Gang Han

CONTACT INFORMATION	Texas A&M University School of Public Health Office 210, 1266 TAMU, 212 Adriance Lab Road, College Station, Texas 77843-1266 Email: gang.han@tamu.edu

EDUCATION

Ph.D. in Statistics, The Ohio State University, 2008
- Dissertation Title: "Modeling the Output from Computer Experiments Having Quantitative and Qualitative Input Variables and Its Application"

M.S. in Statistics, The Ohio State University, 2005

B.S. in Computer Science, Beijing University of Technology, Beijing, China, 2003

RESEARCH AREAS

Statistical models of cancer survival, statistical methods for personalized medicine, design and analysis of Phase I/II clinical trials and translational studies, Bayesian methods, design and analysis of computer experiments, stochastic processes.

POSITIONS

- Career/Academic Appointments:
  - Professor of Biostatistics. Department of Epidemiology and Biostatistics, School of Public Health, Texas A&M Heath Science Center, Texas A&M University, September 2022 – present
  - Joint Professor, School of Nursing, Texas A&M Heath Science Center, Texas A&M University, September 2022 – present
  - Associate Professor of Biostatistics. Department of Epidemiology and Biostatistics, School of Public Health, Texas A&M Heath Science Center, Texas A&M University, 2016 – 2022
  - Joint Associate Professor, College of Nursing, Texas A&M Heath Science Center, Texas A&M University, 2019 – 2021
  - Adjunct Member, Department of Pathology, School of Medicine, Yale University, 2015 – 2016
  - Biostatistics Consultant, Metamark Genetics Inc., 2015 – 2016
  - Associate Research Faculty, Department of Biostatistics, School of Public Health, Yale University, 2012 – 2015
  - Associate Research Faculty, Program of Applied Translational Research, School of Medicine, Yale University, 2012 – 2013
  - Biostatistician and Research Scientist, H. Lee Moffitt Cancer Center & Research Institute, 2008 – 2012;
  - Research Associate, Department of Statistics, The Ohio State University, 2005 – 2008
  - Research Associate, Hospital for Special Surgery, Cornell University, 2005 – 2008

- Research Fellow Internship, The Statistical and Applied Mathematical Sciences Institute (SAMSI), 2006
- Statistical Consultant, School of Social Work, The Ohio State University, 2004 – 2005

- Teaching Appointments
  - Mentoring
    - Texas A&M University, School of Public Health
      * Thesis advisor of doctoral students: Laura Hopkins (2023-present);
      * Thesis defense committee: Oluyomi Oloruntoba (2021-2024), Temitope Olokunlade (2021-2023), Parag Sharma (2017-2018), Shinduk Lee (2016-2018);
      * Academic advisor for master students: King David Oware (2023-2025), Ashley M Kurian (2022-2024), Dana Pittman (2022-2024), Lucas Wilson (2021-2023), Lorraine Madewell (2020-2022), Samantha Chang (2020-2022), Catherine Hessler (2020-2022), Abimbola D. Famurewa (2018-2020), Monica Duque (2017-2019), Chikaodinaka I. Chikwendu (2017-2019), Jeongwon Han (2017-2019), Tricia L. Salzar (2018-2019), Kendall Pye (2016-2018), Ayodele Bankefa (2016).
      * Mentor of master student workers: Natalie Olson (2019-2020), Heta H. Gandhi (2018-2020), Ang Xu (2017-2018)
    - Texas A&M University, Department of Computer Science & Engineering: Yu Zhang (2017).
    - Texas A&M University, School of Nursing: Martin Mufich (2020-2023).
    - Texas A&M University, Department of Landscape Architecture and Urban Planning: Chad Southerland (2021-2024).
    - Duke University: Brandon Zhao (2017).
    - Yale University, School of Medicine: Hallie Wimberly (2013-2014), Harib Ezaldein (2014-2015), Susan Combs (2014-2015).
    - Yale University, School of Public Health: Vicky Qi Yang (2014-2015).
    - Wesleyan University: Madeline A Coulter (2014).
    - University of South Florida: Bianca Koohbanani (2011-2012), Candace Haddox (2012-2013).
  - Classes Designed and Taught
    10. Data management II (PHLT 315), Fall 2023
    9. School of Public Health Core Curriculum (SOPH 601, SOPH 602, SOPH 603), sessions on quantitative methods, School of Public Health, Texas A&M University, Fall 2018, Fall 2019, Fall 2020
    8. Bayesian Computational Methods, The Institute of Statistics and Big Data (ISBD) at The Renmin University of China, Beijing, China, April 2018, May 2019, May 2021
    7. Biostatistics I online session (PHEB602.699; PHEB602.700), School of Public Health, Texas A&M University, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020

6. Biostatistics I classroom session (PHEB602.600), School of Public Health, Texas A&M University, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020

5. Capstone Integrative Experience (SPH 680), *Special Topic on Translational Research and Personalized Medicine*, School of Public Health, Texas A&M University, Spring 2016

4. Biostatistics 101 for Cancer Researchers, H. Lee Moffitt Cancer Center & Research Institute, 2009 – 2012

3. Design and Conduct of Clinical Trials (guest instructor from Moffitt Cancer Center), Department of Epidemiology and Biostatistics, College of Public Health, University of South Florida, Tampa, FL, 2010

2. Statistical Computing (STAT773, teaching assistant), Department of Statistics, The Ohio State University, 2008

1. Elementary Statistics (STAT103), Department of Statistics, The Ohio State University, 2007 – 2008

PROFESSIONAL SERVICE

- Internal Academic Service
  - Texas A&M University committees
    - Reviewer, Dr. Dionel Avilés '53 and Dr. James Johnson '67 Fellowship Program, 2023 – 2024
    - Member of Executive Committee, Council of Principal Investigators, September 2024 – present
    - Member of Council of Principal Investigators, September 2019 – present
    - Search Advisory Committee for the Dean of School of Public Health, March 2019 – December 2019
    - Search Advisory Committee for director of Texas A&M University Statistical Consulting Unit (SCU), March 2019 – December 2019
    - Member of the Texas A&M University Institutional Review Board (IRB), September 2018 – August 2021
  - Texas A&M School of Public Health (SPH) committees
    - Epi Biostat department Tenure/promotion committee chair, 2024 – present
    - Epi Biostat department Tenure/promotion committee, 2018 – 2024
    - Epi Biostat department course scheduling and assignment committee, 2023
    - Epi Biostat department biostatistics course planning committee, 2023
    - Search committee chair: Assistant and Associate professors (2 positions) of Biostatistics, Department of Epidemiology and Biostatistics, School of Public Health, Texas A&M University, College Station, TX, 2018 – 2019
    - SPH Core Curriculum Design and Planning Committee, 2017 – 2019
    - SPH Distance/Online Learning Committee, 2017 – 2018
    - SPH Teaching Excellence Assessment and Support Committee, 2017 – 2018
  - Other search committees for future employees
    - Faculty member, The Institute of Statistics and Big Data at the Renmin University of China, 2018

– Director, Biostatistics Consulting Center, Department of Epidemiology and Biostatistics, School of Public Health, Texas A&M University, College Station, TX, Summer 2016

– Assistant Professor of Epidemiology, College of Veterinary Medicine & Biomedical Sciences, College Station, TX, Spring 2016

– Biostatistician, Moffitt Cancer Center, Tampa, FL, 2009, 2010

- Search committee member for prospective students

– MPH in Biostatistics, Department of Epidemiology & Biostatistics, Texas A&M Univ., College Station, TX, 2016 – present

– Objective Review Panel for the 2016 Association of Schools & Programs of Public Health (ASPPH) Fellowships application, Texas A&M University, School of Public Health, 2016.

- Thesis committee member

– Jason Greenberg (Master of Science in Health Policy, Yale University, 2013-2015)

– Ibrahim Gwarzo (PhD in Epidemiology, School of Public Health, Texas A&M University, 2016-2018)

– Parag Sharma (DrPH in Environmental and Occupational Health, Texas A&M University, 2017-2018)

– Tricia Salzar (DrPH in Environmental and Occupational Health, Texas A&M University, 2017-2018)

– Oluyomi Oloruntoba (DrPH in Environmental and Occupational Health, Texas A&M University, 2020-2022)

– Temitope Olokunlade (DrPH in Epidemiology and Environmental Health, Texas A&M University, 2020-2022)

– Micheal Akinboro (DrPH in Epidemiology and Environmental Health, Texas A&M University, 2020-2022)

– Shane Brune (DrPH in Health Behavior, Texas A&M University, 2021-2023)

- Faculty reviewer for 2023-2024 Dr. Dionel Avilés '53 and Dr. James Johnson '67 Fellowship Program

- Attending university graduation commencement as the departmental representative

– Texas A&M University: Spring 2016, Summer 2017

- External academic service

- External reviewer for tenure promotion

– Yonggang Lu (Associate professor, College of Business and Public Policy, University of Alaska Anchorage, 2013-2014)

- Editorial and Review Service for Academic Journals

- Editorial service: academic editor of *PLoS ONE*, associate editor of *Journal of Health Science & Education*, guest editor of *International Journal of Environmental Research and Public Health*

- *Ad Hoc* reviewer

- Statistical science/research journals: *Technometrics, Statistics in Medicine, Statistica Sinica, Journal of Applied Statistics, Computational Statistics & Data Analysis, Scandinavian Journal of Statistics, Bioinformatics, Journal of Biopharmaceutical Statistics, Lifetime Data Analysis, Journal of Statistical Distributions and Applications, Journal of Probability and Statistics, Statistical Modelling, BMC Bioinformatics, Computational and Mathematical Methods in Medicine, METRON: International Journal of Statistics, Journal of Advanced Statistics, SpringerPlus, PLoS ONE, BMC Genomics, F1000research*
  - Health science/research journals: *Lancet HIV, Journal of Clinical Oncology, JCO Clinical Cancer Informatics, Cancer Causes & Control, Lancet Regional Health, Innovation in Aging: An Open Access Journal of the Gerontological Society of America, EClinicalMedicine – a Lancent Journal, npj Digital Medicine, Archives of Pathology & Laboratory Medicine, Journal of Pediatric Rehabilitation Medicine, International Journal of Environmental Research and Public Health, Medical Problems of Performing Artists*
  - Engineering study journals: *International Journal of Services Operations and Informatics, International Journal of Imaging Systems and Technology*
- Reviewer for proposals and protocols: *The Online Collaborative Research Environment (Oncore)*

- Conference Service
  - Organizer of the Invited session "Development and Application of Bayesian methods in Drug Development," International Chinese Statistical Association Applied Statistics Symposium 2020, May 2020, Houston, TX
  - Session Chair of the Invited session "Identification of Biomarkers and Disease Mechanisms through Proper Biostatistics Analysis," International Chinese Statistical Association Applied Statistics Symposium 2019, June 2019, Raleigh, NC
  - Session Chair of the Topic Contributed session "Joint Modeling and Its Applications," Eastern North American Region (ENAR), International Biometric Society 2012 Spring Meeting, June 2012, Baltimore, MD

- Membership in Professional Organizations
  - *American Statistical Association* (2006-present)
  - *Institute for Operations Research and the Management Sciences* (2010-2011)
  - *American Public Health Association* (2016-present)

AWARDS

- PLOS ONE editorial board *Long Service Award* for over 5 years of dedicated service and commitment to the PLOS ONE Editorial Board, February 28, 2023
- Faculty Research Excellence Award (Associate/Full Professor), Texas A&M University School of Public Health, August 2021
- Research Enhancement and Development Initiative (REDI) Award, School of Public Health, Texas A&M University, 2016
- Statistics In Epidemiology Young Investigator Award at the Joint Statistical Meetings, Section on Statistics in Epidemiology, American Statistical Association, 2010

- Craig Cooley Memorial Award for exceptional scholarly excellence and leadership abilities, Department of Statistics, The Ohio State University, 2009
- Student Luncheon Scholarship, American Statistical Association, 2005
- Academic Achievement Award, Beijing University of Technology, 2002

MEDIA REPORT

- "Innovative statistical method reveals new insights into single-cell RNA sequencing," Vital Record: News from Texas A&M University Health Science Center, 2024
  https://vitalrecord.tamhsc.edu/
  innovative-statistical-method-reveals-new-insights-into-single-cell-rna-sequencing/
- "First-of-its-kind analysis gives more precise insight into factors driving up costs for type 2 diabetes patients," Vital Record: News from Texas A&M University Health Science Center, 2023
  https://vitalrecord.tamhsc.edu/
  first-of-its-kind-analysis-gives-more-precise-insight-into-factors-driving-up-costs-for-type-2-diabetes-patients/
- "New statistical method could improve knee implants and skin cancer treatment," Vital Record: News from Texas A&M University Health Science Center, 2022
  https://vitalrecord.tamhsc.edu/new-statistical-method-could-improve-knee-implants-and-skin-cancer-treatment/
- "New method developed to inprove accuracy of disease diagnosis," Vital Record: News from Texas A&M University Health Science Center, 2022
  https://vitalrecord.tamhsc.edu/new-method-developed-to-improve-accuracy-of-disease-diagnosis/
- "New methods to improve analysis of clinical trial from waterfall plots: Study shows new way to use existing data and visualization tools to gain a greater understanding of cancer treatment efficacy in phase II clinical trials," Vital Record: News from Texas A&M University Health Science Center, 2021
  https://vitalrecord.tamhsc.edu/new-methods-to-improve-analysis-of-clinical-trial-data-from-waterfall-plots/
- "Researcher develops new method for use in historical control trial designs: New method proves more effective and accurate in determining number of individuals needed for historical control trials than existing techniques," Vital Record: News from Texas A&M University Health Science Center, 2020
  https://vitalrecord.tamhsc.edu/researcher-develops-new-method-for-use-in-historical-control-trial-designs/
- "How many participants do you need to conduct historical control trials?" Research at Texas A&M, 2020
  https://research.tamu.edu/2020/08/28/how-many-participants-do-you-need-to-conduct-historical-control-trials/
- "Using Statistical Methods in the Development of Precision Medicine," Vital Record: News from Texas A&M University Health Science Center, 2017
  https://vitalrecord.tamhsc.edu/using-statistical-methods-in-the-development-of-precision-medicine/
- "Texas A&M on Using Statistical Methods in the Development of Precision Medicine," Association of Schools and Programs of Public Health, 2017
  http://www.aspph.org/texas-am-on-using-statistical-methods-in-the-development-of-precision-medicine/

GRANTS

Pending Grant Applications

55. Mechanisms to improve social connectedness and health among older rural adults with chronic conditions

    - Agency: NIH
    - Role: Co-PI

- PI: M. Smith

54. Stable copper isotope ratios as biomarkers of hepatocellular carcinoma: clarifying the mechanisms for the protection against carcinogenesis
    - Agency: NIH
    - Role: Co-PI
    - PI: Franco Marcantonio

53. Feasibility and Acceptability of a Culturally Tailored Multidomain Mobile Technology Among Older Chinese and Korean Adults.
    - Agency: NIH R21
    - Role: Co-I
    - PI: J. Kim

52. The efficacy of an immersive nature-based virtual reality program on the mental health and quality of life among care facility residents with AD/ADRD
    - Agency: NIH R01
    - Role: Co-I
    - PI: J. Kim

51. Mindful Self-care intervention to improve health outcomes in persons with spinal cord injury: A pilot study.
    - Agency: Craig H. Neilsen Foundation
    - Role: Co-I
    - PI: M. Bhattarai

50. Prevention Research Center: Center for Community Health and Aging
    - Agency: DHHS-Centers For Disease Control and Prevention
    - Role: Co-I
    - PI: J. Burdine

49. Supporting Family Caregivers for Inclusion in Medical Decision Making
    - Agency: DHHS-Administration for Community Living
    - Role: Co-PI
    - PI: M. L. Smith

48. ReSET - Research to examine the impact of Sexual assault Evidence Tracking
    - Agency: U.S. Department of Justice Office on Violence Against Women
    - Role: Co-I
    - PI: N. Downing

47. Padres Empoderados: Reducing Mental Health Disparities in Depression among Hispanic Adolescent Girls through a Brief, Culturally-Sensitive Digital Parenting Intervention

- Agency: NIH
- Role: Co-I
- PI: A. Barry

46. Mindful Self-care intervention to promote well-being in forensic nurses: A pilot study
    - Agency: International Association of Forensic Nurses
    - Role: Co-I
    - PI: N. Downing, M. Bhattarai

45. Pharmacogenomic and Clinical Trials Optimization in Underrepresented Minorities
    - Agency: NIH
    - Role: Co-I
    - PI: George Udeani

44. An Innovative T.E.A.M. Approach in a Family-Centered, Technology-Supported Diabetes Education Program Leveraging Pharmacy and Community Partnerships in Underserved Populations
    - Agency: NACDS Foundation
    - Role: Co-I
    - PI: N. Purcell

43. Evaluation of a social-emotional learning (SEL) program for elementary-age students in 2 Texas school districts
    - Agency: Brady Education Foundation
    - Role: Co-I
    - PI: M. Smith

Ongoing Projects

42. A Naturalistic Study of Residents of an Agriculturally Integrated Community
    - Agency: Texas A&M Institute for Advancing Health Through Agriculture
    - Major goal: 1. Assess short-term changes in healthy eating (measured by MEPA-16); physical activity (measured by accelerometer); cardiometabolic health indicators (e.g., measured by BMI, blood pressure, and HbA1c); and social connectedness (measured by the Brief Sense of Community Scale). 2. Document time use with features of the Agrihood and assess consumer preferences for built and nature design features to provide resident-driven data for future developments. 3. Assess the economic benefits of the Agrihood.
    - Dates: February 1, 2025- March 1, 2026
    - Role: Co-I
    - PI: Jay E. Maddock

41. Texas A&M University System Health Science Center, Article III, Study on Mental Health Services for Children and Adolescents

   - Agency: The Texas Child Mental Health Care Consortium
   - Major goal: 1) Assess the current and future needs of children and adolescents for inpatient psychiatric services, residential services, partial hospitalization programs, intensive outpatient programs, outpatient services, community services, and school services. 2) Examine current hospital capacity for children and adolescents requiring inpatient care, timely access to patient care in the least restrictive setting as clinically appropriate, opportunities for patients to receive care closer to their homes, and efficient use of state resources. 3) Explore infrastructure needs including workforce, capacity needs across various regions of the state, and associated costs of services for children and adolescents with acute mental health needs.
   - Sponsor: The Texas Child Mental Health Care Consortium
   - Dates: September 1, 2023-August 31, 2025
   - Role: Co-I
   - PI: Israel Liberzon and Marcia G. Ory

40. Ultra Wideband Fall Detection and Prediction Solution for People Living with Alzheimer's Disease and Alzheimer's Disease Related Dementias

   - Agency: NIH SBIR ($838,957)
   - Major goal: The overall objective of this grant is to evaluate the Theora R 360 system in laboratory settings and real-world settings for ability to: 1) detect falls, 2) detect and predict changes in fall risk over time, and 3) develop a user-friendly system.
   - Sponsor: Clairvoyant Networks, Inc.
   - Dates: 09/01/2023-08/31/2025
   - Role: Co-I
   - PI: Marcia Ory

39. CHAMPion: Community Healthworkers Addressing Mental Health among Perinatal Women in an Underserved Region

   - Agency: NRSA ($2,800,000 for Texas A&M University)
   - Major goal: The project's two aims are to 1), Increase availability of relevant and culturally appropriate CHAMPion training related to maternal health (i.e., inclusive of prenatal and postpartum depression, available in English and Spanish) for those working in rural and remote areas with health provider and mental health provider shortages; 2) Integrate trained maternal CHAMPions into the health care support network to increase access to social support and information about maternal health and well-being for multiparous women.
   - Dates: 09/30/2023-09/29/2028
   - Role: Co-I

- PI: R. Page

38. GamePlan4Care: Web-based Delivery System for REACH II
    - Agency: National Institute of Health, 1 R01 AG061973-01 ($531,666)
    - Major goal: This R01 application to NIA is based on a practical approach of applying technology to an existing evidence based intervention, Recourses for Enhancing Alzheimer's Caregiver Health II (REACH II), with the goal of creating an online family caregiver support system that has the potential of both scalability and sustainability. The feasibility of our proposition has been established by the creation of GamePlan4Care, an online adaptation of the original REACH II intervention, with funding from the Texas Alzheimer's Research & Care Consortium (TARCC).
    - Dates: 09/01/2018 – 08/31/2024
    - Role: Co-Principal Investigator (at Texas A&M University) and Chief Statistician of the Whole Project
    - PI: A. B. Stevens, M. Ory

37. Utilizing the Pharmacy Advances Clinical Trials (PACT) Network to Achieve Diversity in COVID Clinical Trials: A Strategic Framework
    - Agency: Department of Health and Human Services U01FD007574, $1,000,000
    - Major goal: The central hypothesis is that the hesitancy of URM participation in clinical trials stems from long-standing mistrust, lack of culturally competent messaging, lack of access to care, and underrepresentation of authentic health champions. In addition, community-based pharmacists and pharmacy faculty have a unique role as community clinical researchers in recruiting URM populations as participants in COVID-19 clinical trials. We will test the central hypothesis via the following two aims: 1) Leverage Artificial Intelligence and Machine Learning to enable environmental scans in target communities to optimize URM participation in COVID-19 clinical trials. 2) Create and train a network of community-based investigators, pharmacists, and other partners to directly increase clinical trials participation among URM populations.
    - Dates: 04/01/2022-03/31/2024
    - Role: Co-I
    - PI: G. Udeani

36. Problem Solving Training (PST) for English- and Spanish-speaking Care Partners of adults with Alzheimer's and Alzheimer's-related dementia
    - Agency: Texas Alzheimer's Research and Care Consortium (TARCC 2020, 2020–2023)
      ($228,693.00 for Texas A&M University School of Public Health)
    - Major goal: The objective of this study is to explore the effectiveness of PST as an intervention for caregiver burden and emotional stress in English- and Spanish-speaking care partners of adults with Alzheimer's disease and related dementias. The specific aims of this project are to: 1) Determine the

optimal number of PST sessions and boosters to improve emotional symptoms and caregiver burden among English- and Spanishspeaking caregivers of adults with AD/ADRD; and 2) Identify factors associated with response to treatment (e.g. gender, race, ethnicity, relationship to the care recipient).

- Dates: 10/16/2020-10/31/2023
- Role: Co-I
- PI: S. Juengst, M. Smith

35. Increasing Nursing Access Across Populations with Technology in Simulation (INPACTS)

- Agency: Department of Health and Human Services, 1 U4EHP42427 ($500,000.00)
- Major goal: 1) To integrate and adopt a curriculum for our undergraduate program that supports expanding care for underserved populations in central Texas with a specific emphasis on the public health competencies. 2) To increase awareness of the role in the baccalaureate program in management of care with value-based care and quality improvement.
- Dates: 07/01/2021-12/31/2023
- Role: Co-I
- PI: E. Wells-Beede

34. Texas A&M Center for Environmental Health Research

- Agency: DHHS-NIH-National Institute of Environmental Health Sciences, P30ES029067 ($7,462,922)
- Major goal: The vision for the Texas A&M Center for Environmental Health Research (TiCER) is to nucleate research and translational activities of faculty and trainees around the overarching theme: Enhancing Public Health by Identifying, Understanding and Reducing Adverse Environmental Health Risks. This vision will be achieved by building on Texas A&M University's ongoing investments in people and facilities and a history of state–wide outreach to community stakeholders, with a particular focus on underserved populations. The data analytics center will support the data management, analysis, and reporting.
- Dates: 04/01/2019 – 3/31/2024
- Role: Co-Investigator (1.2 Calendar Month)
- PI: D. Threadgill

33. Biostatistics Support for College of Nursing researchers, with joint appointment

- Agency: Texas A&M University, College of Nursing ($64,000)
- Dates: 05/01/2019 – present
- PI: Gang Han

Completed Projects

32. Leveraging Innovative Technology to Improve Maternal & Child Health Outcomes.

  - Agency: TAMU Health Seedling Grant
  - Dates: 09/01/2022-08/31/2023
  - Role: Co-I
  - PI: R. Page

31. Transference Vulnerability: Linking Social, Health And Built Environment Data With Covid-19 Exposure

  - Agency: Texas A&M Triads for Transformation ($30,000.00)
  - Dates: 03/01/2021 – 02/28/2022
  - Role: Co-PI

30. Improved AD/ADRD Assessment Sensitivities Using a Novel In-Situ Sensor Systems

  - Agency: National Institute On Aging, R44AG065118 ($2,342,588)
  - Dates: 7/1/2019-03/31/2022
  - Role: Co-Investigator (1.2 Calendar Month)

29. BCBS 4: Diabetes Management: The Healthy South Texas Model

  - Agency: Blue Cross Blue Shield of Texas, Data core ($892,989)
  - Dates: 2/15/2019 – 2/14/2021
  - Role: Co-Investigator (1.2 Calendar Month)

28. Healthy Kids, Safe Homes: A Novel Approach to Preventing Opioid Misuse and Abuse

  - Agency: USDA/NIFA - 2019 Rural Health and Safety Grant, Award number: 2019-46100-30275, A&M account 470671-00001 ($92,782)
  - Dates: 9/1/2019 – 8/31/2021; Funding received at Texas A&M site: 6/1/2020 – 8/31/2020;
  - Role: PI at Texas A&M site (0.6 calendar month during funded period)

27. Effectiveness of a retrobulbar injection of 0.75% ropivacaine for postoperative analgesia following eye enucleation in dogs

  - Agency: Ginn Family Foundation and College ($8,252.25)
  - Major goal: Evaluate the analgesic effect of retrobulbar 0.75% ropivacaine in dogs during and post an enucleation.
  - Dates: 12/1/2019 – 12/31/2020
  - Role: Chief Statistician (one time charge of $3,000)
  - PI: E. Scott

26. Oregon Health Science University, Surgical Oncology Grant

- Agency: Oregon Health Science University School of Medicine, Division of Surgical Oncology School of Medicine ($15,000)
- Dates: 01/01/2019 – 12/31/2020
- Role: PI

25. Hot Flushes, Glucose, and Cognitive Stress
    - Agency: Texas A&M University, School of Nursing ($3,500)
    - Major goal: Analyze the pilot data and generate scientific hypothesis about the interactions between cognitive stress, glucose level, and hot flushes for women during menopausal period.
    - Dates: 11/01/2018 – 02/28/2019
    - Role: Co-investigator
    - PI: S. Dormire

24. Understanding Human Behavior under High Security Situations Using Virtual Reality
    - Agency: Texas A&M Triads for Transformation ($30,000.00)
    - Major goal: develop and test a hostile intent prediction technology based on the unique cognitive and behavioral patterns exhibited by individuals in indoor navigation.
    - Dates: 03/01/2018 – 02/28/2019
    - Role: Chief Statistician
    - PI: J. Du

23. Yale University Surgical Oncology Grant
    - Agency: Yale University School of Medicine, Department of Surgery ($9,000.00)
    - Dates: 06/01/2017 – 05/31/2018
    - Role: Chief Statistician
    - PI: D. Han

22. Texas A&M Grant for PCORI research
    - Agency: School of Public Health, Texas A&M University (10% salary)
    - Dates: 01/01/2017 – 08/31/2018
    - Role: Chief Statistician
    - PI: M. Ory

21. Internal Seed Grant and Start-up Funding for Statistical Research in Health Sciences
    - Agency: School of Public Health, Texas A&M University ($20,000.00)
    - Dates: 01/01/2016 – 12/31/2018
    - Role: Principal Investigator (PI)

20. A Multi-institutional Analysis of Programed Cell Death Ligand-1 (PD-L1) Expression in Lung Cancer

- Agency: National Comprehensive Cancer Network, sponsored by Bristol-Myers Squibb ($47,639.97 per year)
- Dates: 10/01/2015 – 09/30/2018
- Role: Co-Investigator and Chief Statistician
- PI: I. I. Wistuba, D. Rimm

19. Research Enhancement and Development Initiative (REDI) Grant

- Funding Agency: School of Public Health, Texas A&M University
- Dates: 06/01/2016 – 09/31/2017
- Role: Principal Investigator (PI)

18. Pilot for The Breast Cancer Endocrine Therapy Adherence (BETA) Trial: efficacy of a text-messaging application in increasing adherence with adjuvant endocrine therapy for stage I-III hormone receptor positive breast cancer

- Funding Agency: Yale Cancer Center, ClinicalTrials.gov Identifier: NCT02256670
- Dates: 09/01/2014 – 08/31/2016
- Role: Statistical Co-Investigator
- PI: S. Mougalian

17. Analysis of clinicopathologic predictors of sentinel lymph node metastasis in thin (≤1 mm) and thick (≥4 mm) melanoma

- Agency: OHSE grant, Yale University ($26,000)
- Dates: 05/01/2014 – 04/30/2015s
- Role: Co-Principal Investigator
- PI: D. Han

16. Yale University Clinical and Translational Science Award

- Agency: Yale University, 8 UL1 TR000142-07
- Dates: 10/01/2013 – 10/31/2014
- Role: Statistical Co-Investigator
- PI: Sherwin

15. Yale Comprehensive Cancer Center Shared Resource Grant

- Agency: Yale Cancer Center. P30 CA 016359-33S3
- Dates: 11/01/2013 – 10/31/2014
- Role: Statistical Co-Investigator
- PI: T. Lynch

14. Novel Biomarkers of Acute Kidney Injury (AKI) After Cardiac Surgery

- Agency: National Institute of Health (NIH), R01HL085757 ($313,169)

- Dates: 12/01/2012 – 06/30/2014
- Role: Statistical Co-Investigator
- PI: C. Parikh

13. Novel Kidney Injury Tools in Deceased Organ Donation to Predict Graft Outcome
    - Agency: NIH, R01DK093770-01A1 ($758,026)
    - Dates: 12/01/2012 – 06/30/2014
    - Role: Statistical Co-Investigator
    - PI: C. Parikh

12. Long-Term Prognosis of Acute Kidney Injury in Cardiac Surgery
    - Agency: NIH, National Institute of Diabetes & Digestive & Kidney Diseases, 1K23DK080132-01 ($185,223), 1U01DK082185 ($496,501)
    - Dates: 02/01/2013 – 06/30/2014
    - Role: Statistical Co-Investigator
    - PI: S. Coca

11. Cardio-Renal Phenotype and Prognosis in Chronic Heart Failure
    - Agency: NIH, National Heart, Lung, and Blood Institute, 1K23HL114868-01 ($775,670)
    - Dates: 03/01/2013 – 06/30/2014
    - Role: Statistical Co-Investigator
    - PI: J. M. Testani

10. The Mitochondrial Genome and Ovarian Cancer Risk
    - Agency: NIH, 5R01CA149429-03 ($604,624)
    - Dates: 06/01/2012 – 10/31/2012
    - Role: Statistical Co-Investigator
    - PI: C. Phelan

9. The Mitochondrial Genome and Ovarian Cancer Risk Grant
    - Agency: NIH, 1R01CA149429-01 ($728,415)
    - Dates: 08/08/2011 – 10/31/2012
    - Role: Statistical Co-Investigator
    - PI: C. Phelan

8. Comprehensive Melanoma Research Center Grant
    - Agency: Donald A. Adam Comprehensive Melanoma Research Center
    - Dates: 08/01/2009 – 10/31/2012
    - Role: Statistical Co-Investigator
    - PI: J. Weber, J. Zager

7. The National Functional Genomics Center Grant

   - Agency: Moffitt Cancer Center, W81XWH-08-2-0101 ($4,977,542)
   - Dates: 07/01/2009 – 10/31/2012
   - Role: Statistical Co-Investigator
   - PI: W. Pledger, Ph.D.

6. The Bankhead-Coley Cancer Research Program Grant

   - Agency: The Bankhead-Coley Cancer Research Program ($434,782)
   - Dates: 07/01/2010 – 10/31/2012
   - Role: Statistical Co-Investigator
   - PI: S. Antonia

5. Developing Information Infrastructure Focused on Cancer Comparative Effectiveness Research

   - Agency: NIH / National Cancer Institute, the American Recovery and Reinvestment Act (ARRA), RC2CA148332-01 ($2,005,467), 5UC2CA148332-02 ($1,957,980)
   - Dates: 09/29/2009 – 08/31/2011
   - Role: Statistical Co-Investigator
   - PI: D. Fenstermacher

4. H. Lee Moffitt Cancer Center and Research Institute Support Grant

   - Agency: National Cancer Institute, Moffitt Cancer Center, 5P30CA076292-11 ($3,021,607)
   - Dates: 02/01/2009 – 01/31/2012
   - Role: Statistical Co-Investigator
   - PI: W. Dalton

3. Population-Based Analysis of Ovarian Cancer Biomarkers

   - Agency: National Institute of Health / National Cancer Institute, 5R01CA106414-04 ($576,087)
   - Dates: 09/01/2008 – 05/31/2010
   - Role: Statistical Co-Investigator
   - PI: R. Sutphen

2. Extended Self-Help for Smoking Cessation

   - Agency: National Cancer Institute, R01CA134347-01A1 ($571,835)
   - Dates: 05/11/2009 – 10/31/2012
   - Role: Statistical Co-Investigator
   - PI: T. Brandon

1. James & Ester King Institutional Match Grant

- James & Ester King Institutional Match Program, 09KT-01 ($112,150) in cancers caused by tobacco smoke: lung cancer and MDS.
- Dates: 07/01/2009 – 06/30/2011
- Role: Statistical Co-Investigator
- PI: D. Gabrilovich

SELECTED PRESENTATIONS

- Invited talks, lectures & seminars
  - "What makes a cross-disciplinary collaboration successful" panel discission in workshop "Machine Learning, AI, and Health Collaborations" at Texas A&M Institute of Data Science, College Station, TX, March 21, 2024.
  - "Bayesian-Frequentist Hybrid Inference in clinical and genomic research applications," 7th EcoStat conference, Beijing Normal University, Beijing, China, July 17-19, 2024.
  - "Bayesian-Frequentist Hybrid Inference in clinical and genomic research applications," 2024 Statistical Practice in Cancer Conference, Moffitt Cancer Center, Tampa, FL, February 16–18, 2024.
  - "Bayesian-frequentist Hybrid Inference in Applications with Small Sample Sizes," International Statistical Institute, 64th World Statistics Congress, Ottawa, Canada, July 16-20, 2023.
  - "Quantification of Heterogeneity from Pathologists in the Assessment of the PD-L1 Assay in Breast Cancer and Lung Cancer," 2020 Statistical Practice in Cancer Conference, Moffitt Cancer Center, Tampa, FL, February 28–29, 2020.
  - "Biostatistics Primer for the Nurse Researcher," Lunch and Learn Seminar, Texas A&M College of Nursing, College Station, TX, November 12, 2019.
  - "The implementation of frequentist-Bayesian hybrid inference," 4th International Conference on Big Data and Information Analytics (BigDIA 2018), Texas Medical Center, Houston, TX, December 17–19, 2018.
  - "Bayesian Hybrid Inference and Its Application in HIV Viral Load Modeling and Computer Experiments," The Center for Statistical Science at Peking University, Beijing, China, April 12, 2018
  - "Bayesian Hybrid Inference and Its Application in HIV Viral Load Modeling and Computer Experiments," Academy of Mathematics and Systems Science (AMSS), Chinese Academy of Sciences (CAS), Beijing, China, April 13, 2018
  - "Bayesian Hybrid Inference and Its Application in HIV Viral Load Modeling and Computer Experiments," Department of Applied Chemistry, College of Science, China Agricultural University, Beijing, China, April 11, 2018
  - "Improved Survival Analysis in Two Personalized Breast Cancer Studies." 2017 Conference on Lifetime Data Science: Data Science, Precision Medicine, and Risk Analysis with Lifetime Data, University of Connecticut, Storrs, CT, May 25-27, 2017

- "Improved survival analysis in personalized cancer therapy trials." 2015 REDI Grantees Seminar, Texas A&M University School of Public Health, College Station, TX, April 28, 2017

- "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

- "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

- "Improved survival analysis in two personalized cancer therapy studies." Department of Biostatistics and Bioinformatics, Moffitt Canner Center, Tampa, FL, May 13, 2016

- "Improved Survival Analysis Using a Reduced Piecewise Exponential Approach with Application in Personalized Cancer Therapy Studies." Department of Pathology, Yale School of Medicine, New Haven, CT, May 11, 2015

- "Hybrid Bayesian M-Estimation and Its Application in Calibration and Tuning for Complex Computer Models." Department of Biostatistics, Bioinformatics, and Biomathematics, Georgetown University, NW, Washington D.C., September 12, 2014

- "Improved Survival Analysis Using a Reduced Piecewise Exponential Approach with Application in Personalized Cancer Therapy Studies." Boston Children's Hospital, Harvard School of Medicine, MA, September 10, 2014

- "Improved Survival Modeling Based on a Reduced Piecewise Exponential Approach." School of Nursing, University of Michigan, Ann Arbor, MI, May 29, 2014

- "Improved Survival Modeling in Cancer Research Using a Reduced Piecewise Exponential Approach." School of Medicine, Johns Hopkins University and Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, April 30, 2014

- "Calibration and Tuning for Complex Computer Models: a Hybrid Bayesian Approach." Ordered Data Analysis, Models and Health Research Methods: An International Conference in Honor of H.N. Nagaraja for His 60th Birthday. Department of Mathematical Sciences, The University of Texas at Dallas, Richardson, Texas, March 7 – 9, 2014

- "Improved Survival Modeling Using a Reduced Piecewise Exponential Approach." Department of Biostatistics, School of public health, Yale University, New Haven, CT, June 19, 2012

- "Hybrid Bayesian Inference on HIV Viral Dynamic Models." Eastern North American Region (ENAR), International Biometric Society 2012 Spring Meeting, Washington, DC, April 1 – 4, 2012

- "Prediction for Computer Experiments Having Qualitative and Quantitative Input Variables." Department of Mathematics, Nankai University, Tianjin, China, May 6, 2011

- "Tuning and Calibration for Complex Computer Models." Academy of Mathematics and Systems Sciences, Chinese Academy of Sciences, Beijing, China, May 4, 2011

- "On the Cutting Edge of Statistical Research: Focusing on Cancer Survival Modeling and Prediction for Computer Experiments." School of Engineering, Peking University, Beijing, China, April 18, 2011

- "Modeling Cancer Patient Survival Using a Reduced Piecewise Exponential Approach." Department Colloquium, Department of Public Health Sciences, Office of Public Health Studies, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, Hawaii, January 20, 2011

- "Improved Survival Modeling Using A Piecewise Exponential Approach." Department Colloquium, Mathematics & Statistics Department, Queen's University, Kingston, Ontario, Canada, April 9, 2010

- "Simultaneous Determination of Tuning and Calibration Parameters for Computer Experiments." The Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting, San Diego, CA, October 11 – 14, 2009

- Topic contributed presentations

  - "A Hybrid M-Estimation Method with Application in Simultaneous Tuning and Calibration for Computer Experiments." Joint Statistical Meetings (JSM), Chicago, IL, July 30 – August 4, 2016

  - "Testing Violations of Exponential Assumption in Cancer Clinical Trials with Survival Endpoints." JSM, Boston, MA, August 2 – 7, 2014

  - "A Parametric Comparison for Survival Data with Multiple Events and Failure Changes." ENAR, International Biometric Society 2011 Spring Meeting, Miami, FL, March 20 – 23, 2011

  - "Improved Survival Modeling Using A Piecewise Exponential Approach in Cancer Research." The American Statistical Association North Florida Regional Annual Meeting, Tampa, FL, February 4 – 5, 2011

  - "Improved Survival Modeling Using a Reduced Piecewise Exponential Approach." Joint Statistical Meetings (JSM), Vancouver, Canada, July 31 – August 5, 2010

  - "Simultaneous Determination of Calibration and Tuning Parameters." JSM, Denver, CO, August 2 – 7, 2008

  - "Simultaneous Calibration and Tuning of Computer Experiments." JSM, Salt Lake City, UT, July 29 – August 2, 2007

  - "Analysis of Computer Experiment Output Having Qualitative and Quantitative Input Variables ." Kickoff Workshop, 2006-07 Program on Development, Assessment and Utilization of Complex Computer Models, Internship at the Statistical and Applied Mathematical Sciences Institute (SAMSI), Durham, NC, September 10 – 14, 2006

  - "Calibration and Prediction for Computer Experiment Output Having Qualitative and Quantitative Input Variables." Summer School on the Design

and Analysis of Computer Experiments, The IRMACS Centre, Simon Fraser University, Burnaby, British Columbia, Canada, August 11 – 16, 2006

- "Calibration and Prediction for Computer Experiment Output Having Qualitative and Quantitative Input Variables." JSM, Seattle, WA, August 6 – 10, 2006

- "Statistical Models for Computer Experiment Output Having Qualitative Input Variables." JSM, Minneapolis, MN, August 7 – 11, 2005

- Coauthored presentations

  - "Evidence-Informed On-line Platforms for Dementia Caregivers." the Gerontological Society of America (GSA) 2024 Annual Scientific Meeting, November 13-16, 2024. Seattle, Washington, USA.

  - "Tumor Infiltrating Lymphocytes in Primary Melanoma Specimens are Associated with a Better Prognosis." North Pacific Surgical Association annual meeting, November 8-9, 2024, Spokane, Washington, USA.

  - "Social and structural determinants of health inequities among those with non-target A1Cs with type 2 diabetes: The role of individual-level and place-based factors." the American Public Health Association Annual Conference, Oct 27-30, 2024. Minneapolis, MN, USA.

  - "Burden of Comorbid Depression and Type 2 Diabetes: An Empirical Study Using Commercial Insurance." the American Public Health Association Annual Conference, Oct 27-30, 2024. Minneapolis, MN, USA.

  - "Balancing loneliness: Effectiveness of evidence-based fall prevention programs to reduce loneliness." National Council on Aging Age+Action Virtual Conference, May 6-8, 2024, Arlington, VA.

  - "Tracking sexual assault kits (SAKs) and CODIS-eligible profiles." 76th Annual Conference of the American Academy of Forensic Sciences. February 22, 2024, Denver, CO, USA.

  - "Increasing Nursing Access Across Population with Technology in Simulation (INPACTS)." International Meeting for Simulation in Healthcare (IMSH) 2024 Conference. January 2024, San Diego, CA, USA.

  - "Longitudinal comparisons of Rural-Border Health Disparities in Diabetes-related Physician Visits among adults with Type 2 Diabetes: The role of Social and Structural Determinants of Health Inequities." the American Public Health Association Annual Conference. Nov 12-15, 2023. Atlanta, GA, USA.

  - "A self-guided digital translation of a matter of balance (AMOB): Adherence, effectiveness, and learnability," the American Public Health Association Annual Meeting, November 12-15, 2023, Atlanta, GA.

  - "Incident and Recurrent Falls among Non-Hispanic Black and Hispanic Men with Chronic Conditions," Gerontological Society of America, Tampa, FL, November 8-12, 2023.

- "Analysis of faculty confidence in BSN graduates' preparedness of AACN Essential core competencies and QCC-C/PHN Competencies at the Texas A&M University School of Nursing," Association of Community Health Nursing Educators (ACHNE) & Association of Public Health Nurses (APHN) 2023 Joint Conference. San Diego, CA. June 2023.

- "Increasing Nursing Access Across Population with Technology in Simulation (INPACTS): Pediatric virtual reality simulation," International Nursing Association for Clinical Simulation and Learning (INACSL) 2023 Conference. Providence, RI. June, 2023.

- "Predicting High-Cost Diabetes Patients: An Analysis of Commercially-Insured Population," International Society for Pharmacoeconomics and Outcomes Research Annual meeting, Boston MA, May 7 – 10, 2023.

- "Biomembrane Synthesis, Structure, Mechanics, and Dynamics," The American Chemical Society Accual meeting, Indianapolis, IN, March 26 - 30, 2023.

- "Home tobacco smoke exposure and routine healthcare utilization among U.S. children," Paper presentation at Society for Research on Nicotine and Tobacco Annual Meeting, San Antonio, TX, March 2, 2023.

- "Contractility and adhesion to the matrix is impaired in vascular smooth muscle from Acta2 R149C mice," The American Society for Cell Biology Annual meeting, Washington, DC, December 3–7, 2022.

- "Rural Health Disparities in A1C among adults with Type 2 Diabetes: The role of Health and Place," American Public Health Association Annual Conference, Boston, MA, November 6–9, 2022.

- "Increasing nursing access across populations with technology in simulation (INPACTS)," NLN Nursing Education Research Conference. March, 2023, Washington, DC

- "Analysis of faculty confidence in BSN graduates' preparedness of AACN Essential core competencies and QCC-C/PHN Competencies," AACN Transform 2022, December 1-3, 2022, Chicago, IL

- "Technology innovations in dementia care: Improvements in functional assessments through background sensing," The Gerontological Society of America Annual Meeting, November 10-14, 2021, Phoenix, AZ.

- "Regression is Significantly Associated with Outcomes for Patients with Melanoma," 2021 Portland Surgical Society Annual Scientific Meeting, May 2021, Portland, Oregon.

- "Is the Presence of Tumor Infiltrating Lymphocytes Prognostic in Melanoma Patients?" 2021 Portland Surgical Society Annual Scientific Meeting, May 2021, Portland, Oregon.

- "Factors Associated with Uptake Of Prenatal Genetic Testing In Hispanic Women: An Exploratory Study." Society of Behavioral Medicine conference, April 12-16, 2021 (virtual).

- "Stress, Acculturation, and Preterm Birth in Mexican-origin Women." Virtual conference session to be presented at the American College of Nurse-Midwives Annual Meeting, May 2020, Austin, Texas.

- "Factors Predicting Survival in Thick Melanoma: Do All Thick Melanomas Have the Same Prognosis?" Oregon-Washington Chapter of the ACS local meeting, June 11-13, 2020, Sunriver, OR, USA

- "Differential Intervention Effects Tied to Place of Residence: Greater Returns on Investment Among Rural Residents," Active Living Research Annual Conference, February 2-5, 2020, Orlando, FL, USA.

- "Factors Predicting Survival in Thick Melanoma: Do All Thick Melanomas Have the Same Prognosis?" 15th Annual Academic Surgical Congress, February 4-6, 2020, Orlando, FL.

- "A Concerning Prospective Multi-Institutional Evaluation of Pathologist Assessment of PD-L1 Assays in Triple Negative Breast Cancer," 2019 San Antonio Breast Cancer Symposium, December 10-14, 2019, San Antonio, TX.

- "The Impact of Diabetes Self-Management Education on Psychological Distress and Health Outcomes among African Americans and Hispanics with Diabetes," Society for Public Health Education (SOPHE) 2019 Annual Conference, March 27 - 29, 2019, Salt Lake City, Utah.

- "Vasomotor and Personal Characteristics Associated With Changes in Brain Glucose Metabolism in Menopause," Sigma Theta Tau International, Creating Healthy Work Environments Conference, February 22-24, 2019, New Orleans, LA

- "Religiosity/Spirituality as a Bio-behavioral Protective Factor During Pregnancy for Mexican-Origin Women," Southern Nursing Research Society Annual Conference, February 27 - March 1, 2019

- "Changes in Physical Activity Associated with a Novel Health and Wellness Program for at-risk older individuals," The Gerontological Society of America 2018 Annual Scientific Meeting, November 14–18, 2018, Boston, MA.

- "Changes in moderate-to-vigorous physical activity and associated medical cost savings among middle-aged and older adults participating in a novel multi-component health/wellness program," American Public Health Annual Meeting, November 10–14, 2018, San Diego, CA.

- "Does Sentinel Lymph Node Status Have Prognostic Significance in Patients with Acral Lentiginous Melanoma?" Society of Surgical Oncology (SSO) Annual Meeting, March 21 – 24, 2018, Chicago, IL.

- "Predictors for Use of Sentinel Node Biopsy and the Survival Impact of Performing Nodal Staging in Melanoma Patients." Society of Surgical Oncology (SSO) Annual Meeting, March 15 – 18, 2017, Seattle, WA.

- "A Prospective, Multi-Institutional Assessment of Four Assays for PD-L1 Expression in NSCLC by Immunohistochemistry." International Association for the Study of Lung Cancer (IASLC) 2016 Multidisciplinary Symposium in Thoracic Oncology, September 22 – 24, 2016, Chicago, IL.

- "Randomized Phase II Trial of Fulvestrant Alone or in Combination with Bortezomib in Hormone Receptor-Positive Metastatic Breast Cancer Resistant to Aromatase Inhibitors: A New York Cancer Consortium Trial." San Antonio Breast Cancer Symposium, December 9 – 13, 2014.

- "Power and Stability Properties of Resampling-Based Multiple Testing Procedures with Applications to Gene Oncology Studies." JSM, San Diego, CA, July 28 – August 1, 2012
- "The Unique Clinical Characteristics of Melanoma Diagnosed in Children." Society of Surgical Oncology, Orlando, Florida, March 21 – 24, 2012
- "A Parametric Test for Correlated Time-to-Event Data with a Failure Rate Change." JSM, Vancouver, Canada, July 31 – August 5, 2010
- "Computer Experiments with Both Qualitative and Quantitative Inputs." JSM, Vancouver, Canada, July 31 – August 5, 2010
- "Improved Survival Modeling Using a Piecewise Exponential Approach." JSM, Washington, DC, August 1 – 6, 2009
- "Preventing Smoking Relapse Among Pregnant and Postpartum Women: A Randomized Clinical Trial." 2009 Joint Conference of Society for Research on Nicotine and Tobacco, Dublin, Ireland, April 27 – 30, 2009

- Posters

  - "Disease-related symptom profiles of Black and Hispanic men with chronic conditions." American Academy of Health Behavior Annual Conference, March 16-19, 2025, San Diego, CA.
  - "Risk Profiles of Alzheimer's Disease and Related Dementias Care Partners: A Latent Profile Analysis to Inform Intervention." Texas Alzheimer's Research and Care Consortium Scientific Symposium, January 25, 2025, Austin, TX.
  - "Family Caregivers' Use of GamePlan4Care, an Evidence-based, Online Approach to Dementia Care." Texas Alzheimer's Research and Care Consortium Symposium, February 8, 2024, Austin, TX.
  - "Effectiveness of a bilingual problem-solving training for care partners of adults with dementia." Texas Alzheimer's Research and Care Consortium Symposium, February 8, 2024, Austin, TX.
  - "Predicting high-cost diabetes patients: An analysis of commercially-insured population." International Society for Pharmacoeconomics and Outcomes Research Annual Conference, May 7-9, 2023, Boston, MA.
  - "Identifying high-cost patients with type 2 diabetes in Medicare-advantage: A retrospective observational study." American Public Health Association Annual Meeting, November 12-15, 2023, Atlanta, GA.
  - "Relationship between Social Problem-Solving Skills and Caregiver Burden among Dementia Care Partners." Gerontological Society of America Annual Conference. November 8-12, 2023. Tampa, FL.
  - "Costs of type 2 diabetes management in rural Texas: Examination of A1c trajectories and cross-over effects on medical costs." the American Public Health Association Annual Meeting, November 12-15, 2023, Atlanta, GA.
  - "Factors associated with incident and recurrent falls among non-Hispanic Black and Hispanic men." Texas A&M National Public Health Week Research Symposium, April 6, 2023, College Station, TX.

- "Design, development, and efficacy of a digital translation of Matter of Balance." American Society on Aging Annual Conference, March 27-30, 2023, Atlanta, GA.

- "Increasing nursing access across populations with technology in simulation (INPACTS)." 2023 National League for Nursing (NLN) Nursing Education Research Conference (NERC). Washington, DC. March, 2023.

- "Digital translations of the Matter of Balance and Otago Exercise Programs: Preliminary results." American Physical Therapy Association Combined Sections Meeting, February 23-25, 2023, San Diego, CA.

- "Service usage among care partners of adults with dementia in the CaDeS Trial," 2023 Southwestern Psychological Association Convention. March 31-April 2, 2023, Frisco, Texas.

- "Caregiver-reported declines in activities of daily living among persons with mild dementia during the COVID-19 pandemic," Texas Alzheimer's Research and Care Consortium Symposium, January 26, 2023, Austin, TX.

- "Home Tobacco Smoke Exposure and Housing Instability among a National Sample of U.S. Children," 21st Annual Hawaii International Conference on Education, January 3-6, 2023, Honolulu, Hawaii.

- "Home Tobacco Smoke Exposure and Housing Instability among a National Sample of U.S. Children," The IAFOR International Conference on Education, January 5-8, 2023, Honolulu, Hawaii.

- "Worsening of depressive symptomatology since before COVID-19 among caregivers of persons living with dementia," The Gerontological Society of America (GSA) 2022 Annual Scientific Meeting, November 2-6, 2022, Indianapolis, Indiana.

- "Unpaid, female caregivers with fewer financial resources were more likely to report worsening depressive symptomatology since the COVID 19 pandemic," The Gerontological Society of America (GSA) 2022 Annual Scientific Meeting, November 2-6, 2022, Indianapolis, Indiana.

- "Increasing nursing access across populations with technology in simulation (INPACTS)." LAUNCH: Undergraduate Research 2022 Summer Undergraduate Research Poster Session, August, 2022, College Station, TX.

- "Synopsis and utilization of virtual reality (VR) in an adult health course: Caring for clients with chronic conditions identified as veterans and a vulnerable population," Nuts & Bolts, August, 2022, Minneapolis, MN

- "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 (IPER 7), November 17, 2021, College Station, Texas.

- "Transference Vulnerability: Linking Social, Health, and Built Environment Data with COVID-19 Exposure," Texas A&M College of Architecture's 23rd Annual Research Symposium, October 4, 2021, College Station, Texas

- "Telomere Length, Acculturation, and Preterm Birth in Mexican-origin Women," Virtual poster presented at the American College of Nurse-Midwives Annual Meeting, May 2020, Austin, Texas.

- "Sentinel Lymph Node Biopsy is Prognostic in the Thickest Melanoma Cases and Should Be Performed for Thick Melanomas," SSO 2020 – International Conference on Surgical Cancer Care (SSO 2020), March 25-28, 2020 Boston, MA.

- "Telomere Length and Preterm Birth in Mexican-origin Women: An Exploratory Study," 2019 International Society of Nurses in Genetics (ISONG), Nov 7-10, 2019, San Antonio, TX.

- "Metastatic Breast Cancer Alliance's Patient Education and Access to Trials: Perceptions and Actions," 2018 San Antonio Breast Cancer Symposium, December 3-8, 2018, San Antonio, TX.

- "Impact of a Behavioral Intervention on Diet, Eating Patterns, Self-efficacy, and Social Support: Texercise Select," The Gerontological Society of America 2018 Annual Scientific Meeting, November 14–18, 2018, Boston, MA.

- "Does Sentinel Lymph Node Status have Prognostic Significance in Patients with Acral Lentiginous Melanoma?" Society of Surgical Oncology Annual Meeting, Chicago, IL, March 21-24, 2018

- "Completion lymphadenectomy for a positive sentinel node biopsy in melanoma patients is not associated with a survival benefit," Society of Surgical Oncology Annual Meeting, Chicago, IL, March 21-24, 2018

- "Predictors for melanoma recurrence and the impact of recurrence type on outcomes after a negative sentinel lymph node biopsy," Society of Surgical Oncology Annual Meeting, Chicago, IL, March 21-24, 2018

- "Beyond Breslow thickness: Do other clinicopathologic factors predict for sentinel node metastasis in patients with melanoma?" 7th International Symposium on Cancer Metastasis & the Lymphovascular System: Biology & Treatment, San Francisco, CA, April 20–22, 2017

- "Development of an interactive text messaging tool to improve adherence with adjuvant endocrine therapy: Breast cancer endocrine therapy adherence (BETA) pilot study," San Antonio Breast Cancer Symposium, December 6–10, 2015

- "Patient Preferences for Disclosure of Incidental Genetic Information Discovered Through High-Throughput Sequencing." American Association of Cancer Research (AACR), April 21, 2015

- "Transcriptional Heterogeneity of Breast Cancer Subtypes, a Novel Chemotherapy Sensitivity Marker." San Antonio Breast Cancer Symposium, December 10–14, 2013

- "Clinical Characteristics and Outcomes for Benign and Malignant Solitary Fibrous Tumor/ Hemangiopericytoma (SFT/HPC): A Single Center Experience." Connective Tissue Oncology Society annual meeting, Prague, Czech Republic, Nov. 17, 2012

- "Racial and Age Disparities in the Outcome of Ewing Sarcoma: An Institutional Study and Literature Review." College of American Pathologists (CAP) annual meeting, San Diego, CA, Sep. 9 – 12, 2012

- "The Influence of Competing Causes of Mortality on the Natural History of Patients with Desmoplastic Melanoma." American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago, IL, June 1 – 5, 2012

- "Risk Factors of Prostate Cancer in African American Men." American Association for Cancer Research (AACR) annual meeting, Chicago, IL, March 31 – April 4, 2012

- "Features Associated With Abnormal Axillary Ultrasound (AUS) In Breast Cancer." The American Society of Breast Surgeons 12th annual meeting, Washington, DC, April 27 – May 1, 2011

- "Classification of Cancer Hazard Rate Curves into Five Order-Restricted Typologies." ENAR Meeting, Miami, March 20 – 23, 2011

- "The Role of Axillary Staging in Women Diagnosed with Microinvasive DCIS (DCISM)". 2010 The Society of Surgical Oncology's 63rd Annual Cancer Symposium, St. Louis, MO, March 3 – 7, 2010

PUBLICATIONS **Boldface article title: Primary authorship. "⋆": statistical methods.** The corresponding author, students, and equally contributed primary author are indicated in parentheses after my name and names of students who I directly advised.

Peer Reviewed Articles

Submitted

140. Smith, M. L., Ory, M., Zhong, L., Andreyeva, E., Carpenter, K., Towne, S. D., Preston, V., Johannes, B. L., **Han, G.** "Costs of type 2 diabetes management in rural Texas: Examination of A1c trajectories and cross-over effects on medical costs," submitted.

139. Huang, W. (student), **Han, G.**, Taylor, B., Neal, G., Kochan, K., Page, L. R. "Preterm Birth, Telomere Length and Religiosity in Mexican and African American Women," submitted.

138. Ahn, S., **Han, G.**, Beck, M., Hsu, W. L., Towne, S., Smith, M. L., and Ory, M. G. "The Burden of Comorbid Depression and Type 2 Diabetes: An Empirical Study Using Commercial Insurance Data," submitted.

137. Vollmer Dahlke, D., Wall, K. N. (student), Horel, S., **Han, G.**, Silva, R., Ramos, K. S., Ory, M. G. "Scoring Phase I/II Cancer Clinical Trials for Cervical Cancer in Texas for Alignment with FDA Guidance on Expanding Eligibility Criteria", submitted.

136. Wells-Beede, E., **Han, G.**, et al. "Analyses of Faculty Confidence in BSN Graduates' Preparedness of AACN Essential Core Competencies and QCC-C/PHN Competencies in the School of Nursing at Texas A&M University," submitted.

135. Page, R., Rose, G., Wall, K. N. (student), **Han, G.** "Nursing in the Puerperium: A Virtual Home Visiting Intervention for women at risk for severe maternal morbidity and mortality", submitted.

134. Morrison, S., **Han, G.**, Elenwa, F. (student), Fowler, G., Leong, S. P., Kashani-Sabet, M., Pockaj, B., Kosiorek, H. E., Zager, J. S., Sondak, V. K., Messina, J. L., Mozzillo, N., Schneebaum, S., Han, D., Vetto, J. "What is the Association between Tumor Infiltrating Lymphocytes (TIL) and Recurrence in Melanoma?" submitted.

133. Towne, S. D. Jr., Callaghan, T. H., Cai, Y., Smith, M. L., Ferdinand, A. O., **Han G.**, Bolin J. L. "Social and structural inequities in exposure to diabetes education among adults diagnosed with diabetes in the US," *Journal of Immigrant and Minority Health*, submitted.

132 Salzar, T. L. (student), Smith, M. L., Pickens, A., **Han, G.**, Benden, M. E. "Improved Computer Utilization Associated with Sit-stand Workstations in a Large Office Population," submitted.

131. Stevens, A., Cho, J., Birchfield, T., Reese, J., **Han, G.**, Ory, M., "GamePlan4Care: A Caregiver Accessible Online Platform Based on the REACH II Intervention", submitted.

130. Huang, Y. A., Kurian, A. M. (student), **Han, G.**, Wilson, K., "The effects of Perceived Discrimination in Medical Settings on A1C among People with Type 2 Diabetes An Analysis from the National Institutes of Health All of Us Research Program," submitted.

129. Wells-Beede, E., Mulcahy-Spence, A., Pittman, A., Moffitt, C., **Han, G.**; Thai, L., Seo, J. "Integrating Care of a Pediatric Client in the School Setting: Virtual Reality Management of DKA," submitted.

128. Chen, W., Bloom, R., Brandford, A., **Han, G.**, Horel, S., Sanchez, M., Lichorad, A., Bolin, J. "Prevalent poverty, rural location, and racial segregation are factors in colorectal cancer screening in low-income and uninsured populations," submitted.

127. Pittman, A., Kabani, F. A., Elenwa, F. (student), **Han, G.**, Bustamante, J. J. "Investigating Knowledge, Skills, and Attitudes Toward Care of Sexual and Gender Minorities Among Health Professions Students: A Cross-Sectional Survey at a Large Academic Health Science Center," submitted.

126. Flynn, S., Reyes, J., Ovnatanian, M., Pu, W., Dorsey, K., Herrick, T., Haynes, M., Davis, D., Lau, C., Zelinski, E., **Han, G.**, Zhong, L., Smith, M. L., "A self-guided digital translation of A Matter of Balance (AMOB) and Otago Exercise Program (OEP): Adherence, effectiveness, and learnability," submitted.

125. Wall, K. (student), Rose, G. M., **Han, G.**, Page, E., L. "Postpartum Depression and Anxiety: A Comparison of English and Spanish-speaking Individuals," submitted.

124. Chen, W. H., Brandford, A., **Han, G.**, Horel, S., Sanchez, M., Lichorad, A., Bollin, J. "Fostering Health Equity: A Hierarchical Logistic Regression Approach

for Predicting Breast Cancer Screening Outcomes in Medically Underserved and Rural Texas Regions," submitted.

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SOFTWARE
DEVELOPED

All software is available upon request.

- *ONEST* MATLAB package (2021): Observers Needed for Evaluation of Subjective Tests.
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