Smart Procedures™ Usability Testing*, Applied Technical Resources (ATR, Inc), \$142,300 (2014-2016).

Peres, S. Camille. *Understanding Workload for Remote Physiological Monitoring Workers: Maximizing Worker Efficiency and Maintaining Patient Safety*, Mayo Clinic, \$5,000 (2014-2016).

Peres, S. Camille. *Advanced Procedures Research Study Phase II, A Human Factored Approach*. TEES/Chevron Technology Ventures, \$37,464 (2015-2016).

Peres, S. Camille. *Advanced Procedures Research Study Phase II, A Human Factored Approach*. TEES/Exxon Mobil Production Company, \$37,464 (2015-2016).

Peres, S. Camille. *Advanced Procedures Research Study Phase III, A Human Factored Approach*. TEES/NOVA Chemicals, \$37,500 (2015-2017).

Peres, S. Camille. *Advanced Procedure Research Study Phase III, A Human Factored Approach*. TEES/Wyle Laboratories, \$10,000 (2016).*

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Peres, S. Camille. *Exploring Variables Associated with User's Satisfaction, Performance, and Physiological Responses Based on Keyboard Attributes*, Hewlett Packard, \$34,998 (2015-2016).

Peres, S. Camille. *NSF Eager: Humans, Teams, and Technologies: Human-Team and Team-Machine Interaction in Emergency Response*, National Science Foundation, \$239,870 (2016-2018).*

Peres, S. Camille. *Procedural Warnings*, Wright State University Center for Operator Performance, \$36,807 (2015-2016).

Peres-Patron, Maria. *Bayesian Forecasting of Spatio-Temporal Epidemiological Processes*, subaward from Texas A&M Engineering Experiment Station (prime is Avax), \$26,901 (2016).*

Pickens, Adam. *Optimization of Hardware for Optimal Data Collection Using a Mobile Hearing Screening Application (hEAR)*. Subaward from University of Texas Health Science Center Houston (prime is National Institute for Occupational Safety and Health), \$10,000 (2015-2016).

Pickens, Adam. *TTI (DOT): Evaluation of Safety Practices for Short Duration Work Zones (Phase II)*, subaward from Texas Transportation Institute (prime is Ohio Department of Transportation), \$46,925 (2016-2017).*

Quiram, Barbara. *High Consequence Infectious Disease Planning Table Top Exercises*. Texas Department of State Health Services, 499,988 (2015-2016) [USA].

Quiram, Barbara. *Proposal to Develop Text IT Messaging*. Campaign Targeting Adolescent Mothers and Breastfeeding in a Post-Conflict County (El Salvador), subaward from the Texas A&M Center on Conflict and Development (ConDev), United States Agency for International Development (USAID), \$25,000 (2016-2017) [USA].*

Radcliff, Tiffany. *Rural Lifestyle Eating and Activity Program (Rural LEAP)*, subaward from the University of Florida, (prime is NIH) \$73,253 (2013-2018).

Radcliff, Tiffany. *VEMEC IPA: VA Emergency Management and Evaluation Center Interagency Personnel Agreement*, U.S. Department of Veteran's Affairs, \$378,833 (2011-2017).

Rene, Antonio. *Renewal University Affiliation for Principles of Military Preventative Medicine Program of Instruction*, DOD-Army-U.S. Medcom-center for Health Care Contracting, \$693,393 (2013-2016).

Sharkey, Joseph R. *Salud Para Usted y Su Familia [Health for You and Your Family]: Family-Focused Childhood Obesity Prevention through a Systems-Oriented Multilevel Approach in Arizona, New Mexico, and Texas Border Area*, United States Department of Agriculture USDA National Institute of Food and Agriculture, \$4,904,638 (2015-2020).

Sharma, Virender. *Collaboration Research on Oxidative Elimination of Cyanotoxins by Ferrates (VI, VI, and IV)*, National Science Foundation, \$148,920 (2014-2016).

Sharma, Virender. *Mass Spectrometry and Detector*, Research Equipment Grant, Texas A&M University AUF, \$100,000 (2016) [ERGC].*

Sharma, Virender. *I-Corps: Ferrate Technology in Healthcare Surfaces Disinfection*, National Science Foundation, \$50,000 (2016-2017).*

Shipp, Eva. *Neuromotor Function and Work Injury Risk among Hispanic Adolescent Farmworkers (a.k.a. The HIP Project)*. The Southwest Center for Agricultural Health Injury Prevention and Education at The University of Texas Health Center at Tyler (prime is NIOSH/ CDC), \$724,345 (2011-2016).

Taylor, Brandie. *Host Genetic Susceptibility to Chlamydia-Associated Reproductive Morbidity*, American Sexually Transmitted Diseases Association (ASTDA), \$100,000 (2014-2016).

Taylor, Brandie. *The Role of Early Pregnancy Serum Markers of Cellular Damage, Innate Immune Signaling and Angiogenesis in Preeclampsia Subtypes*, The Discovery Foundation, \$181,507 (2015-2018).

Taylor, Brandie. *Identifying Biomarkers and Genetic Risk Factors Predictive of Reproductive Sequelae*. Subaward from University of North Carolina (prime is National Institutes of Health) \$56,106 (2015-2017).

Taylor, Brandie. *Maternal and Child Health Public Health Training Program*. Health Resources and Services Administration, \$350,000 (2015-2020).

Taylor, Brandie. *Short-Chain Fatty Acids in Adverse Pregnancy Outcomes*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2015-2016).

Tekwe, Carmen. *Novel Percentile-Based Statistical Methods to Model BMI Percentiles in Childhood Obesity*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2015-2016).

Xu, Xiaohui. *Interaction between Genes and Air Pollution in Relation to Cardiometabolic Risk in US Population*, Delta Omega Research Enhancement and Development Initiative Program (REDI), School of Public Health Pilot Funding Program, \$25,000 (2016-2017).*

Xu, Xiaohui. *K award: Associations between Ambient Air Pollution and Adverse Birth Outcomes in Florida*, National Institute of Environmental Health Sciences, \$629,535 (2011-2017).

Projects Key:

* Denotes newly awarded in CY2015.

[] Denotes Center affiliated projects

[CCHD] = Center for Community Health Development

[CHOT] = Center for Health Organization Transformation

[CPHA] = Center for Population Health and Aging

[ERGC] = The Ergonomics Center

[SRHRC] = Southwest Rural Health Research Center

[USA] = USA Center for Rural Public Health Preparedness

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- (3) Allen SJ, Meyer EU, **Sharkey JR**. Physical Activity of Mexican-origin Children: Examining Parental Support. *J. Health Care Poor Underserved* 2016;27(2):685-699.
- (4) Armstrong T*, Surya S, Elliott T, Brossart D, **Burdine J**. Depression and health-related quality of life among persons with sensory disabilities in a health professional shortage area. *Rehabilitation Psychology* 2016;61(3):240.
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- (7) Bello DM, **Han G**, Jackson L, Bulloch K, Ariyan S, Narayan D, Rothberg BG, **Han D**. The Prognostic Significance of Sentinel Lymph Node Status for Patients with Thick Melanoma. *Annals of Surgical Oncology* 2016 Dec;23(Suppl 5):938-945.
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- (10) Bronstein JM, **Morrisey MA**, Sen B, Engler S, Smith WK. Initial Impacts of the Patient Care Networks of Alabama Initiative. *Health Services Research* 2016 Feb;51(1):146-166.
- (11) Brown SA, Garcia AA, Brown A, Becker BJ, Conn VS, **Ramirez G**, Winter MA, Sumlin LL, Garcia TJ, Cuevas HE. Biobehavioral determinants of glycemic control in type 2 diabetes: A systematic review and meta-analysis. *Patient Education and Counseling* 2016;99(10):1558-1567.
- (12) Buchanan LR, Rooks-Peck CR, Finnie RK, Wethington HR, Jacob V, Fulton JE, Johnson DB, Kahwati LC, Pratt CA, **Ramirez G**. Reducing recreational sedentary screen time: A community guide systematic review. *American Journal of Preventive Medicine* 2016;50(3):402-415.
- (13) **Callaghan TH**, Jacobs LR. The Future of Health Care Reform: What is Driving Enrollment? *Journal of Health Politics, Policy and Law* 2016:3766710.
- (14) Chang AL, Pacheco M, Yoshino K, Miyamura J, **Maddock JE**. Comparison of Primary Cesarean Delivery Rates Among Low-Risk Women in Urban and Rural Hospitals in Hawaii. *Maternal and Child Health Journal* 2016 Sep;20(9):1965-1970.
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- (16) Cho J, Jiang L, Smith ML, **Ory MG**. Protective and risk factors for physical activity and falls among oldest-old adults enrolled in an evidence-based fall risk reduction program. *Activities, Adaptation & Aging* 2016;40(3):180-199.
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- (18) Choy LB, **Maddock JE**, Brody B, Richards KL, Braun KL. Examining the role of a community coalition in facilitating policy and environmental changes to promote physical activity: the case of Get Fit Kaua'i. *Translational Behavioral Medicine* 2016 Dec;6(4):638-647.
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- (213) Zhang P, Wu H, Zhou X, Lu Y, Yuan Z, Moore JB, **Maddock JE**. The Association between Family and Parental Factors and Obesity among Children in Nanchang, China. *Frontiers in Public Health* 2016 Aug 12;4:162.
- (214) **Zheng Q**. A second look at the final number of cells in a fluctuation experiment. *Journal of Theoretical Biology* 2016;401:54-63.
- (215) **Zheng Q**. Comparing mutation rates under the Luria-Delbrück protocol. *Genetica* 2016:1-9.
- (216) **Zoh RS**, Mallick B, Ivanov I, Baladandayuthapani V, Manyam G, Chapkin RS, Lampe JW, Carroll RJ. PCAN: Probabilistic correlation analysis of two non-normal data sets. *Biometrics* 2016;72(4):1358-1368.

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- (1) **Appiah B.** From the lab to the community: a community-based research strategy to promote rational use of herbal medicines. 2016 West African Society for Pharmacologists Conference in Ghana. July 2016.
- (2) **Ardoin W, Hoyle W*, Bewaji T*, Ferris T, Peres S, Hallbeck S, Kaplan R and Brady P.** Real-time remote physiological monitoring The role of communication in three paradigms of inpatient care. Human Factors and Ergonomics Society Annual Meeting, Washington DC. September 2016.
- (3) **Baber O*, Spengler J and Maddock JE.** Brownfield-to-greenspace redevelopment: A nationwide socio-spatial analysis. Active Living Research National Conference. Clearwater Beach, FL. February 2016.
- (4) **Barr S* and Sharkey J.** Paseo por el Super: A Tool for Teaching Low-Income Mexican-Heritage Mothers to Navigate the American Supermarket. Society for Nutrition Education and Behavior's 49th Annual Conference, San Diego, CA. July 2016.
- (5) **Benden M.** Sedentary Behavior Modifiers and Health Impacts. ORCHSE, Washington DC. February 2, 2016.
- (6) **Benden M.** Call Center Productivity Study. Office Ergonomics Research Committee, Houston, TX. May 11, 2016.
- (7) **Benden M.** The Future of Office Work. Austin Ergo Roundtable, Austin, TX.. February 12, 2016.
- (8) **Benden M.** A Day in the Life of a Professional Ergonomist. Applied Ergonomics Conference, Orlando, FL. March 23, 2016.
- (9) **Bennett N, Margolis A, Garney W, Wilson K, Farmer J, McLeroy K, Swiader L and Sullentrop K.** Enabling Early Innovation to Advance Adolescent Health. American Public Health Association Annual Meeting, Denver, CO. October 29 - November 2, 2016.
- (10) **Blackburn J, Morrissey MA and Sen B.** Costs and Outcomes Associated with Early Preventive Dental Care among Medicaid-Enrolled Children in Alabama. Annual Conference of AcademyHealth, Boston, MA. June 27, 2016.
- (11) **Bolin J.** A CPRIT-funded prevention program to improve access to colorectal, breast and cervical cancer screenings for low-income and underserved persons in Texas. 2016 American Cancer Society (ACS) Cancer Action Network (CAN) Texas Cancer Policy Forum. Austin, TX. Aug 2, 2016.
- (12) **Bridges L* and Benden M.** Evaluation of an ergonomic desktop software. Houston Human Factors and Ergonomics Symposium, Houston, TX. June 3, 2016.
- (13) **Callaghan T, and Lawrence H.** Policy Cascades: Public Enrollment in the Affordable Care Act. American Political Science Association, Philadelphia, PA. September 2016.
- (14) **Callaghan T.** The Governor's Pulpit: Executive Influence over the Legislative Agenda in the American States. Midwest Political Science Association, Chicago, IL. April 2016.
- (15) **Chung A, Shin G*, Chen H*, Mane K and Kum H.** Reimagining the Personal Health Record: Patients as Co-Designers. American Medical Informatics Association 2016 Annual Symposium, Chicago, IL. November 2016.
- (16) **Cichocki J, Furuya S, Chappell G, Venkatratnam A, Sweet S, Wade T, Knap A, McDonald T, Chiu W, Threadgill D and Rusyn I.** Inter-individual Variability in the Relationship between Toxicokinetics and Toxicodynamics of Tetrachloroethylene. Society of Toxicology International Meeting, New Orleans, LA. February 2016.
- (17) **Farmer J, Wilson K, Garney W and McLeroy K.** A project to support and enable early innovation in teen pregnancy prevention. Texas Campaign to Prevent Teen Pregnancy's 5th Annual Symposium, Austin, TX. April 11 - 13, 2016.
- (18) **Ferdinand AO.** Public Health Practice and Research at the Texas A&M School of Public Health-Impact of Texting While Driving Bans. Texas Public Health Association Meeting, Galveston, TX. April 11-13, 2016.
- (19) **Ferdinand AO, Morrissey MA and Aftab A*.** The Great Recession, Gas Prices, Regulation and Motor Vehicle Fatalities Involving Commercial Vehicles. 6th Biennial Meeting of the American Society of Health Economists, Philadelphia, PA. June 13, 2016.
- (20) **Forjuoh S, Ory M, Won J, Towne S, Wang S and Lee C.** Neighborhood safety and obesity in middle-aged and older community-dwelling adults. International Diabetes and Obesity Summit, Dubai, UAE. October 18-20, 2016.
- (21) **Forjuoh S, Won J, Ory M, Towne S, Wang S and Lee C.** Neighborhood safety and injury prevention among older adults: A systematic literature review. 12th World Conference on Injury Prevention and Safety Promotion, Tampere, Finland. Sept. 18-21, 2016.
- (22) **Garcia TP and Ma Y.** Simultaneous treatment of unspecified heteroskedastic model error distribution and mismeasured covariates for restricted moment models. Newest Developments and Urgent Issues in Measurement Error and Latent Variable Problems, Banff, Canada. August 2016.
- (23) **Garcia TP and Muller S.** Cox regression with exclusion frequency-based weights to identify neuroimaging markers relevant to Huntington's disease onset. . 2016 International Biometric Conference, Victoria, Canada. July 2016.
- (24) **Garcia TP and Muller S.** Cox regression with exclusion frequency-based weights to identify neuroimaging markers relevant to Huntington's disease onset. 2016 Eastern North American Region International Biometric Society Spring Meeting, Austin, TX. March 2016.
- (25) **Garney W, King Hahn L, McLeroy K, Garcia K, Taffe V and Martin E.** AHA's national implementation model to implement chronic disease prevention efforts nationally. American Public Health Association Annual Meeting, Denver, CO. October 29 - November 2, 2016.
- (26) **Griffith J, Ross J and Ramirez G.** An Integrative Framework for Academic Program Assessment and Evaluation in a New BSPH Degree Program. Undergraduate Public Health and Global Health Education Summit, Arlington, VA. March 2016.
- (27) **Han G.** A Hybrid M-Estimation Method with Application in Simultaneous Tuning and Calibration for Computer Experiments. Joint Statistical Meetings, Chicago, IL. July 30 – August 4, 2016.
- (28) **Han G.** A Prospective, Multi-Institutional Assessment of Four Assays for PD-L1 Expression in NSCLC by Immunohistochemistry. International Association for the Study of Lung Cancer 2016 Multidisciplinary Symposium in Thoracic Oncology, Chicago, IL. September 22 – 24, 2016.
- (29) **Han G.** Improved Survival Analysis in Two Personalized Breast Cancer Studies. Department of Biostatistics and Bioinformatics, Moffitt Cancer Center, Tampa, FL. May 13, 2016.
- (30) **Han G.** Improved Survival Analysis in Two Personalized Breast Cancer Studies. Smilow Cancer Hospital at Yale-New Haven, Yale University School of Medicine, New Haven, CT. July 28, 2016.
- (31) **Han G.** Improved Survival Analysis in Personalized and Translational Cancer Research. Center for Translational Research in Aging & Longevity. Department of Health & Kinesiology, Texas A&M University, TX. November 4, 2016.
- (32) **Horney J.** Enhancing interaction among faculty and young student researchers. Texas A&M Graduate and Professional Student Council Student Research Week, College Station, TX. February 5, 2016.
- (33) **Horney J.** Public Health Practice and Research at the Texas A&M School of Public Health – EpiAssist. Texas Public Health Annual Conference, Galveston, TX. April 2016.
- (34) **Horney J, Carbone E, Lynch M and Jones T.** Evaluating and Improving the 15 Public Health Emergency Preparedness Capabilities. NACCHO Public Health Preparedness Summit, Dallas, TX. April 2016.
- (35) **Horney J and Feldt B.** Measuring mental health recovery from wildfires using CASPER. National Disaster Epidemiology Workshop, Atlanta, GA. May 17, 2016.
- (36) **Horney J, Rosenheim N*, Radcliff T and Zhao H.** Utilizing Secondary Data to Assess the Health and Health System Impacts of Natural and Technological Disasters in the Gulf. Census Research Data Centers Annual Conference, College Station, TX. September 2016.
- (37) **Horney J, Simon M and Grant N.** Can we measure successful recovery? NACCHO Public Health Preparedness Summit, Dallas, TX. April 2016.

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- (38) Horrell L, Smith M, Kneipp S, Ahn S, **Towne S**, Mingo C and **Ory M**. Chronic Disease Self-Management Education Programs: A Comparison of Middle-Aged Adult Participants by Income. American Public Health Association Annual Conference, Denver, CO. October 29-November 2, 2016.
- (39) **Johnson N**, Pulczynski J, Rychlik K, Guo J, Shi W, **Carillo G**, Zietsman J, Vallamsundar S, Koehler K, Levy M and Zhang R. Biomarkers of prenatal exposure to particulate air pollution. American Chemical Society National Meeting, Philadelphia, PA. Aug 21-25, 2016.
- (40) **Kash B**. Emerging models of healthcare delivery: Implications for organizations and training. Industrial and Systems Engineering Seminar. College Station, TX. November 11, 2016.
- (41) **Kash B**. Perioperative Surgical Care Models explored: Quality, Cost, Human Factors, and Policy Considerations. 6th Annual International Conference in Computational Surgery (COSINE 6). Bordeaux, France. May 25 -26, 2016.
- (42) **Kash B**. Change-Readiness: How to design facilities in an ever-changing health policy environment. Medical World Americas Conference co-sponsored by ACHE, Houston, TX. May 2016.
- (43) **Kash B**. How Manufacturing and Health Systems Work as Partners towards Population Health. Medical World Americas Conference co-sponsored by ACHE, Houston, TX. May 2016.
- (44) **Kash B**. Strategic Approach to the Business of Health in Africa. Building Sustainable One Health Communities, UBRICA U.S. - Africa Relations Conference. College Station, TX. April 2016.
- (45) Kellstedt D*, Li Y, **Towne S**, Lopez M, Walton C, Ranjit N, Smith C, Warren J and **Ory M**. Program Implementation Effects: An Evaluation of the Texas Grow! Eat! Go! Intervention Study. Texas Public Health Association's 92nd Annual Education Conference. Galveston, TX. April 11-13, 2016.
- (46) Kim S, Connaughton D, **Spengler J** and Lee J. An examination of concussion safety policies in U.S. municipal park and recreation departments. North American Society for Sport Management Conference, Orlando, FL. June 2016.
- (47) Kim S, **Spengler J**, Connaughton D and Lee J. Legislative Efforts Designed to Reduce Sport-Related Concussions: A Review of State Concussion Statutes. Sport and Recreation Law Association National Conference. New Orleans, LA. March 2016.
- (48) **Kum H**. Incremental Interactive Record Linkage using Human Intelligence Tasks (HITs). 2016 International Population Data Linkage Conference, Swansea, UK. August 2016.
- (49) **Kum H** and **Ohsfeldt R**. Comparison of Data to Decision Models for a Data Consortia. 2016 Annual International Society for Pharmacoeconomics and Outcomes Research International Meeting, Washington DC. May 2016.
- (50) **Kum H** and Pranny J*. K-Anonymity Based Privacy Risk Budgeting System for Interactive Record Linkage. 2016 International Population Data Linkage Conference, Swansea, UK. August 2016.
- (51) **Kum H**. K-Anonymity Based Privacy Risk Budgeting System for Interactive Record Linkage. Newton Institute for Mathematical Sciences program on Data Linkage and Anonymisation Workshop on Data Linkage, Cambridge, UK. September 2016.
- (52) Lemon S, Goins KV, Schmid T, Arcaya M, Aytur S, Knodler M, Lyn R and **Maddock JE**. Building public support for active living environments: a qualitative analysis of the role of local health departments. Active Living Research Conference, Clearwater, FL. February 3, 2016.
- (53) Margerison-Zilko C, **Perez-Patron MJ** and Cubbin C. Residential Segregation, Political Empowerment, and Preterm Birth. Population Association of America, Washington, DC. March 2016.
- (54) **Mehta R**, **Benden M**, **Peres S**, **Pickens A** and **Ory M**. Ergonomic risk behaviors among college students. Applied Ergonomics Conference, Orlando, FL. March 23, 2016.
- (55) **Morrisey MA**. Lessons from the ACA Going Forward. Center for Health Organization Transformation Annual Meeting, Houston, TX. April 8, 2016.
- (56) **Morrisey MA**, **Radcliff T** and Tien Y*. Price Searching in the Health Insurance Exchange. 6th Biennial Meeting of the American Society of Health Economists, Philadelphia, PA. June 13, 2016.
- (57) Ojinnaka C* and **Bolin J**. Increasing incidence of late-stage cervical cancer diagnosis: Persistent disparities. Epidemiology section of the American Public Health Association Annual Meeting & Expo, Denver, CO. Oct 29 – Nov 2, 2016.
- (58) Olson A, **Callaghan T**, and Karch A. Return of the 'Rightful Remedy': Nullification Legislation in the American States. Annual State Politics and Policy Conference, Dallas, TX. May 2016.
- (59) **Ory M**. Using the Past to Propel the Future. Research Laureate Presentation at the Annual Conference of the American Academy of Health Behavior. Ponte Vedra Beach, FL. February 2016.
- (60) **Ory M**. Tips for Healthy Aging. 2016 Professional Conference on A Day in the Life of Alzheimer's Disease, Houston, TX. May 2016.
- (61) **Peres S**. Unpacking the Phrase Human Factors and What it Means for Safety in Industrial Work Settings. Texas Chemical Council Safety Seminar, Galveston, TX. June 2016.
- (62) **Peres S**. Human Factors Methods and Procedures: What you can do now. BP Collaborative Safety Workshop, Houston, TX. 2016.
- (63) **Peres S**. Workers Experiences with Using Procedures: How Methods in Human Factors Can Help. IADC Human Factors Conference & Exhibition, Houston, TX. October 2016.
- (64) **Peres S**, Mannan M and Quddus N. Effective Procedure Design and Use: What Do Operators Need, When Do They Need It, and How Should It Be Provided? Offshore Technology Conference, Houston, TX. May 2016.
- (65) **Quiram B**. Academia and Governmental Public Health Working Together to Strengthen Community Resiliency and Recovery. 2016 National Public Health Preparedness Summit, Dallas TX. April 21, 2016.
- (66) **Quiram B**. Examining the Effectiveness of Implicit Bias Training in Medical School. Southern Group on Educational Affairs of AAMC, Austin, TX. April 14, 2016.
- (67) **Radcliff T**. Care Coordination across the Continuum: Ambulatory to Inpatient Care. National Healthcare Coalition Preparedness Conference, Washington, DC. December 2016.
- (68) **Radcliff T**, Chu K, der Martirosian K, Lukowski L and Dobalian A. Measures of Health System Preparedness Using Appointments Scheduling Data for Common Clinic Visits. Public Health Preparedness Summit, Dallas, TX. April 2016.
- (69) Rodriguez VH*, Lopez MY*, Martinez P*, Melo MA, Murtuza MM, Moralez J, Moya B, Pena J, **Millard AV**, Wickwire B, Carbajal E, Flores I, May M and Herrera A,. Diabetes Screening and Education: Viviendo en la Cuerda Floja. American Public Health Association Annual Meeting, Denver, CO. Oct. 29-Nov. 2, 2016.
- (70) **Schmit C**. Expanding Access to Vaccination Services: Pharmacist Vaccination Authorities. Public Health Law Conference, Washington DC. September 15, 2016.
- (71) **Schmit C**. Transitioning from Paper to Digital: State Statutory and Regulatory Frameworks to Address Health Information Technology. Nova Southeastern University Shepard Broad College of Law Symposium, Fort Lauderdale, FL. October 14, 2016.
- (72) **Schmit C**. Law, Technology, and Health Information. APHA Annual Meeting, Denver, CO. November 1, 2016.
- (73) Schmitz S, **Radcliff T**, Chu K, Smith R and Dobalian A. Training Evaluation and Future Steps for the Veterans Health Administration's Disaster Emergency Medical Personnel System. Disaster Health Education Symposium, National Center for Disaster Medicine and Public Health, Uniformed Services University, Bethesda, MD. September 2016.
- (74) Shah V*, Kirsch K, Cervantes D, Zane D, Haywood T and **Horney J**. Flash Flood Swift-Water Rescue, Texas, 2005-2014. Natural Hazards Center Annual Workshop, Broomfield, CO. July 2016.
- (75) **Sharkey J**. Thinking about the Complexity of Meeting the Dietary Needs of Mexican-Heritage Seniors in Texas Border. Experimental Biology 2016, San Diego, CA. April 2016.

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- (76) **Sharkey J.** Promotora-academic partnership to reduce nutritional health disparities among Mexican-heritage families in Texas border colonias. *Experimental Biology 2016*, San Diego, CA. April 2016.
- (77) **Sharkey J, Umstaddt Meyer M, McDonald J, Molina P and St. John J.** Salud Para Usted y Su Familia [Health For You and Your Family]: Constructive Evaluation of the Program-Planning Stage. Society for Nutrition Education and Behavior's 49th Annual Conference, San Diego, CA. July 2016.
- (78) **Sharma VK.** Ferrate Technology: Green and Sustainable in Water Treatment. Workshop on Environmental Iron Chemistry, Shanghai, China. 2016.
- (79) **Sharma VK.** Iron-, Silver-, and Carbon-Based Materials in Environmental and Energy Applications. Xiamen University, Xiamen, China. 2016.
- (80) **Sharma VK.** Ferrate as a Greener Compound: Oxygen Evolution from Water, Organic Synthesis, and Oxidative Transformation of Contaminants. Shaanxi University of Science and Technology, Xian, China. 2016.
- (81) **Sharma VK.** Reactive Species in Treatment of Water and Wastewater. Kunming University of Science and Technology, Kunming, China. 2016.
- (82) **Sharma VK.** Advances Made in Ferrate Technology to Treat Water and Wastewater. Nanjing University, Nanjing, China. 2016.
- (83) **Sharma VK.** Ferrate as a Greener Compound: Oxygen Evolution from Water, Organic Synthesis, and Oxidative Transformation of Contaminants. Nanjing University, Nanjing, China. 2016.
- (84) **Sharma VK.** Reactive Species in Treatment of Water and Wastewater. Western University, London, Ontario, Canada. 2016.
- (85) **Sharma VK.** Ferrate Technology: Advances made in Treating Water and Wastewater. Jiatong Xian University, Xian, China. 2016.
- (86) **Sharma VK.** Iron-, Silver-, and Carbon-Based Materials in Environmental and Energy Applications. Sun Yat Sen University, Guangzhou, China. 2016.
- (87) **Sharma VK.** Advances Made in Ferrate Technology to Treat Water and Wastewater. Chinese Academy of Science, Urumqi, China. 2016.
- (88) **Sharma VK.** Natural Nanoparticles in the Environment: Formation, Fate, and Toxicity. Chinese Academy of Science, Urumqi, China. 2016.
- (89) **Sharma VK.** Inorganic Nanoparticles in Natural Environment: Formation and Fate. Shandong University, Jinan, China. 2016.
- (90) **Sharma VK.** Ferrites in Sustainable Energy and Environmental Remediation: Mössbauer Spectroscopy Characterization. Mediterranean Conference on the Applications of the Mössbauer Effect, Cavtat, Croatia. 2016.
- (91) **Sharma VK.** Conducting Research and Publishing Scientific Research. Center of Cyanobacteria and Toxins, Academy of Sciences of the Czech Republic, Brno, Czech Republic. 2016.
- (92) **Sharma VK.** Iron-, Silver-, and Carbon-Based Nanomaterials in Environmental and Energy Applications. University of Texas at Arlington, Arlington, TX. 2016.
- (93) **Sharma VK.** Advances Made in Ferrate Technology in Treating Water and Wastewater. Dalian University of Technology, Dalian, China. 2016.
- (94) **Sharma VK.** Iron-, Noble Metals-, and Carbon-Based Nanomaterials in Environmental and Energy Applications. Institute of Urban Environment, Chinese Academy of Science, Xiamen, China. 2016.
- (95) **Sharma VK.** Pulse Radiolysis Studies of Ferrates. Tongji University, Shanghai, China. 2016.
- (96) **Sharma VK.** Advances Made in Ferrate Technology to Treat Water and Wastewater. Nanjing University, Nanjing, China. 2016.
- (97) **Sharma VK.** Iron-, Silver-, and Carbon-Based Nanomaterials in Environmental and Energy Applications. Nanjing University, Nanjing, China. 2016.
- (98) **Sharma VK.** Advances Made in Ferrate Technology to Treat Water and Wastewater. Huaqiao University, Xiamen, China. 2016.
- (99) **Sharma VK.** Iron- and Carbon-Based Materials in Energy and Environmental Applications. Xiamen Institute of Technology, Xiamen, China. 2016.
- (100) **Shortz A*, Mehta R and Benden M.** Standing up for learning: a pilot investigation on neurocognitive benefits of stand-biased school desk. Applied Ergonomics Conference. Orlando, FL. March 21-24, 2016.
- (101) **Simon M, Decosimo K and Homey J.** Collect SMART: An Easy to Use Mobile App and Project Management Dashboard to Facilitate Field Data Collection. NACCHO Public Health Preparedness Summit, Dallas, TX. April 2016.
- (102) **Smith M, Adler C, Patel A, Venigalla S, Ahn S, Towne S, Bergeron C, Bien M and Ory M.** Factors associated with healthcare-related frustrations among adults with chronic conditions. Gerontological Society of America Annual Conference, New Orleans, LA. November 16-20, 2016.
- (103) **Smith M, Shubert T, Schneider E, Wilson A, Towne S and Ory M.** Systems change for fall prevention program delivery. Gerontological Society of America Annual Conference, New Orleans, LA. November 16-20, 2016.
- (104) **Sonaiké I*, Bewaji T*, Ritchey P* and Peres S.** The Ergonomic Impact of Swype. Human Factors and Ergonomics Society Annual Meeting, Washington DC. September 2016.
- (105) **Spengler J.** Panel Moderator of Olympians. United Nations International Sport & Social Impact Summit. Global Action Initiatives and IMG Academy, Sarasota, FL. June 2016.
- (106) **St John J and Sharkey J.** Training CHWs/Promotores to conduct platicas in a multi-border state obesity prevention study. National Rural Health Association, Minneapolis, MN. May 2016.
- (107) **Stasi S, Sharkey J, Umstaddt Meyer M, Gomez Montelongo L, McClendon M and Bridges C.** ¡Nosotros corremos, nosotros jugamos! [We run, we play!]: Children's Perceptions of Physical Activity in Mexican-heritage border Communities, 16th Annual Scientific Meeting of the American Academy of Health Behavior, Ponte Vedra Beach, FL. February 2016.
- (108) **Taylor B.** Host genetics and sexually transmitted infection related infertility. Friday Infectious Disease Conference, University of North Carolina, School of Medicine. March 2016.
- (109) **Taylor N.** Cancer Prevention and Control Research Training--Data Analysis and Management Workshop. Fogarty International Center—NIH, Moffitt Cancer Center, CoEmpower; Fez, Morocco. April 2016.
- (110) **Taylor B, Bass D, Ness R, Klebanoff M, Olsen J, Skogstrand K, Hougaard D, Roberts J and Haggerty C.** Differences in systemic maternal immune biomarkers by fetal sex. Society for Pediatric & Perinatal Epidemiologic Research Meeting, Miami, FL. June 2016.
- (111) **Taylor B, Zheng X, Darville T, Abiodun -Ojo O*, Konganti K, Ness R and Haggerty C.** Whole-exome sequencing to identify novel genes associated with infertility following chlamydial pelvic inflammatory disease. 2016 Epidemiology Congress of The Americas, Miami, FL. June 2016.
- (112) **Towne S, Ory M, Yoshikawa A and Smith M.** Public Health Practice and Research at the Texas A&M School of Public Health- Cost and Geospatial Distribution of Falls Among Older Adults. Texas Public Health Association's 92nd Annual Education Conference. Galveston, TX. April 11-13, 2016.
- (113) **Towne S, Probst J, Hardin J, Bell B and Glover S.** Geographic variations in the effects of the Great Recession on low-income adults. American Public Health Association Annual Conference, Denver, Colorado. October 29-November 2, 2016.
- (114) **Umstaddt Meyer M and Sharkey J.** Where can they run and play? Promotora partnerships in rural active living environmental assessments. 37th Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine, Washington DC. March-April 2016.
- (115) **Umstaddt Meyer M, Sumrall J, Walsh S, McClendon M and Sharkey J.** Where will they play? A description of the neighborhood physical activity resources available to Mexican-origin children residing in colonias along the U.S.-Mexico border. 2016 Active Living Research Conference, Clearwater Beach, FL. February 2016.

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(116) Wilson K, **McLeroy K**, Garney W, Alaniz A and Catanach C. The Context of Innovation in Teen Pregnancy Prevention Programs. 22nd IUHPE World Conference on Health Promotion in Curitiba, Brazil. May 22 - 26, 2016.

(117) Wilson K, **McLeroy K**, Garney W, Farmer J, Alaniz C and Catanach C. The Context of Innovation in Teen Pregnancy Prevention Programs. Society for Adolescent Health and Medicine, Washington, DC. March 9 - 12 2016.

(118) **Xu X** and Hu H. Ozone and Hypertensive Disorders of Pregnancy in Florida: Examining the Susceptible Exposure Windows. The 2016 Epidemiology Congress of the Americas. Miami, FL. June 21-24, 2016.

(119) **Zhao H**. Analysis of health costs with censored data. Department of Statistics and Quantitative Methods, University of Milano-Bicocca, Milan, Italy. 2016.

(120) **Zhao H**. Analysis of health costs with censored data. College of Statistics, Renmin University of China, Beijing, China. 2016.

(121) **Zheng Q**. The mutation frequency may mislead. 2016 Texas Branch Fall Meeting of the American Society for Microbiology, Richardson, TX. November 10--12, 2016.

(122) **Zoh R**. PCAN: Probabilistic Correlation Analysis of Two Nonnormal. International Chinese Statistical Association, Atlanta, GA. June 12-15, 2016.

(123) **Zoh R**. A Restricted Most Powerful Bayesian Test for Equality of Means in High Dimension via Random Projections. Joint Statistical Meetings, Chicago, IL. July 30 - August 4, 2016.

Faculty Research Interests by Department

Health Promotion and Community Health Sciences

Burdine, James. *Professor.* Measurement of Factors Influencing Community Capacity for Population Health Improvement; Community Health Development Strategies; Community Health Needs Assessment

Colwell, Brian. *Professor.* Adolescent Smoking Cessation; School Health Education; Youth Smoking Prevention; Adolescent Mental Health and Substance Abuse

Dowdy, Diane. *Assistant Professor.* Childhood Obesity Aimed at Prevention or Reduction; Physical Activity Programs to Community Settings; Physical Activity and Aging

Hong, Y. Alicia. *Associate Professor.* HIV/AIDS and STI Prevention Intervention; Mental Health of Women and Children Affected by AIDS; Mobile Technologies to Behavioral Interventions

McKyer, Lisako. *Associate Professor, Associate Dean for Climate and Diversity.* Maternal Child Health Disparities; Health Equity and Social Justice; Child Health Promotion; Diversity and Cultural Competence

McLeroy, Kenneth. *Regents Professor and Distinguished Professor.* Community Capacity; Community-based Approaches to Health Promotion/ Disease Prevention; Social Ecology and History of Public Health; Program Evaluation

Millard, Ann. *Associate Professor.* Border Health; Maternal Child Health; International Health; Occupational Health and Farm Workers; Primary Prevention of Type 2 Diabetes; Food Safety; Community-based Participatory Intervention Research

Ory, Marcia. *Regents Professor and Distinguished Professor, Associate Dean for Research.* Health and Wellness; Aging and Health Promotion; Healthy South Texas; Maternal and Child Health; Health Technology; Community Engagement; Translational Research

Sharkey, Joe. *Professor.* 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 Approach to Population Health

Spengler, John. *Professor, Department Head.* Active Living Policy and Obesity Prevention; Legal and Policy Issues around Injury Prevention; Physical Activity and the Built Environment; Risk Management Policy and Implementation in Sport and Recreation

Tai-Seale, Tom. *Associate Professor.* Local Health Systems Development; Community Empowerment of Chronic Disease Prevention; Program Planning; Evaluation for the Prevention and Control of Chronic Disease; Health Behavior Coaching

Towne, Samuel. *Assistant Professor.* The Intersection of Health and Place; Health-related Disparities; Health Outcomes; Access to Health Services among Aging, Minority, and Rural Populations

Epidemiology & Biostatistics

Garcia, Tanya. *Assistant Professor.* Genetic Mixture Models; High-dimensional Inference; Measurement Error; Mixed Models; Neurodegenerative Diseases; Nonparametric Models; Semiparametric Models; Survival Analysis

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

Han, Daikwon. *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. *Associate Professor.* Statistical Methods in the Development of Personalized Medicine; Design and Analysis of Phase I/III Clinical Trials and Translational Studies; Survival Analysis Methods in Cancer Research; HIV Viral Load Modeling; Bayesian Analysis; Statistical Computing

Horney, Jennifer. *Associate Professor.* Disaster Epidemiology Methods; Public Health Preparedness; Population-based Sampling; Public Health Systems and Services Research; Public Health Surveillance; Outbreak Investigation; Disaster Recovery; Community Resilience

Lillibridge, Scott. *Professor.* Biosecurity; Public Health Preparedness; Infectious Disease; Healthy South Texas

Maria Perez-Parton. *Assistant Professor.* Demographic Methods; Reproductive Health; Migration and Family Formation; Immigrant Health; Minority Aging

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

Shipp, Eva. *Associate Professor.* Injury Prevention; Occupational and Environmental Epidemiology; Farmworkers & Other Vulnerable Populations; Motor Vehicle Safety and Record Linkage; Electronic Health Records and Other Large Data Sets

Taylor, Brandie. *Assistant Professor.* Reproductive and Perinatal Epidemiology Methods; Identifying Genetic Markers and Biomarkers to Predict Risk of Reproductive/Pregnancy Complications; Prevention of Sexually Transmitted Infections

Tekwe, Carmen. *Assistant Professor.* Cancer Research; Nutritional Epidemiology; Radiation Epidemiology; Gerontology; Health Disparities; Bioinformatics; Proteomics; Measurement Error Models; Longitudinal Data Analysis; Survival Analysis; Applications of Generalized Linear Models; Neurostatistics; Functional Data Analysis; Mixed Effects Models

Xu, Xiaohui. *Associate Professor.* Air Pollution Epidemiological Studies; Maternal and Child Health; Environmental Exposure Assessment; Spatial Epidemiology

Zanwar, Preeti. *Instructional Assistant Professor.* Viral Infections in Cancer; Cancer Screening and Survivorship; Health Disparities and Disability; Epidemiology, Economics, Demography and Biology of Aging; Modelling Healthcare Costs and Counts; Health Technology and Health Outcomes

Zhao, Hongwei. *Professor.* Survival Analysis; Longitudinal Data Analysis; Quality-adjusted Life Time Estimation; Cost-effectiveness Analysis Conducted with Censored Data; Problems Arising from Correlated Data from Longitudinal Studies; Multilevel Epidemiological Studies ; Causal Inference

Zheng, Qi. *Associate Professor.* Mathematical Modeling of Biological Processes; Applied Stochastic Processes; Application of Computer Algebra

Faculty Research Interests by Department

Zoh, Roger. *Assistant Professor.* Biostatistics; Bayesian Inference, Reliability Modeling and Factor Analysis; Analysis of Genomic Data; Engineering Statistics; Bioinformatics; Functional Longitudinal Data Analysis; Machine Learning; Statistical Monitoring; Nutrition and Cancer Epidemiology

Health Policy & Management

Alexander, James. *Associate Professor.* Development of Community and Health Networks; Small Rural Hospital Leadership; Effectiveness of Critical Access Hospitals; Nursing Shortages

Bolin, Jane. *Professor.* Health Law and Ethics; Regulatory Compliance; Cancer Screening and Prevention; Diabetes Self-Management; Chronic Disease Management; Interdisciplinary and Translational Research; Rural Health Research; Rural Healthy People 2020

Callaghan, Timothy. *Assistant Professor.* Health Politics; Medicaid Coverage and Expansion; Health Insurance Marketplace Enrollment and Regulation; Lobbying in the Health Sector; State Politics; Public Opinion; Executive Politics; Survey Design

Cote, Murray. *Associate Professor.* Health Care Operations; Patient Flow, Capacity Planning and Management; Demand Forecasting; Nurse Staffing and Scheduling

Fairchild, Amy. *Professor.* Immigrant Health Inspection; Disease Control; Disease Surveillance and Privacy; Public Health Issues; Tobacco Control

Ferdinand, Alva. *Assistant Professor.* Impact of Laws and Other Policies Relative to Public Health Outcomes: Roadway Safety, Obesity, and Access to Care; State and Federal Regulation of Health Care and Community Health Development

Hatala, Jeffrey. *Assistant Professor, MPH Program Director.* 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

Kash, Bitu. *Associate Professor.* Organizational Capacity for Change and Transformation; Change Implementation in Healthcare; Healthcare Strategic Planning and Marketing; Evaluation of Integrated Primary Care Networks; Quality and Cost of Care; Strategic Management in Nursing Homes

Kum, Hye-Chung. *Associate Professor.* Data Science for Health Care; Population Informatics; Health Informatics; Health Policy Research; Program Evaluation Using Big Data; Decision Support Systems for Health Policy and Management

McMaughan, Darcy. *Assistant Professor.* Access to Care for Children and Youth with Special Health Care Needs; Community Participation, Independent Living and Social Integration for People with Disabilities; Quality of Care in Long Term Supports and Services; Assessment of Functional Ability and Care Need

Morrisey, Michael. *Department Head, Professor.* Employer-sponsored Health Insurance; Affordable Care Act; Medicare & Medicaid; Effects of Legislation on Health and Health Care; Hospital Economics; Price Transparency in Health Care

Ohnsfeldt, Robert. *Professor.* Cost-Effectiveness and Cost Models; Economics of Health Behavior; Impact of Health Sector Regulation

Quiram, Barbara. *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. *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; Economic Evaluation

Schmidt, Cason. *Research 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

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

Environmental & Occupational Health

Benden, Mark. *Associate Professor.* Office Worker Obesity, Classroom Ergonomics and Childhood Obesity; Medical Device Development and Testing; Rehabilitation Engineering

Bokelmann, AnnaMaria. *Assistant Professor.* Environmental Health; Site Assessment; Regulatory Compliance, Health and Safety

Carrillo, Genny. *Associate Professor.* Public Health and US-Mexico Border Health Issues; Interactions of Human Health and the Environment; Asthma in School Children; Home Safety and Healthy Homes

Cizmas, Leslie. *Assistant Professor.* Environmental Health and Xenobiotic Exposures; Assessment of Pesticide Exposure in Children; Development of Effective Methods for Exposure Reduction; Community Health Education; Environmental Justice and Health Disparities; Global Health

Johnson, Natalie. *Assistant Professor.* 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; K-12 Environmental Education; Undergraduate Research Mentoring; Environmental Sustainability; Healthy Gardens

Maddock, Jay. *Dean, Professor.* Social Ecological Approaches to Increasing Physical Activity; Nutrition, Tobacco Use, and Global Health

McDonald, Thomas. *Professor.* Environmental Chemistry; Petroleum Geochemistry; General Organic Chemistry

Faculty Research Interests by Department

Mehta, Ranjana. *Assistant Professor.*

Neuroergonomics; Operator Stress and Fatigue;
Obesity and the Aging Brain; Falls Prevention

Mendoza-Sanchez, Itza. *Research Assistant*

Professor. Mathematical and Experimental Models for
Assessing Transport; Organics Trapped and Sorbed in
Soils as a Source Zone of Groundwater Contamination;
Water Balance Modeling.

Peres, S. Camille. *Assistant Professor.*

Biomechanics of Human Computer Interactions; Design
Guidelines for Auditory Displays; Usability of Home
Health Care Technology

Pickens, Adam. *Assistant Professor.* Ergonomic

Tool Development; Occupational Safety Screening/Tool
Development; Upper Extremity Modeling; Manual
Materials Handling; Occupational Biomechanics

Rene, Antonio. *Professor and Associate Dean for*

Academic Affairs. Occupational/Environmental; Chronic
Disease Epidemiology; Research Training

Sharma, Virender. *Department Head, Professor.*

Iron-Based Oxidants (Ferrates and Ferrites); Kinetics
and Mechanism of High-Valent Transition Metals;
Advanced Oxidation Methods; Solar-Based Photoactive
Materials in Water Treatments; Green Synthesis of
Nanoparticles; Formation, Fate and Toxicity of
Nanoparticles in Aquatic Environment

Clendenin, Angela. *Instructor.* Risk

Communication; Decision Analysis; Emergency
Management and Emergency Communications;
Cultural/Social Influences on Communication/
Decision-Making; Communications Measurement and
Assessment; Public Health Preparedness and
Response for Refugee Populations; Teaching as
Research

Griffith, Jennifer. *Assistant Professor.* Public Health

Emergency Preparedness and Response; Intervention
Implementation, Management and Evaluation

Kodatt, Stephanie. *Assistant Professor.* Leadership;

Spirituality; Management; Mental Health

Lin, Sherry. *Instructional Assistant Professor.*

Preventive Care Services; Disabilities Research;
Vulnerable Populations

Mier, Nelda. *Associate Professor.* Chronic Disease

Prevention; Quality of Life through Behavioral Change in
Hispanics living in Border Region; Intervention
Research to Enhance Physical Activity Using a
Culturally Sensitive Paradigm; Diabetes Prevention
Among Children and Adults in the Border Region;
Promotoras Model in Border Region

Millard, Ann. *Associate Professor.* Obesity Across

the Life Course and Its Economic Implications;
Prevention of Type 2 Diabetes; Reproductive Health
and Birth Outcomes; Breastfeeding and Health;
Tuberculosis and Health Policy in the US and Abroad;
Occupational Health and Farm Workers;
Communication of Complex Health Information to
Community Members

Ramirez, Gilbert. *Department Head, Professor.*

Systematic Review and Meta-Analytic Methodology;
Decision Making Sciences; Evidence-Based Practice

Ross, Jennifer. *Instructional Assistant Professor.*

Environmental Contaminants and Exposures;
Occupational Injury and Diseases; Health Disparities in
Underserved Populations

Public Health Studies

Appiah, Bernard. *Assistant Professor.* Public

Engagement; Communication; mHealth and Mass
Media Interventions for Behavior Change; Global
Health; Knowledge Dissemination; Design,
Implementation and Evaluation of Socio-behavioral
Interventions; Social Network Analysis; Mixed Methods

Campos-Bowers, Monica. *Instructional Assistant*

Professor. Nutrition and Agriculture; Global Health in
Developing Communities

Carrino, Gerard. *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



2016 Graduate Student Research Winners

L-R: Dr. Marcia Ory, Bhagath Chirra-3rd place, Taylor Neher-2nd place, Amber Trueblood-1st place, Dean Jay Maddock

The report is prepared by the School of Public Health Office of Research with contributions from faculty and staff.

For more information regarding this report or research at SPH, please contact Linnae Hutchison, Director, at the contact number or website listed below.

Office of Research

● **sph.tamhsc.edu/research**

● **979.436.9418**