

Gang Han

CONTACT INFORMATION

Texas A&M University School of Public Health
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EDUCATION

Ph.D. in Statistics, The Ohio State University
M.S. in Statistics, The Ohio State University
B.S. in Computer Science, Beijing University of Technology, Beijing, China

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 Health Science Center, Texas A&M University, September 2022 – present
 - Joint Professor, School of Nursing, Texas A&M Health 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 Health Science Center, Texas A&M University, 2016 – 2022
 - Joint Associate Professor, College of Nursing, Texas A&M Health 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: Ashley M Kurian (2022-2024), Dana Pittman (2022-2024), Lucas Wilson (2021-2023), Oluyomi Olorun-toba (2021-2022), Temitope Olokunlade (2021-2022), Lorraine Madewell (2020-2022), Samantha Chang (2020-2022), Catherine Hessler (2020-2022), Natalie Olson (2019-2020), Abimbola D. Famurewa (2018-2020), Heta H. Gandhi (2018-2020), Monica Duque (2017-2019), Chikaodinaka I. Chikwendu (2017-2019), Jeongwon Han (2017-2019), Tricia L. Salzar (2018-2019), Kendall Pye (2016-2018), Parag Sharma (2017-2018), Shinduk Lee (2016-2018), Ang Xu (2017-2018), Ayodele Bankefa (2016).
 - 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
 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, Council of Principal Investigators, September 2019 – August 2022
 - 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
 - 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 – present
 - SPH Distance/Online Learning Committee, 2017 – present
 - SPH Teaching Excellence Assessment and Support Committee, 2017 – present
- 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*, *Bioinformatics*, *Journal of Biopharmaceutical Statistics*, *Lifetime Data Analysis*, *Journal of Statistical Distributions and Applications*, *Journal of Probability and Statistics*, *Statistical Modelling*, *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*, *EClinicalMedicine – a Lancet Journal*, *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

- “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 improve 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

47. 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
46. Pharmacogenomic and Clinical Trials Optimization in Underrepresented Minorities
 - Agency: NIH
 - Role: Co-I
 - PI: George Udeani
45. Ultra Wideband Fall Detection and Prediction Solution for People Living with Alzheimer’s Disease and Alzheimer’s Disease Related Dementias
 - Agency: NIH SBIR
 - Sponsor: Clairvoyant Networks, Inc.
 - Role: Co-I
 - PI: Marcia Ory
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
42. Mechanisms to improve social connectedness and health among older rural adults with chronic conditions
- Agency: NIH
 - Role: Co-PI
 - PI: M. Smith
41. Problem Solving Training (PST) for English- and Spanish-speaking Care Partners of Adults With Alzheimer's and Alzheimer'S-related Dementia
- Agency: NIH, R01
 - Role: Co-PI
 - PI: S. Juengst
40. CHAMPion: Community Health Workers Addressing Mental Health among Perinatal Women in an Underserved Region
- Agency: NIH, R21
 - Role: Co-I
 - PI: R. Page
39. Embarazo Tranquilo/Peaceful Pregnancy: Protective Factors Against Preterm Birth in Mexican-origin Women
- Agency: NIH, R01
 - Role: Co-PI
 - PI: R. Page

Ongoing Projects

38. Leveraging Innovative Technology to Improve Maternal & Child Health Outcomes.
- Agency: TAMU Health Seed Grant Program
 - Dates: 12/01/2022-11/30/2023
 - Role: Co-I
 - PI: R. Page
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: 04/01/2022-03/31/2023
 - 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) (\$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: 10/16/2020-10/15/2022
 - 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: 07/01/2021-06/30/2023
 - Role: Co-I
 - PI: E. Wells-Beede

34. Transference Vulnerability: Linking Social, Health And Built Environment Data With Covid-19 Exposure
- Agency: Texas A&M Triads for Transformation (\$30,000.00)
 - Major goal: Using Harris County, TX as a case site, we will assess relationships between COVID-19 morbidity and mortality rates with social, public health, and built environment factors to rank transference vulnerability by neighborhood and create an interactive visualized online platform to display the findings and related analytics. An interdisciplinary team will provide support to help local government decision-makers allocate health care assistance and focus policy attention toward the communities most vulnerable to the effects of the COVID-19 global pandemic and similar future circumstances.
 - Dates: 03/01/2021 – 02/28/2022
 - Role: Co-PI
 - PI: S. Yu
33. Improved AD/ADRD Assessment Sensitivities Using a Novel In-Situ Sensor Systems
- Agency: National Institute On Aging, R44AG065118 (\$2,342,588)
 - Major goal: The primary objective of this fast track SBIR project is to demonstrate the feasibility and effectiveness of using the Birkeland Current Sovrin IoT system to continuously and accurately assess daily functions, ADLs, and IADLs, for persons experiencing cognitive decline in a home or assisted care settings.
 - Dates: 7/1/2019-03/31/2022
 - Role: Co-Investigator (1.2 Calendar Month)
 - PI: J. Fitch & M. Ory
32. BCBS 4: Diabetes Management: The Healthy South Texas Model
- Agency: Blue Cross Blue Shield of Texas, Data core (\$892,989)
 - Major goal: The overall goal of this BCBS Rural Moonshot Project is to address the staggering burden of diabetes in Texas, building upon infrastructure already assembled through the Healthy South Texas Initiative. The data core will support the data management, analysis, and reporting.
 - Dates: 2/15/2019 – 2/14/2021
 - Role: Co-Investigator (1.2 Calendar Month)
 - PI: B. Kash
31. 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

30. 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 – 08/31/2023
- Role: Co-Principal Investigator (at Texas A&M University) and Chief Statistician of the Whole Project
- PI: A. B. Stevens, M. Ory

Completed Projects

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

- Agency: Texas A&M University, College of Nursing (\$34,000)
- Dates: 05/01/2019 – present
- PI: Gang Han

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)
- Major goal: Teens Think Smart is a novel, multi-component community-based opioid abuse and misuse prevention intervention targeting rural ninth and tenth grade students.
- 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)
 - PI: N. Purcell
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
 - “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 Cancer 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
 - “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

- “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

112. Vollmer Dahlke, D., Horel, S., Silva, R., Wall, K. N., **Han, G.**, 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.
- 111.* **Han, G.**, Sun, Z., Yan, D., Wilson, L., Liu, Y. “Analysis of RNA Single-cell Sequencing Data with Cell Probabilities Using Frequentist-Bayesian Hybrid Inference,” submitted.
110. Schwantes, I. R., Sutton, T., Behrens, S., Fowler, G., **Han, G.**, Vetto, J. T., Han, D. “Surgical Metastatectomy Improves Survival in Select Patients with Metastatic Melanoma,” submitted.
109. 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.
108. Yu, S., Lei, K., L., **Han, G.**, Chang, S., Southerland, C., Roberts, A. “Transference Vulnerability Assessment: Linking Social, Health, and Land-Use Factors with COVID-19 Infection Rates in Houston, TX,” submitted.
107. Ory, M., Smith, M. L., **Han, G.**, et al. “ADRD Human Subject Recruiting during the Covid-19 pandemic,” submitted.
- 106.* **Han, G.**, Spencer, M., Ahn, S., Smith, M. L., Zhong, L., Andreyeva, E., Carpenter, K., Towne, S., Preston, V. A., Ory, M., “**Group-based trajectory modeling identifies varying diabetes-related cost trajectories among Type II diabetes patients in Texas: An empirical study using commercial insurance,**” submitted.

105. Towne, S. D., Ory, M. G., Zhong, L., Smith, M. L., **Han, G.**, Andreyeva, E., Carpenter, K., Ahn, S., Preston, V. A. “Variation in A1C among adults with Type 2 Diabetes 2016-2019: Examining health inequities across individual-level, geospatial, and geopolitical factors,” submitted.
104. Salzar, T. L (student), Smith, M. L., Pickens, A., **Han, G.**, Benden, M. E. “Stand-biased Workstations Reduce Occupational Sedentary Time in Administrative Populations,” submitted.
103. Zhong, L., Huyan, Y., Andreyeva, E., Smith, M. L., **Han, G.**, Carpenter, K., Towne S. D. Jr., Jani, S. N., Preston, V. A., Ory, M. G. “High-cost, commercially-insured diabetes patients: characteristics, spending patterns, and urban-rural comparisons,” submitted.
102. 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.
101. Southerland, C., Chang, S., Yu, S., **Han, G.**, Roberts, A. “Transference Vulnerability: Linking Social, Health, and Built Environment Data with COVID-19 Exposure,” submitted.
100. Murtha, T. D., **Han, G.**, Thomas, D. C., and Han, D. “Beyond Breslow Thickness: Do Other Clinico-pathologic Factors Predict for Sentinel Node Metastasis in Patients With Melanoma?” submitted.
99. Susich, M., **Han, G.**, Fowler, G., Vetto, J., Han, D. “Does treatment with surgery affect outcomes in patients with stage IV melanoma?” submitted.
98. 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.

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97. Ory, M., **Han, G.**, Jani, S., Zhong, L., Andreyeva, E., Carpenter, K., Towne, S., Preston, Smith, M. L. “Factors associated with higher hemoglobin A1C and diabetes-related costs: Secondary data analysis of adults 18 to 64 in Texas with commercial insurance,” *PLoS ONE*, accepted.
96. Robbins, C. J., Fernandez, A. I., **Han, G.**, Wong, S., Harigopal, M., Podal, M., Singh, K., Ly, A., Kuba, G., Wen, H., Sanders, M. A., Brock, J., Wei, S., Fadare, O., Hanley, K., Jorns, J., Snir, O., Yoon, E., Rabe, K., Soong, R., Reisenbichler, R. S., and Rimm, D. L. (2023) “Multi-institutional Assessment of Pathologist scoring HER2 Immunohistochemistry,” *Modern Pathology*, DOI: 10.1016/j.modpat.2022.100032.

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95. Mahabee-Gittens, **Han, G.**, Merianos, A. L. (2022) "Child Tobacco Smoke Exposure, Indoor Home Characteristics, and Housing Stability among a National Sample of U.S. Children," *Toxics*, 10(11):639. DOI: 10.3390/toxics10110639.
- 94.* **Han, G.**, Santner, T. J, Lin, H., Yuan, A. (2022) "**Bayesian-frequentist Hybrid Inference in Applications with Small Sample Sizes**," *The American Statistician*, in print, DOI:10.1080/00031305.2022.2127897.
93. Lawley, K. S., Rech, R. R., Gomez A. A. P., Hopkins, L., **Han, G.**, Amstalden, K., Welsh, C. J., Young, C. R., Jones-Hall, Y., Threadgill, D. W., Brinkmeyer-Langford, C. L. (2022) "Viral Clearance and Neuroinflammation in Acute TMEV Infection Vary by Host Genetic Background," *International Journal of Molecular Sciences*, 23, 10482. DOI: 10.3390/ijms231810482.
92. Kato, Y., Lim, A. Y., Sakolish, C., Valdiviezo, A., Moyer, H., **Han, G.**, Rusyn, I. (2022) "Analysis of reproducibility and robustness of OrganoPlate_R 2-lane 96, a liver microphysiological system for studies of pharmacokinetics and toxicological assessment of drugs," *Toxicology in Vitro*, 85:105464. DOI: 10.1016/j.tiv.2022.105464.
91. Ojha, K. R., Shin, S. Y., Padgham, S., Olmedo, F. L., Guo, B. (student), **Han, G.**, Woodman, C., Trache, A. (2022) "Age-associated dysregulation of integrin function in vascular smooth muscle," *Frontiers in Physiology*, 13, 913673. DOI: 10.3389/fphys.2022.913673.
- 90.* **Han, G.**(corresponding author), Schell, M. J., Reisenbichler, E. S., Guo, B. (student), Rimm, D. L. (2022) "**Determination of the Number of Observers Needed to Evaluate a Subjective Test and Its Application in Two PD-L1 Studies**," *Statistics in Medicine*, 41(8): 1361-1375. DOI: 10.1002/sim.9282.
89. Morrison, S., **Han, G.**, Elenwa, F. (student), Vetto, J., 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. (2022) "Is the Presence of Tumor Infiltrating Lymphocytes Predictive of Outcomes in Melanoma Patients?" *Cancer*, 128(7), 1418-1428.
88. Subramanian, S., **Han, G.**, Olson, N. L. (student), Leong, S. P., Kashani-Sabet, M., White, R., Zager, J. S., Sondak, V. K., Messina, J. L., Pockaj, B., Kosiorek, H. E., Vetto, J., Vetto, J., Fowler, G., Schneebaum, S., Han, D. (2022) "Regression in melanoma is significantly associated with a lower regional recurrence rate and better recurrence-free survival," *Journal of Surgical Oncology*, 125(2):229-238.
87. Morrison, S., **Han, G.**, Elenwa, F. (student), Vetto, J., 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. (2022) "Is there a Relationship between TILs and Regression in Melanoma?" *Annals of Surgical Oncology*, 29(5), 2854-2866.
86. Towne, S. D. Jr., Callaghan, T. H., Cai, Y., Smith, M. L., Ferdinand, A. O., **Han G.**, Bolin J. L. (2022) "Social and structural inequities in exposure to diabetes education among adults diagnosed with diabetes in the US," *Journal of Immigrant and Minority Health*, accepted.

- 85.* **Han, G.** (corresponding author), Pusztai, L., and Hatzis, C. (2021) “**Data augmentation based on waterfall plots to increase value of response data generated by single arm Phase II trials,**” *Contemporary Clinical Trials*, 110:106589, DOI: 10.1016/j.cct.2021.106589.
84. Lawley, K. S., Rech, R., Elenwa, F. (student), **Han, G.**, Gomez A. A. P, Amstalden, K., Welsh, C. J., Young, C. R., Threadgill, D., Brinkmeyer-Langford, C. (2021) “Host genetic diversity drives variable central nervous system lesion distribution in chronic phase of Theiler’s Murine Encephalomyelitis Virus (TMEV) infection,” *PLOS ONE*, 16(8): e0256370. DOI: 10.1371/journal.pone.0256370; PMID: PMC8378701
83. Juengst, S. B., Supnet, C., Kew, N., Silva, V., Vega, M., **Han, G.**, Kelley, B., Smith, M. L., Maestre, G., (2021) “Bilingual Problem-Solving Training for Caregivers of Adults with Dementia: A Randomized, Factorial-Design Protocol for the CaDeS Trial,” *Contemporary Clinical Trials*, 108:106506. DOI: 10.1016/j.cct.2021.106506. PMID: 34273551.
82. Scott, E. M., Vallonea, L. V., Olson, N. L. (student), **Han, G.**, Lepiz, M. A. L., Simon, B. T. (2021) “Analgesic effects of a retrobulbar block with 0.75% ropivacaine in dogs undergoing an enucleation,” *Veterinary Anaesthesia and Analgesia*, 48(5), 749-758. DOI:10.1016/j.vaa.2021.04.006.
81. Subramanian, S., **Han, G.**, Olson, N. L. (student), Leong, S. P., Kashani-Sabet, M., White, R., Zager, J. S., Sondak, V. K., Messina, J. L., Pockaj, B., Kosiorek, H. E., Vetto, J., Fowler, G., Schneebaum, S., Han, D. (2021) “Regression is significantly associated with outcomes for patients with melanoma,” *Surgery*, 1487-1494. DOI:10.1016/j.surg.2021.05.010.
80. Page, R. L., **Han, G.**, Akinlotan, M., Gandhi, H. (student), Perez-Patron, M., Kochan, K. (2021) “Telomere Length and Preterm Birth in Pregnant Mexican-Origin Women,” *Maternal Child Health Journal*, 25: 1798–1805.
79. Arnota, S., **Han, G.**, Fortino, J., Han, D., Fowler, G., Vetto, J. T. (2021) “Utility of a 31-Gene Expression Profile for Predicting Outcomes in Patients with Primary Cutaneous Melanoma Referred for Sentinel Node Biopsy,” *The American Journal of Surgery*, 221(6):1195-1199. DOI:10.1016/j.amjsurg.2021.03.028.
78. Page, R. L., Perez-Patron, M., **Han, G.**, Burdette, A., Badejo M. (2021) “Religiosity, Acculturation, and Preterm Birth in Mexican-Origin Women: A Pilot Study,” *Hispanic Health Care International*, 19(3):155-162. DOI:10.1177/1540415320976643.
77. Han, D., **Han, G.**, Duque, M. T., Morrison, S., Leong, S. P., Kashani-Sabet, M., Vetto, J., White, R., Schneebaum, S., Pockaj, B., Mozzillo, N., Sondak, V. K., Zager, J. S. (2021) “Sentinel Lymph Node Biopsy is Prognostic in the Thickest Melanoma Cases and Should be Performed for Thick Melanomas,” *Annals of Surgical Oncology*, 28(2):1007-1016.

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1. **Han, G.** and Santner, T. J. (2007) “User Manual for Hierarchical Qualitative and Quantitative Input Variable (HQQV) Software.”

SOFTWARE
DEVELOPED

All software is available upon request.

- *ONEST* MATLAB package (2021): Observers Needed for Evaluation of Subjective Tests.
- *ONEST* R package (2020): Observers Needed for Evaluation of Subjective Tests. Available on **The Comprehensive R Archive Network (CRAN)** website <https://cran.r-project.org/web/packages/ONEST/index.html> (updated in July 2021) and **GitHub** website <https://github.com/hangangtrue/ONEST>
- *RPEXE.RPEXT* R package (2017): Reduced piecewise exponential estimate/test R package. Available on **The Comprehensive R Archive Network (CRAN)** website <https://cran.r-project.org/web/packages/RPEXE.RPEXT/index.html> (updated in June 2020) and **GitHub** website <https://github.com/hangangtrue/RPEXE.RPEXT>
- *RPEXE* (2014): Reduced piecewise exponential estimate of the distribution of time-to-event data, available in R and MATLAB

- *STaC* (2009): Simultaneous determination of tuning and calibration parameters for computer experiments
- *HQQV* (2009): A hierarchical Bayesian model for computer experiments having quantitative and qualitative mixed variables
- *MATLAB PErK* (2007): A MATLAB program for parametric empirical kriging

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