

## WENYAW CHAN

**ADDRESS:** Department of Biostatistics and Data Science, School of Public Health  
The University of Texas Health Science Center at Houston  
1200 Pressler Street, E827, Houston, Texas 77030

**E-MAIL:** Wenyaw.Chan@uth.tmc.edu

**TELEPHONE NUMBERS:** (713) 500-9321 (Office)  
(713) 500-9530 (Fax)

### EDUCATION:

Ph.D.	Statistics	1984	The Ohio State University
M.S.	Statistics	1982	Purdue University
M.S.	Mathematics	1978	The Ohio State University
B.S.	Mathematics	1974	National Central University

### PROFESSIONAL EXPERIENCE:

2003 - Present Professor of Biostatistics and Data Science, School of Public Health, UT Health Science Center at Houston (Academic Coordinator 2010-2016)

2014 - Present Distinguished Teaching Professor, The University of Texas System

1997- 2003 Associate Professor of Biometry, School of Public Health, UT Health Science Center at Houston (Convenor, International and Family Health, 1999 – 2001)

1989-1997 Assistant Professor of Biometry, School of Public Health, UT Health Science Center at Houston

1988-1989 Visiting Assistant Professor of Statistics, The Ohio State University

1984-1988 Assistant Professor of Mathematics & Statistics, Case Western Reserve University

### ADJUNCT APPOINTMENTS:

2010 - Present Department of Internal Medicine, Baylor College of Medicine.

1989- 2008 Department of Biostatistics and Applied Mathematics (formally Department of Biomathematics), The University of Texas M.D. Anderson Cancer Center

## **HONORS:**

### **State or National Awards:**

- Fellow, American Statistical Association, 2016-present.
- Elected Member of The University of Texas Kenneth I. Shine, M.D. Academy of Health Science Education, 2013-present.
- Recipient of the University of Texas Regents' Outstanding Teaching Award, 2013.
- Academy Member of ASPH/Pfizer Public Health Academy of Distinguished Teachers, 2012-2017.

### **Intramural Recognition:**

- Runner-Up, McGovern Teaching Award, 2019, School of Public Health, University of Texas-Health Science Center at Houston.
- Nominee for ASPH/Pfizer Public Health Teaching Award, 2012, Association of Schools of Public Health.
- Finalist for The University of Texas Academy of Health Science Education, 2012.
- Finalist for the UT Regents' Teaching Award, 2012, University of Texas-Health Science Center at Houston.
- Division Nominee for President's Scholar Award for Teaching, 2010, University of Texas-Health Science Center at Houston.
- Dean's Teaching in Excellence Award, 1995, 2002, 2009, 2010 and 2013, School of Public Health, University of Texas-Health Science Center at Houston.
- Nominee for the President's Award for mentoring Women, 2000. The Committee on the Status of Women, University of Texas-Health Science Center at Houston.
- Peer Recognition for Outstanding Scholarship, 1996, 1997, 1998, 1999, 2000 and 2001. University of Texas-Health Science Center at Houston.
- FIP Scholarship Incentive Award, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002 and 2003 School of Public Health, University of Texas-Health Science Center at Houston.
- FIP Academic Incentive Award, 2012, 2013, 2014, 2015, 2016 and 2017 School of Public Health, University of Texas-Health Science Center at Houston.
- FIP Research Incentive Award, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016 and 2017. School of Public Health, University of Texas-Health Science Center at Houston.
- Finalist for John P. McGovern Teaching Award, 1993, 1994, 1995, 1996, 1998 and 2003, School of Public Health, University of Texas-Health Science Center at Houston.
- Recipient of Best Recitation Instructor Award, 1983, Department of Statistics, The Ohio State University.
- Nominee for Graduate Teaching Award, 1979. The Ohio State University.

## **PUBLICATIONS:**

### **Books:**

Kapadia, A., **Chan, W.** and Moye, L. (2005). *Mathematical Statistics with Applications*. Chapman & Hall/CRC Press, New York. .

Lederman, R., Williams, S., **Chan, W.** and Roberts-Gray, C. (2008) *PARE: Parent-adolescent relationship education: Promoting family communication, preventing teen pregnancy and STD*. ETA Associates, Santa Cruz, CA.

### Articles in Refereed Journals:

1. Chang, J. and **Chan, W.** (2025) “Latent Classification of Time-Dependent Transition Rates in Longitudinal Binary Outcome Data”. *Statistical Methods in Medical Research*. (in press) (**Corresponding author**).
2. Desai, M., Sharma, S., Domgue, J., Chido-Amajuoyi, O., Yu, R., **Chan, W.**, Darkoh, C. and Shete, S. (2025) “Healthcare professionals’ awareness of and barriers to shared-clinical-decision-making for HPV vaccination among adults 27–45 years”. *Human Vaccines & Immunotherapeutics*. 21(1), <https://doi.org/10.1080/21645515.2025.2560061>
3. Hess, J. and **Chan, W.** (2025) “Low-Level PM2.5 Exposure and Mortality in the Medicare Cohort: The Role of Native American Beneficiaries”. *Int. J. of Environ. Res. Public Health*. 22(9), 1340; <https://doi.org/10.3390/ijerph22091340>
4. Zapata, A., Wood, L., Galvin, A., **Chan, W.**, Thomas, T., Tsai, J., Way, H., Mueller, E., Hernandez, D. (2025) “Domains of housing instability and intimate partner violence risk among U.S. Tenants”. *Int. J. Environ. Res. Public Health*, 22(8), 1212; <https://doi.org/10.3390/ijerph22081212>
5. Liang, F., **Chan, W.**, Swartz, M., and Dabaja, B. (2025) “Incorporating latent survival trajectories and covariate heterogeneity in time-to-event data analysis: a joint mixture model approach” *BMC Medical Research Methodology* 25:132. <https://doi.org/10.1186/s12874-025-02580-8> (**Corresponding author**).
6. Kuo, J., **Chan, W.** Leon-Novelo, L., Lairson, D., Brown, A., Fujimoto, K. (2024) “Latent classification model for censored longitudinal binary outcome” *Statistics in Medicine*. 43: 3943-3957. <https://doi.org/10.1002/sim.10156> PMID: 38951953. (**Corresponding author**).
7. Carstens, C.K., Salazar, J.K., Sharma, S.V., Chan, W., Darkoh, C. (2024) “Viability discrimination of bacterial microbiomes in home kitchen dish sponges using propidium monoazide treatment”. *Environmental Microbiology Reports*. 16(5): e7006. . doi: [10.1111/1758-2229.70006](https://doi.org/10.1111/1758-2229.70006) PMC11497490. PMID: [39440931](https://pubmed.ncbi.nlm.nih.gov/39440931/).

8. Oblea, P., Nguyen-Wu, E., Siaki, L., Cho, S., Romito, K., and **Chan, W.** (2024) "Impact of Hydrocolloid Dressing and Moisturizing Cream as Facial Skin Protectants Among Health Care Workers" *Military Medicine*. 189(11-12):e2523-e2529. <https://doi.org/10.1093/milmed/usae202> PMID: 38771104.
9. Alkhulaifi, F., Al-Hooti, S., Al-Zenki, S., Alomirah, H., Qian, X., **Chan, W.**, Wu, F. and Darkoh, C. (2024) "Association of Nightly Fasting, Meal Frequency, and Meal Skipping Meals with Metabolic Syndrome among Kuwaiti Adults". *Nutrients*. Vol 16, issue 7. 984.
10. Ngan, E., **Chan, W.**, Leon-Novelo, L., Pavlik, V. (2023) "Estimation of non-monotonic transition rates in a semi-Markov process with covariates adjustments and application to caregivers' stress data" *Statistics in Medicine*. 42:5646-5656. <https://doi.org/10.1002/sim.9930> (**Corresponding author**).
11. Chang, J., Chan, H. Lin, J. and **Chan, W.** (2023) "Non-homogeneous continuous-time Markov chain with covariates: applications to ambulatory hypertension monitoring" *Statistics in Medicine*. 42: 1965-1980. doi: 10.1002/sim.9707. PMID: 36896833. (**Corresponding author**).
12. Vaughan, E.M., Cardenas, V.J., **Chan, W.** Amspoker, A., Johnston, C., Virani, S., Ballantyne, C. and Naik, A. (2024) Implementation and Evaluation of a mHealth-Based Community Health Worker Feedback Loop for Hispanics with and at Risk for Diabetes. 39: 229-238. *J. General Internal Medicine*. <https://doi.org/10.1007/s11606-023-08434-7>. PMID: 37803098 PMCID: [PMC10853118](https://doi.org/10.1007/s11606-023-08434-7)
13. Ghosh, A., **Chan, W.**, Younes, N., and Davis, B. (2023) "A dynamic risk model for multi-type recurrent events". *American J. of Epidemiology*. 192:621-631. doi.org/10.1093/aje/kwac213 PMID: 36549905. PMCID: PMC10404068. (**Corresponding author**).
14. Chen, H., Lyu, H., **Chan, W.**, De La Cruz, A., Calarge, C. (2023) "Utilization and predictors of adjuvant metformin in children and adolescents on second-generation antipsychotics (mixed receptor antagonists)" *J. of the American Academy of Child & Adolescent Psychiatry*. <https://doi.org/10.1016/j.jaac.2023.02.017>. PMID: 37245706. PMCID: PMC10750998.
15. Reader, S., Breckenridge, E., **Chan, W.**, and Linder, S. (2023) "Dimension Reduction of 911 Good Samaritan Laws: Drawing Inferences from Policy Surveillance" *Drug and Alcohol Dependence* DOI: 10.1016/j.drugalcdep.2023.109934
16. Oluyomi, A., Mazul, A., Dong, Y., White, D., Hartman, C., Richardson, P., **Chan, W.**, Garcia, J., Kramer, J., and Elizabeth Chiao, E. (2023) "Area deprivation index

and segregation on the risk of HIV: a U.S. Veteran case-control study” *The Lancet Regional Health – Americas* 20: 100468. doi: 10.1016/j.lana.2023.100468. PMID: 36992707; PMCID: PMC10041556.

17. Osaghae, I., Darkoh, C., Chido-Amajuoyi, O., **Chan, W.**, Padgett-Wermuth, P., Pande, M., Cunningham, S., Shete, S. (2023) “Healthcare Provider’s Perceived Self-Efficacy in HPV Vaccination Hesitancy Counseling and HPV Vaccination Acceptance” *Vaccines*, 11, 300. <https://doi.org/10.3390/vaccines11020300>. PMID: 36851178 PMCID: PMC9965421
18. Vang, A., Shaitelman, S., Rasmussen, J., **Chan, W.**, Sevick-Muraca, E. Aldrich, M. (2023) “Plasma Cytokines/chemokines as Predictive Biomarkers for Lymphedema in Breast Cancer Patients” *Cancers*. 15, 676. <https://doi.org/10.3390/cancers15030676>
19. Carstens, C.K., Salazar, J.K., Sharma, S.V., Chan, W., Darkoh, C. 2022. Evaluation of the Kitchen Microbiome and Food Safety Behaviors of Predominately Low-Income Families. *Front. Microbiol.* 13:987925. PMID: 36246211. PMCID: PMC9557297.
20. Carstens, C.K., Salazar, J.K., Sharma, S.V., Chan, W., Darkoh, C. 2022. Food Safety Attitudes, Behaviors, and Hygiene Measures among Predominately Low-Income Parents in Houston, Texas. *J. Food Prot.* 85(12):1745-1755. PMID: 36048912. DOI: 10.4315/JFP-22-179
21. Aldrich , M., McWain, M., **Chan, W.**, Rasmussen, J., DeSnyder, S., Sevick, E., and Shaitelman , S. (2022) “Dermal Backflow, Detected by Near-infrared Fluorescence Lymphatic Imaging, Is an Early Prognostic Marker of Breast Cancer-related Lymphedema” *Journal of Vascular Surgery Venous and Lymphatic Disorders* 10(2):553 doi: 10.1016/j.jvsv.2021.12.027
22. Nwana, N., **Chan, W.**, Langabeer, J. Kash, B., Krause, T. (2022) “Does hospital location matter? Association of neighborhood socioeconomic disadvantage with hospital quality in US metropolitan settings” *Health & Place* 78, doi: 10.1016/j.healthplace.2022.102911, PMID: 36375409
23. Osaghae, I., Darkoh, C., Chido-Amajuoyi, O., **Chan, W.**, Padgett-Wermuth, P., Pande, M., Cunningham, S., Shete, S. (2022) “HPV Vaccination Training of Healthcare Providers and Perceived Self-Efficacy in HPV Vaccine-Hesitancy Counseling” *Vaccines* 10(12), 2025; <https://doi.org/10.3390/vaccines10122025>. PMID: 36560435. PMCID: PMC9781563.
24. Osaghae, I., Darkoh, C., Chido-Amajuoyi, O., **Chan, W.**, Wermuth, P., Pande, M., Cunningham, S., Shete, S. (2022) “Association of Provider HPV Vaccination Training with Provider Assessment of HPV Vaccination Status and

Recommendation of HPV Vaccines” *Human Vaccines & Immunotherapeutics*  
<https://www.tandfonline.com/doi/full/10.1080/21645515.2022.2132755>. PMID:  
36265005. PMCID: PMC9746413.

25. Du X., Song L., Schulz P., Xu H, **Chan W.** (2022) “Associations between vascular diseases and Alzheimer’s disease or related dementias in a large cohort of men and women with colorectal cancer”. *J. of Alzheimer’s Disease*. 90:211-231. PMID: [36093703](https://pubmed.ncbi.nlm.nih.gov/36093703/). PMCID: PMC9661325.
26. Gandy, K., Chambers, T., Raghubar, K., Ocku, M.F., Chintagumpala, M., Taylor, O., Mahajan, A., Kahalley, L.S., **Chan, W.**, Grosshans, D.R., Brown, A.L., Ris, D.M. (2022). A Prospective Evaluation of Fatigue in Pediatric Brain Tumor Patients Treated with Radiation Therapy. *J. of Pediatric Oncology Nursing*. 39(6):358-365. PMID: 36285825.
27. Aldrich, M., Rasmussen J., DeSnyder S., Woodward, W, **Chan, W.**, Sevick-Muraca E., Mittendorf, E., Smith., B., Stauder., M., Strom, E., Perkins, G., Hoffman, K., Mitchell, M., Barcenas, C., Isales, L., Shaitelman, S. (2022) “Prediction of breast cancer-related lymphedema by dermal backflow detected with near-infrared fluorescence lymphatic imaging” *Breast Cancer Research and Treatment*.  
<https://doi.org/10.1007/s10549-022-06667-4>
28. Du X., Song L., Schulz P., Xu H, **Chan W.** (2022) “Risk of developing Alzheimer’s disease and related dementias in association with cardiovascular disease, stroke, hypertension and diabetes in a large cohort of women with breast cancer and with up to 26 years of follow-up”. *J. of Alzheimer’s Disease*. 87: 415-432. PMID: 35311707.
29. Chen, D., Kuo, J., Wright, A., Chuang, A., **Chan, W.**, Feldman, R., and Crowell, E. (2021) “Determining risk factors that affect progression in patients with nonproliferative diabetic retinopathy” *J. of Ophthalmology*. Article ID 6064525, 10 pages. <https://doi.org/10.1155/2021/6064525>. PMID: 34888097. PMCID: PMC8651358.
30. Chen, D., **Chan, W.**, Thompson, Z., Thapa, R., Beg, A., Saltos, A., Chiappori, A., Gray, J., Haura, E., Rose, E. and Creelan, B. (2021) “Utilization of target lesion heterogeneity for treatment efficacy assessment in late stage lung cancer”. *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0252041>. PMID: 34197475 PMCID: PMC8248740
31. Kim, Y., Ganduglia-Cazaban, C., **Chan, W.**, Lee, M., Goodman, D. (2021) “Trends in neonatal intensive care unit admissions by race/ethnicity in the United States, 2008–2018: Scientific Reports. 11:23795. <https://doi.org/10.1038/s41598-021-03183-1>. PMID: 34893675 PMCID: PMC8664880.

32. Lalani, K., Revere, L., **Chan, W.**, Champagne-Langabeer, T., Tektiridis, J. and Langabeer, J. (2021) "Impact of External Environmental Dimensions on Financial Performance of Major Teaching Hospitals in the U.S" *Healthcare* 9, 1069. <https://doi.org/10.3390/healthcare9081069>. PMID: 34442207. PMCID: PMC8394138.
33. Weis, K., Yuan, T., Walker, K., Gibbons, T. and **Chan, W.** (2021) "Associations between Physiological Biomarkers and Psychosocial Measures of Pregnancy-Specific Anxiety and Depression with Support Intervention" *Int. J. Environ. Res. Public Health*, 18(8043), 1-10. <https://doi.org/10.3390/ijerph18158043>. PMID: 34360332. PMCID: PMC8345540.
34. Sood, A., Pavlik, V. Darby, E, **Chan, W.**, and Doody, R. (2021) "Different Cognitive Profiles Are Associated with Progression Rate and Age at Death in Probable Alzheimer's Disease" *J. of Alzheimer's Disease*. 80:735-747. PMID: 33579838
35. Zhong, C., Xu, L., Peng, H., Tam, S, Dahlstrom, K., Wu, C., Fu, S., **Chan, W.**, Sturgis, E., Ramondetta, L., Rong, L., Lairson, D., Miao, H. (2021) "An Economic and Disease Transmission Model of Human Papillomavirus and Oropharyngeal Cancer in Texas" *Scientific Report*. 11:1802. PMID: 33469199. PMCID: PMC7815750.
36. Karpes Matusевич, A., Duan, Z., Zhao, H., Lal, L., **Chan, W.**, Suarez-Almazor, M., Giordano, S., Swint, J. and Lopez-Olivo, M. (2021) "Treatment Sequences After Discontinuing a Tumor Necrosis Factor Inhibitor in Patients With Rheumatoid Arthritis: A Comparison of Cycling Versus Swapping Strategies". *Arthritis Care & Research*. <https://doi.org/10.1002/acr.24358>. PMID: 32558339.
37. Karpes Matusевич, A., Lal, L., **Chan, W.**, Swint, J., Cantor, S., Suarez-Almazor, M., and Lopez-Olivo, M. (2021) "Cost-utility analysis of treatment options after initial tumor necrosis factor inhibitor therapy discontinuation in patients with rheumatoid arthritis" *J. of Managed Care and Specialty Pharmacy*. 27:73-83. doi: 10.18553/jmcp.2021.27.1.073. PMID: 33377443; PMCID: PMC10391179.
38. Assassi, P., Selwyn, B., Lounsbury, D., **Chan, W.**, Harrell, M., and Wylie-Rosett, J. (2021) "Baseline dietary patterns of children enrolled in an urban family weight management study: Associations with demographic characteristics" *Child and Adolescent Obesity*. 4:37-59. doi: 10.1080/2574254x.2020.1863741. Epub 2021 Mar 1. PMID: 36311169; PMCID: PMC9608350.
39. Benoit, JS, Chan W, Piller W, Doody R. (2020) "Longitudinal Sensitivity of Alzheimer's Disease Severity Staging". *American Journal of Alzheimer's Disease and Other Dementias*. Vol 35: 1-8. doi:10.1177/1533317520918719

40. Kwak, M., Lal, L., Swint, J., Du, X., **Chan, W.**, Akkanti, B. and Dhoble, A. (2020) "Early tracheostomy in acute heart failure exacerbation". *Heart & Lung: The Journal of Cardiopulmonary and Acute Care*. 49:646-650. PMID: 32457003. DOI: 10.1016/j.hrtlng.2020.03.024
41. Phuar, H., Begley, C., **Chan, W.**, and Krause, T. (2020) "Tyrosine kinase inhibitors and the relationship with adherence, costs, and health care utilization in commercially insured patients with newly diagnosed chronic myeloid leukemia: a retrospective claims-based study". *Am J Clinical Oncology*. 43(7): 517-525. PMID: 32304434.
42. Wu, C., Lairson, D., Dahlstrom, K., Domgue, J., Fu, S., Sturgis, E and **Chan, W.** (2020) "Lifetime health care costs of oropharyngeal cancer for commercially insured patients in the United States" *Head & Neck*. 42:2321-2329. PMID: 32359131. <https://doi.org/10.1002/hed.26201> (**Corresponding author**)
43. Sonawane, K., Zhu, Y., **Chan, W.**, Aguilar, D., Deshmukh, A. and Suarez-Almazor, M. (2020) Association of Serum Folate and Cardiovascular Mortality in Adults with Rheumatoid Arthritis. *JAMA Network Open*. 2020 Feb 5;3(2): e200100. doi: 10.1001/jamanetworkopen.2020.0100. PMID: 32101310; PMCID: PMC7137687.
44. Weis, K. L., Walker, K. C., **Chan, W.**, Yuan, T. T., & Lederman, R. P. (2020). Risk of preterm birth and infant low birthweight in military women with increased pregnancy-specific anxiety. *Military Medicine*. 185(5-6) e678-e685. <https://doi.org/10.1093/milmed/usz399>. PMID: 31808825
45. Miguez, M., Bueno, D., Espinoza, L. **Chan, W.**, and Perez, C. (2020) "Among Adolescents, BDNF and Pro-BDNF Lasting Changes with Alcohol Use Are Stage Specific". *Neural Plasticity*. Article ID 3937627, 9 pages. <https://doi.org/10.1155/2020/3937627>
46. Bruhl, RJ, Perkison, WB, Hanania, NA, McNeill, LH, Oluyomi, AO, Minard, CG, Solomon, A., Hamilton W., **Chan, W.** Reyes, B. (32 authors, the HIITBAC Research) (2020) "Design of a home-based intervention for Houston-area African-American adults with asthma: Methods and lessons learned from a pragmatic randomized trial" *Contemporary Clinical Trials* 91:105977. DOI: 10.1016/j.cct.2020.105977 PMID: 32151753.
47. Peng, H., Aschenbrenner, A., von Sternberg, K., Mullen, P. and **Chan, W.** (2019) "A Continuous-time Markov Chain Approach with the Analytic Likelihood in Studies of Behavioral Changes" *Communications in Statistics – Theory and Methods*. 48:5756-5765. (**Corresponding author**)



48. Yu, X., **Chan, W.**, Swartz, M., and Piller, L. (2019) "Joint models of dynamics of mothers' stress and children's disease" *Communications in Statistics - Simulation and Computation*. 48:2775-2790. **(Corresponding author)**
49. Pavlik, V. N., **Chan, W.**, and Darby, E. (2019). Cohort effects in progression rate on cognitive and functional measures in an Alzheimer's disease clinical cohort. *Journal of Alzheimer's Disease*, 71(2), 659-669. <https://doi.org/10.3233/JAD-190661>
50. Rammah, A., Whitworth, K. W., Han, I., **Chan, W.** and Symanski, E. (2019) "Time-varying exposure to ozone and risk of stillbirth in a non-attainment urban region" *American J. of Epidemiology*. 188: 1288-1295.
51. Rubin, M., Yamal, J., **Chan, W.**, and Robertson, C. (2019) "Prognosis of six-month Glasgow outcome scale in severe traumatic brain injury using hospital admission characteristics, injury severity characteristics, and physiological monitoring during the first day post-injury" *J. of Neurotrauma*. 36:16  
<http://doi.org/10.1089/neu.2018.6217>
52. Phuar, H., Begley, C., **Chan, W.**, and Krause, T. (2019) "Tyrosine Kinase Inhibitors Initiation, Cost Sharing, and Health Care Utilization in Patients with Newly Diagnosed Chronic Myeloid Leukemia: A Retrospective Claims-Based Study". *J. of Managed Care & Specialty Pharmacy*. 25:1140-1150. doi: 10.18553/jmcp.2019.25.10.1140. PMID: 31556823; PMCID: PMC10397890.
53. Khan, M., Yang, E., Zhan, Y., Judd, R., **Chan, W.**, Nabi, F., Heitner, J. Kim, R., Klem, I, Nagueh, S., and Shah, D. (2019) "Association of left atrial volume index and all-cause mortality in patients referred for routine cardiovascular magnetic resonance: a multicenter study" *J. of Cardiovascular Magnetic Resonance*. 21:4. DOI:10.1186/s12968-018-0517-0. PMID: 30612579; PMCID: PMC6322235.
54. Upadhyay N., Patel, A., **Chan, W.**, Aparasu, R., Ochoa-Perez, M., Sherer, J., and Chen, H. (2019) "Reversibility of psychotropic medication induced weight gain among children and adolescents with bipolar disorders". *Psychiatry Research*. 276:151-159. PMID: 31085419.
55. Fu, S., Domgue, J., **Chan, W.**, Zhao, B., Ramondetta, L., and Lairson, D. (2019) "Cervical, Vaginal, and Vulvar Cancer Costs Incurred by the Medicaid Program in Publicly Insured Patients in Texas" *J. of Lower Genital Tract Disease*. 23:102-109. PMID: 30907776
56. Rammah, A., Whitworth, K. W., Han, I., **Chan, W.** and Symanski, E. (2019). "PM<sub>2.5</sub> metal constituent exposure and stillbirth risk in Harris County, Texas". *Environmental Research*. <https://doi.org/10.1016/j.envres.2019.05.047> Vol. 176:108516. PMID:31195296.

57. Kamdar, N., Hughes, S., **Chan, W.** Power, T., and Meininger, J. (2019) "Indirect effects of food insecurity on body mass index through feeding style and dietary quality among low-income Hispanic preschoolers" *J. Nutrition Education and Behavior*. 51:876-884. doi: 10.1016/j.jneb.2019.02.010. Epub 2019 Apr 8. PMID: 30975581; PMCID: PMC6625899.
58. Tee Lewis, P., Chen, T., **Chan, W.**, Symanski, E. (2019) "Predictors of residential mobility and its impact on air pollution exposure among children diagnosed with early childhood leukemia" *J. of Exposure Science & Environmental Epidemiology*. 29: 510-519.
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60. Miguez, M., **Chan, W.**, Espinoza, L., Tarter, R., and Perez, C. (2019) "Marijuana use among adolescents is associated with deleterious alterations in mature BDNF". *AIMS Public Health* 6: 4-14. doi: 10.3934/publichealth.2019.1.4. PMID: 30931339; PMCID: PMC6433615.
61. Rammah, A., Whitworth, K., Han, I., **Chan, W.**, Jimenez, M., Strom, S., Bondy, M., and Symanski, E. (2019) "A Mixed-Methods Study to Examine the Role of Psychosocial Stress and Air Pollution on Hypertension in Mexican-Origin Hispanics", *J. of Racial and Ethnic Health Disparities*. 6:12-21. doi: 10.1007/s40615-018-0490-1. Epub 2018 Apr 20. PMID: 29679333; PMCID: PMC6347581.
62. Chen, T., Du, X., **Chan, W.**, and Zhang, K. (2019) "Impacts of cold weather on emergency hospital admission in Texas, 2004-2013". *Environmental Research*. 169:139-146. doi: 10.1016/j.envres.2018.10.031. Epub 2018 Oct 30. PMID: 30453131.
63. Peng, H., Tam, S., Xu, L., Dahlstrom, K., Wu, C., Fu, S., Zhong, C., **Chan, W.**, Sturgis, E., Ramondetta, L., Rong, L., Lairson, D. and Miao, H. (2018) "Age-Structured Population Modeling of HPV-related Cervical Cancer in Texas and US" *Scientific Reports* 8: Article Number: 14346.
64. Lee, S., Begley, E., Morgan, R. **Chan, W.**, and Kim, S. (2019) "Addition of mHealth (Mobile Health) for Family Planning Support in Kenya: Disparities in Access to Mobile Phones and Associations with Contraceptive Knowledge and Use". *International Health*. 11(6): 463-471. doi: 10.1093/inthealth/ihy092. PubMed PMID: 30576546.

65. Koslovsky, M., Swartz, M., Leon-Novelo, L., **Chan, W.**, and Wilkinson, A. (2018) "The time-varying relations between risk factors and smoking before and after a quit attempt" *Nicotine & Tobacco Research*. 20:1231-1236. PMID:29059413. PMCID: PMC6121909.
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259. **Chan, W.**, Chuang, A., and Hardy, R. (1996), "Application of branching process under random environment in analyzing ophthalmologic data". *Mathematical Modelling and Scientific Computing*. 6:766-771.
260. **Chan, W.** (1996), "Maximizing the probability of pest extinction on a stochastic pest-predator model". *Statistics & Probability Letters*. 20:265-270.
261. Lai, D. and **Chan, W.** (1996), "A note on asymptotic distribution of permutation Statistics from mixing processes". *Communications in Statistics: Theory and Methods*, 25:2395-2401.
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264. Mazur, L., Moyer, V., Lally, P., and **Chan, W.** (1996), "Evaluation of a lead screening program in Houston, Texas". *Texas Medicine*. 92:54-57
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266. Peng, N., Pearl, D., **Chan, W.**, and Bartoszynski, R. (1993), "Linear birth and death process under the influence of disasters with time-dependent killing probabilities". *Stochastic Processes and Applications*. 45: 243-258.
267. **Chan, W.**, Bartoszynski, R., and Pearl, D. (1993), "Queues with breakdowns and customers discouragement". *Probability and Mathematical Statistics*. 14:77-87.
268. Polk-Walker, G., **Chan, W.**, Meltzer, A., Goldapp, G., and Williams, B. (1993), "Psychiatric recidivism: prediction factors". *Western Journal of Nursing Research* 15:163-173.
269. **Chan, W.** (1992), "A sum of ratios of combinations in sequential sampling". *Texas Journal of Science*. 44:362-363.
270. **Chan, W.**, Li\*, A., and Co, H. (1989), "Machine parameter selection for a stochastic flow system.". *IIE Transactions* 21:241-249.
271. Bartoszynski, R., Buhler, W., **Chan, W.**, and Pearl, D. (1989), "Population Processes under the influence of disasters occurring independently of population size". *Journal of Mathematical Biology*. 27:167-178.

#### **Peer-Reviewed Book Chapters/Proceedings:**

1. **Chan, W.**, Cybenko, G., Kantarcioglu, M., Leiss, E., Solorio, T., Thuraisingham, B., Verma, R. (2015) "Panel: Essential Data Analytics Knowledge for Cyber-security Professionals and Students". *International Workshop on Security and Privacy Analytics at ACM Conference on Data and Application Security and Privacy*. 55-57
2. Hamilton, W., Byun, D., **Chan, W.**, Jason, K., Han, Y., Lopez, R., Coarfa, V. and Lee, D. (2009) "A Pilot Study using EPA's CMAQ Model and Hospital Admission Data to Identify Multipollutant "Hot Spots" of Concern in Harris County, Texas". *Research Report, the Mickey Leland National Urban Air Toxics Research Center*. 15: 1-72.
3. Chen, P. Verma, M., Meininger, J., **Chan, M.** (2008) "Semantic Analysis of Association Rules". *Proceedings of the Twenty-First International Florida Artificial Intelligence Research Society Conference*. 270-275
4. Lederman, R., **Chan, W.** and Roberts-Gray, C. (2007) "Predictors of middle school youth educational aspirations: health risk attitudes, parental interactions, and parental disapproval of risk". *Parent-Child Relations: New Research*. Devore, D. M. ed. Nova Science Publishers, Inc. 197-205.
5. McGhee, C., Glasser, J., **Chan, W.** and Pomeroy, N., (2003) "Forecasting health care expenditures and utilization based on a Markov process and a deterministic cost



function in managed care settings”. *Crossing Boundaries: Statistical Essays in Honor of Jack Hall*. (John E. Kolasa and David Oakes, Editors), IMS Lecture Notes -- Monograph Series, Volume 43. 229-238.

6. **Chan, W.** and Peng, N. (2001), “Continuous time Markov chains on cyclic stages”. Proceedings of 10th international Symposium on Applied Stochastic Models and Data Analysis (Invited Session), 301-306.
7. Shieh, Y., Roberson, G., **Chan, W.**, and Chen, D. (1998) “A Stochastic Model for Scheduling Programs to Maximize Outcome”. *Computer-Based Medical Systems, IEEE Computer Society*. 113-116.
8. Elsouki, R., **Chan, W.**, Geara, F. and Kapadia, A. (1997), “Modelling the survival of T-cell lymphocytes using branching processes with random number of ancestors”. *Advances in Mathematical Populations Dynamics-Molecules, Cells and Man. World Scientific*. 283-296.
9. Hsu, H. and **Chan, W.** (1995), “Logistic regression with incompletely observed binary covariates” *Proceedings of Biometrics Section, Joint Statistical Meetings*. 219-224.
10. **Chan, W.** and Chuang, A. (1995), “A Markov model for longitudinal count data”. *Proceedings of Biometrics Section, Joint Statistical Meeting*. 355-360.

#### **Editorial:**

Bartoszynski, R., Buhler, W., **Chan, W.**, Pearl, D. and Puri, P. (1988) Population Processes under the Influence of Independently Occurring Disasters, Johannes Gutenberg Universitat, Mainz, Germany.

**Chan, W.** (2013) Statistical Methods in Medical Research. Model Assisted Statistics and Applications. 83-84.

#### **SELECTED ABSTRACTS/CONFERENCE PRESENTATIONS:**

1. Ghosh, A., **Chan, W.**, Younes, N. and Davis, B. “A dynamic risk model for multi-type recurrent events”, presented at Joint Statistical Meetings in August, 2021.
2. Mohammadi, K., **Chan, W.**, and Pavlik, V. “Analysis of Longitudinal Categorical Data Using a Continuous Time Semi-Markov Chain Model” presented at Joint Statistical Meetings in August, 2020.
3. Rubin\*, M., **Chan, W.**, Yamal, J., and Robertson, C. “Effect of Longitudinal Intracranial Pressure on Ordinal Glasgow Outcome Scale Using a Joint Model Approach”, presented at Joint Statistical Meetings in July, 2018.

4. Yu, X, **Chan, W.**, and Pal, P. “A Two-Stage Method to Analyze Multivariate Cluster Biomarkers in Prediction on a Single Binary Outcome”, presented at Joint Statistical Meetings in July, 2018.
5. Chen, T., **Chan, W.**, Shi, Q., Wang, X. and Cleeland, C. “Modeling a Longitudinal Covariate as Continuous Time Markov Chain in a Survival Framework”, presented at Joint Statistical Meetings in July, 2018.
6. Rubin\*, M., **Chan, W.**, Yamal, J., and Robertson, C. “A Joint Logistic Regression and Covariate-Adjusted Continuous-Time Markov Chain Model with Application in Predicting 6-Month Outcome After Traumatic Brain Injury”, presented at Joint Statistical Meetings in August, 2017.
7. Peng\*, H., **Chan, W.**, Wu, C., Miao, H., and Lairson, D. “Longitudinal regression model for a continuous skewed outcome with zero inflated observations with application to oropharyngeal cancer cost”, presented at Joint Statistical Meetings in August, 2017.
8. Peng\*, H., **Chan, W.**, and Doody, R. “Use non-linear mixed effects model to predict unobservable AD symptom duration”, presented at Joint Statistical Meetings in August, 2016.
9. Benoit\*, J., **Chan, W.**, Pillar, L., and Doody, R. “A Hidden Markov Model Approach to Analyzing Longitudinal Alzheimer's Disease Stages Subject to Possible Misclassification”, presented at Joint Statistical Meetings in August, 2016.
10. Darby\*, E., **Chan, W.**, Symanski, E. and Doody, R. “Joint Modeling of Longitudinal Cognitive Responses and Survival Time in an Alzheimer's Disease Cohort Study”, presented at Joint Statistical Meetings in August, 2016.
11. Peng\*, H., Wu, C. and **Chan, W.** “Some hybrid approaches to prediction of a binary outcome”, presented at Joint Statistical Meetings in August, 2015.
12. Peng\*, H., Aschenbrenner, A.. and **Chan, W.** “Estimating the Nucleotide Substitution Matrix Using a Full Four-State transition Rate Matrix”. presented at presented at Eastern North American Region of International Biometric Society, March, 2013.
13. **Chan, W.**, Yu, X. and Symanski, E. “Does imputation increase testing power?”, presented at Joint Statistical Meetings in August, 2013.

14. **Chan, W.**, Wu, C., Chen, L. and Symanski, E. “Logistic Regression of Binary independent Variables in a Bahadur Framework”, presented at Joint Statistical Meetings in July 2012.
15. Wu\*, C., **Chan, W.**, Benoit\*, J., and Doody, R. “Use of Markov Chain to Examine the Natural History of Alzheimer’s Disease”, presented at Eastern North American Region of International Biometric Society, March, 2012.
16. **Chan, W.**, Chen, L. and Han, Y. “Interval Grouping Analysis of Variance Model” presented at Eastern North American Region of International Biometric Society, March, 2009.
17. **Chan, W.**, Li, Y. and Yeh, H. “Analysis of longitudinal trinomial outcome through a surrogate variable” presented at Joint Statistical Meetings in August 2006.
18. Yeh\*, H. and **Chan, W.** “Estimation of transition probabilities in a discrete-time Markov chain with missing observations” presented at Joint Statistical Meetings in August 2006.
19. **Chan, W.**, and Li, Y. “A continuous-time Markov chain approach to data analysis on longitudinal categorical outcome” presented at Joint Statistical Meetings in August 2005.
20. **Chan, W.**, Lairson, D., Smith, D. and Li, Y. “Simulation of Breast cancer screening among women veterans” presented at ENAR annual meeting in April, 2005.
21. Mahnken\*, J., **Chan, W.**, and Freeman, J. “Maximum likelihood estimates for incomplete bivariate survival data and their application in evaluating mammography efficacy” presented at Joint Statistical meeting in August 2003.
22. **Chan, W.**, Chen, D., Soong, S., Lin, D., Liu, R. “Statistical analysis of calibration data derived from the analysis of MDMA and related compounds” presented at Joint Statistical Meetings in August 2003.
23. Chang, C. and **Chan, W.** “Analysis of recurrent models: the Corpus Christi heart Project as an example” presented at Joint Statistical Meetings in August 2001.
24. Chen\*, D., Francis, D. and **Chan, W.** “Item response theory: an approach of Mixed models” presented at Joint Statistical Meetings in August 2001.
25. **Chan, W.**, Correa\*, A. and Kapadia, A. “Modeling a stochastic dynamic system with and application in health promotion” presented at Second Pacific Rim Conference on Mathematics, in January, 2001.

26. **Chan, W.** and Chuang, A. "An alternative approach to generalized linear mixed models" presented at NSF/CBMS Regional Conference on Generalized Linear Models and Related Topics in June, 1999.
27. Hsu\*, H. and **Chan, W.** "Logistic regression with incompletely observed binary Covariates" presented at Joint Statistical meetings in August, 1995.
28. **Chan, W.** and Chuang, A. "A Markov model for longitudinal count data" presented at Joint Statistical Meetings in August, 1995.
29. **Chan, W.**, Goff, D., Ramsey, D., Ortiz, C., Labarthe, D. and Nichaman, M. "Determinants of pre-hospital delay in the Corpus Christi heart project" presented at 2<sup>nd</sup> International Heart Health Conference, in June, 1995.
30. ElSouki\*, R., **Chan, W.** and Kapadia, A. "Modeling the survival of T-cell Lymphocytes" presented at 4<sup>th</sup> International Conference on Mathematical Population Dynamics, in May, 1995.
31. **Chan, W.** and Kapadia, A. "A stochastic model of smoking behavior under a Cessation program with relapses" presented at 4<sup>th</sup> International Conference on Mathematical Population Dynamics, in May, 1995.
32. Johnson\*, M., **Chan, W.** and Kapadia, A. "Computer simulation of a stochastic Model of smoking status and lung cancer incidence" presented at the 121<sup>st</sup> APHA conference in October, 1993.
33. **Chan, W.** Kapadia, A. Johnson, M. "A stochastic model of smoking status Cessation program" presented at ENAR annual meeting in March, 1993.
34. **Chan, W.**, Pearl D., and Bartoszynski, R. "M/M/1 queues with intervention and Binomial discouragement" presented at 21<sup>st</sup> Conference on Stochastic Progresses and Their Applications in July, 1992.
35. **Chan, W.**, Kapadia, A., and Johnson, M. "A stochastic model of smoking status Under cessation program" presented at 3<sup>rd</sup> International Conference on Mathematical Population Dynamics, in June, 1992.
36. **Chan, W.** "Optimal pest control for a stochastic pest-predator model." Presented at Joint Statistical Meetings in August, 1986.

#### INVITED PRESENTATIONS:

1. Chan, W. "Statistical Analysis of Cyber Security Data". Workshop on Security and Privacy 2018.

2. Benoit, J. and **Chan, W.** “A Hidden Markov Model approach to analyze longitudinal ternary outcome subject to possible misclassification” at the 5<sup>th</sup> Statistics Day - Texas A&M University-Kingsville, 2016.
3. Ma, J. and **Chan, W.** “A Bayesian Approach for Analyzing Data Generated from a Continuous Time Markov Chain” at the 4<sup>th</sup> Statistics Day - Texas A&M University-Kingsville, 2015.
4. **Chan, W.** “Using Markov Chains to Describe the Processes of Chronic Diseases” at University of Houston, College of Pharmacy, 2012, broadcasted to the monthly conference of the International Society for Pharmacoconomics and Outcomes Research (ISPOR) student network.
5. **Chan, W.** “Some Interesting Statistical Methods in Public Health Application” as Statistics Day Keynote Speaker- Texas A&M University-Kingsville, 2012.
6. **Chan, W.** “Some Uses of Statistical Models in Public Health Research and Introduction of UTSPH Biostatistics Programs” at Houston Baptist University, 2011.
7. **Chan, W.** “Career in Biostatistics” at Texas A&M University-Kingsville, 2010.
8. **Chan, W.** “Analysis of Longitudinal Trinomial Outcome Data and Career in Biostatistics” at National Central University, Taiwan, 2008.
9. **Chan, W.** “Career in Biostatistics” at University of Houston-Downtown, 2011.
10. **Chan, W.** “Introduction of UTSPH Biostatistics Programs” at University of Houston-Main Campus, 2010.
11. **Chan, W.** “Career in Biostatistics and Analysis of Longitudinal Trinomial Data” presented at Department of Mathematics, National Central University, Chung Li, Taiwan, in May, 2008.
12. **Chan, W.** “Analysis of Longitudinal Trinomial Data” presented at Institute of Statistical Sciences, National Chiao Tung University, Hsin-Chu, Taiwan, in May, 2008.
13. **Chan, W.** “Career in Biostatistics” presented at School of Rural Public Health, Texas A&M University-Kingsville, in April, 2003.
14. **Chan, W.** “Uses of Stochastic Models in Public Health Research” presented at School of Rural Public Health, Texas A&M Health Science Center in April, 2002.

15. **Chan, W.** “Uses of Stochastic Models in Public Health Research” presented at Department of Biostatistics, University of Texas- M.D. Anderson Cancer Center in November, 2001.
16. **Chan, W.** and Peng, N. “Continuous time Markov chains on cyclic stages” presented at 10<sup>th</sup> international Symposium on Applied Stochastic Models and Data Analysis (Invited Session), in June, 2001.
17. **Chan, W.** “Population processes under random environments” presented at Department of Statistics, National Chung-Hsin University, Taiwan in July, 1994.
18. **Chan, W.** “Queues with breakdowns and customers discouragement” presented in Institute of Statistics, National Chiao-Tung University, Taiwan in June, 1994.
19. **Chan, W.** “Examples of statistical consulting in the medical community” Presented at Department of Statistics, University of Michigan in September, 1992.

#### **SPONSORED RESEARCH:**

##### **K –awards**

##### **As a Mentor:**

1. “Improving prevention of mother-to-child HIV transmission outcomes in Malawi” funded by National Institute of Health/Fogarty International Center (K01). Duration: 9/2013 to 8/2018. Total direct cost: \$122,816. PI: Dr. Maria Kim.
2. “Facilitating Comprehensive Self and Proxy Symptom Assessments for Children with Cancer” funded by National Institute of Nursing Research (K23). Duration: 4/1/2021 - 3/31/2024. Total direct cost: \$445,144. PI: Dr. Stacey Crane.

##### **Training Grants**

##### **As Deputy Director:**

3. “Training Program in Biostatistics at UTHSCH-SPH”, funded by National Institute of General Medical Sciences, National Institute of Health. Duration: 07/2012-06/2016. Total direct cost: \$529,233. Director: Dr. Barbara Tilley.

##### **As a Mentor:**

4. “ASPIRE-AA Recruitment Program” funded by National Cancer Institute Transition Career Development Award (K22), National Institute of Health. Duration: 8/2010 to 7/2013. Total direct cost: \$524,730. PI: Dr. Ron Peter.

5. “Molecular Epidemiology of Chronic Liver Diseases” funded by National Cancer Institute (K07), National Institute of Health. Duration: 9/2005 to 8/2010. Total direct cost: \$118,806. PI: Dr. Manal Hassan.
6. “A Transdisciplinary Training Program for Public Health Researcher & Practitioners wanting to Impact Breast Cancer Disparities”, Susan G. Komen Breast Cancer Foundation, Duration: 08/2009-08/2011. Total Direct Cost: \$134,999. PI: Dr. Luisa Franzini.
7. “Training Program in Biostatistics at UTHSCH-SPH”, funded by National Institute of General Medical Sciences, National Institute of Health. Duration: 07/2006-06/2011. Total direct cost: \$620,864. PI: Drs. Barry Davis, Robert Hardy or Barbara Tilley.
8. “The UTSPH Training and Career Development Program for Cancer Prevention and Control” funded by National Cancer Institute, National Institute of Health. Duration: 09/2008-06/2013. Total direct cost: \$2,500,000. PI: Dr. Patricia Mullen.
9. “The UTSPH Training and Career Development Program for Cancer Prevention and Control” funded by National Cancer Institute, National Institute of Health. Duration: 09/2003-06/2008. Total direct cost: \$2,500,000. PI: Dr. Patricia Mullen.

## **Research Grants**

### **As Principal Investigator:**

#### **Current:**

1. “Socioeconomic predictors of mortality among Medicare beneficiaries in low PM2.5-exposure zip codes, 2015-2016”. Funded by Hess Epidemiology Services through American Petroleum Institute. 09/01/25 – 12/31/25. Total Local Budget: \$42,067.

#### **Past:**

2. “Demographic, health and air pollution exposure profile of Medicare decedents, 2015-2016”. Funded by Hess Epidemiology Services through American Petroleum Institute. 11/15/24 – 04/30/25. Total Local Budget: \$42,067.
3. “Evaluating telementoring to initiate a multidimensional diabetes program for Latino(a)s in community clinics: A Randomized Clinical Trial” Subcontracted from Baylor College of Medicine, through a grant funded by National Institute of Diabetes and Digestive and Kidney Diseases(R01DK129474) 09/01/2021-07/31/2023. Total Local Budget: \$161,212.
4. “Effectiveness of metformin for weight control in pediatric patients on SGA” Subcontracted from University of Houston, through a grant funded by National Institute of Mental Health (R21MH125039) 12/01/2020 – 10/31/2022. Total Local Budget: \$76,318.

5. “The Houston “Breathe Easy” Healthy Homes-Based Model for Multifamily Rental Communities: an Overview”, Subcontracted from Baylor College of Medicine, through a grant funded by Department of House and Urban Development. Duration: 11/18-02/22. Total Local Budget: \$99,003.
6. “Environmental Exposures, Health and Resilience before and after Hurricane Harvey in a Houston-area Cohort of African American Adults with Poorly Controlled Asthma” Subcontracted from Baylor College of Medicine, through a grant funded an administrative supplement of National Institute of Medicine 07/03/20 – 02/28/21. Total Local Budget: \$27,929.
7. “Identifying Novel Pharmacologic Risk Factors for Common Non-AIDS Defining Cancers in Individuals with Well-Controlled HIV Infection” Subcontracted from Baylor College of Medicine, through a grant funded by National Institute of Health 07/19-05/20. Total Local Budget: \$11,259.
8. “Temporal Changes in Progression Rate on Cognitive and Functional Measures in the ADMDC Clinical Cohort” Subcontracted from Baylor College of Medicine, through a grant funded by Roche Pharmaceuticals. Duration: 05/17-05/19. Total Local Budget: \$111,531.
9. “Biomarker Guided Therapies in Stage A/B Heart Failure” Subcontracted from Michael E. DeBakey VA Medical Center. Duration: 10/14-09/18. Total Local Budget: \$45,000.
10. “Statistical Method and Data Analysis” Subcontracted from Winters Center for Heart Failure Research, Baylor College of Medicine, Duration: 01/10 –08/18. Total Local Budget: \$ \$149,631.
11. “Proton Beam Radiation Therapy vs. Conventional Beam Radiation Therapy: Toxicities During & After Craniospinal Radiation Therapy in Children” Subcontracted from Baylor College of Medicine, through a grant funded by Cancer Prevention and Research Institute of Texas. Duration: 06/14-05/17. Total Local Budget: \$415,320.
12. “Statistical Analysis for the Project entitled “Breast cancer care and outcome by benefit type and care source among DoD beneficiaries: a comprehensive analysis along the continuum of the disease”. The Henry M. Jackson Foundation for the Advancement of Military Medicine. 08/10/15-03/31/17. Total Budget: \$31,665.
13. “The Role of BDNF on Risk Behaviors Decision Making” Subcontracted from Florida International University, through a NIH R01 grant. Duration: 07/12-07/16. Total Budget: \$ 97,212.



14. “Baylor-UTHouston Center for AIDS Research” Subcontracted from Baylor College of Medicine, through a NIH P30 core grant. Duration: 8/10 – 7/15. Total Budget: \$ 12,420/year. Co-director, Design and Analysis Core for the Center.
15. “Physician Uncertainty Reduction for Hypertension Control” Subcontracted from Baylor College of Medicine, through a NIH R01 grant. Duration: 12/10 – 11/11. Total Budget: \$ 15,000/year.
16. “Baylor-UTHouston Center for AIDS Research” Subcontracted from Baylor College of Medicine, through a NIH P30 core grant. Duration: 8/05 – 7/10. Total Budget: \$ 6, 423/year.
17. “A Pilot Analysis of Exposure to Air Pollutants and Hospital Admissions in Harris County, Texas” Subcontracted from Baylor College of Medicine, through a grant from Mickey Leland National Urban Air Toxic Research Center. Duration: 4/05-03/07. Total Budget: \$37,650.
18. “REACT Intervention”, Funded by Genetech Inc. Duration: 1/00 –08/08, Total Budget: \$11,963.94.
19. “Statistical Analysis of Early Teen Pregnancy Prevention Project”, Subcontracted from University of Texas Medical Branch at Galveston. Duration: 3/02 – 7/03, Total Budget: \$9,613.
20. “Community Intervention to Reduce MI Delay Time”, Funded by National Heart, Lung and Blood Institute. Time release: 30%, Duration: 1/00 – 5/01, Total Budget: \$65,197.29.

**As Investigator/Statistician:**

**Current:**

1. “Health Outcomes Post-Eviction Moratoria (HOPE-M)” Funded by National Institute of Health. PI: Dr. Daphne Hernandez. Time release: 5% (Yr=1), 15%(Yr=2), 20%(Yr=3), 20%(Yr=4). Duration: 9/23-8/26.
2. “ECHO The Houston ECHO Pregnancy Cohort Study Site” Funded by National Institute of Health. PI: K. Whitworth, E. Symanski, (BCM) / T. Northrup (UTHealth) (MPI). Time release: 5% each year. Duration: 06/26 – 05/30.
3. “Impacts of Structural Racism on Racial and Ethnic Disparities in Perinatal Health” Funded by National Institute of Health. PI: Drs. K. Whitworth (BCM), E. Symanski (BCM) / H. Mendez-Figueroa (Subcontract PI), Total Budget: \$639,711. Time release: (5% for years 1 and 2, 10% for years 3-5). Duration: 5/23-2/28.

4. "Evaluation of Food Security Scales among Hispanic Parents: A Cognitive Interview and Psychometric Properties Study" Funded by National Institute of Health. PI: Dr. Daphne Hernandez. Total Budget: \$169,028. Time release: 5% for year 2. Duration: 08/23-07/26.
5. "The Risk of Developing Alzheimer's Disease and Related Dementias Associated with Hypertension, Diabetes, and Drug Therapies for Cancer: Up to 30-year Follow-up for Older Medicare Beneficiaries" Funded by National Institute of Health. PI: Dr. Xianglin Du, Total Budget: \$1,558,666, Time release: 10%, Duration: 5/20 - 1/26.

**Past:**

6. "Exploring Pathways through which Structural Racism Impacts Children's Environmental Health" Funded by National Institute of Health. PI: K. Whitworth, E. Symanski, (BCM) / T. Northrup (UTHealth) (MPI). Total Budget: \$6,996,176. Time release: 5% each year. Duration: 09/23 – 05/25.
- 7.
8. "Can Microsurgeries Cure Lymphedema? An Objective Assessment" Funded by Cancer Prevention and Research Institute of Texas. PI: Dr. Melissa Aldrich. Total Budget: \$900,000. Time release: 2%. Duration: 03/20-02/24.
9. "Lymphatic Delivery of Checkpoint Blockade Inhibitors for More Effective Immunotherapy" Funded by Cancer Prevention and Research Institute of Texas. PI: Dr. Eva Sevick. Total Budget: \$900,000. Time release: 2%. Duration: 03/19-02/22.
10. "Lymphatic and systemic immunity changes in post-radiation lymphedema development" Funded by National Institute of Health. PI: Dr. Melissa Aldrich. Time release: 2% year1, 8% years 4 and 5. Duration: 4/16 - 3/21. Total Budget: \$240,721.
11. "Health and economic consequences of HPV-related disease in Texas" Funded by MD Anderson Moonshot Project. PI: Dr. David Lairson, Time release: 10%, Duration: 9/15 - 8/18. Total Budget: \$312,630.
12. "Impact of Health Insurance on Racial Disparities in Cancer Screening, Diagnosis, Treatment and Survival in Texas" Funded by Cancer Prevention and Research Institute of Texas. PI: Dr. Xianglin Du, Total Budget: \$415,320, Time release: 5%, Duration: 6/13 - 11/17.
13. "Comparative Effectiveness and Cost Effectiveness of Cancer Chemotherapy". Funded by Agency for Healthcare Research and Quality. PI: Dr. Xianglin Du, Total Budget: \$880,026, Time release: 10%, Duration: 4/12 - 1/17.

14. "Early Life Exposure to Air Toxics and the Risk of Childhood Leukemia". Funded by the National Cancer Institute. PI: Dr. Elaine Symanski, Total Budget: \$152,000. Time release: 4%, Duration: 05/12 - 04/14.
15. "CORE Grant for Vision research". Funded by the National Eye Institute. PI: Dr. Steve Massey (Module Director: Dr. Robert Hardy), Total Module Budget: \$276,104, Time Release: 5%, Duration 3/09 – 2/14.
16. "Hypertension in Mexican-Americans: Assessing Disparities in Air Pollutant Risks". Funded by Environmental Protection Agency. PI: Dr. Elaine Symanski, Total Budget: \$1,250,000. Time release: 8%, Duration: 08/10 - 07/14.
17. "Diagnostic nodal staging with nuclear and NIR molecular optical imaging" Funded by National Institutes of Health. PI: Dr. Eva Sevick, Total Budget: \$949,203, Time Release: 5%, Duration 10/10 – 8/13.
18. "Functional lymph angiography with NIR imaging" Funded by National Institutes of Health. PI: Dr. Eva Sevick, Total Budget: \$262,250, Time Release: 5%, Duration 10/10 – 6/12.
19. "CORE Grant for Vision research". Funded by the National Eye Institute. PI: Dr. Steve Massey (Module Director: Dr. Robert Hardy), Total Module Budget: \$276,104, Time Release: 10%, Duration 3/04 – 2/09.
20. "Postmarketing Surveillance of Toxicities Associated with Cancer Chemotherapy", Funded by Agency for Healthcare Research and Quality. PI: Dr. Xianglin Du, Total Budget: \$979,451, Time release: 5%, Duration: 4/07 - 3/11.
21. "Genetics and Biomarker Study of Alzheimer's Disease", Funded by Texas Council on Alzheimer's Disease and Related Disorders. PI: Dr. Steve Waring, Total Budget: \$131,450.00, Time release: 5-15%, Duration: 09/07 – 08/09.
22. "Trial of Interventions to Increase Utilization of Colorectal Cancer Screening & Promote Informed Decision" Funded by Center for Disease Control and Prevention. PI: Dr. Maria Fernandez, Total Budget: \$275,270, Time Release: 3%, Duration: 7/05-9/09.
23. "Relationship Between Personal Exposure to VOCs and Behavioral, Socioeconomic, and Demographic variables". Funded by Mickey Leland National Urban Air Toxic Research Center.. PI: Dr. Elaine Symanski, Total Budget: \$41,667, Time release: 3%, Duration: 12/06 - 11/07.
24. "Epidemiology of Disturbed Sleep" Funded by National Institute of Mental Health. PI: Dr. Robert Roberts, Total Budget: \$3,423,524, Time Release: 10%, Duration: 5/02 – 4/07.

25. "Evaluation of Chemotherapy Claims for Breast Cancer", Funded by National Cancer Institute. PI: Dr. Xianglin Du, Total Budget: \$130,550, Time release: 5%, Duration: 3/04 - 2/06.
26. "Tailored Interactive Intervention to Increase CRC Screening" Funded by National Cancer Institute. PI: Dr. Sally Vernon, Total Budget: \$2,220,400, Time release: 10%, Duration: 9/02 - 8/07.
27. "Evaluation of Exposure Measurement Error", Funded by National Institute for Occupational Safety and Health. PI: Dr. Elaine Symanski, Total Budget, \$147,813, Time Release: 10%, Duration: 9/03-8/05.
28. "Women Veterans and Breast Cancer Screening." Funded by National Cancer Institute. PI: Dr. Sally Vernon, Total Budget: \$2,123,691, Time release: 5%, Duration: 6/99 - 3/04.
29. "TLL Temple Foundation Stroke Project" Funded by T.L.L. Temple Foundation. PI: Dr. Lewis Morgenstern, Total Budget: \$1,500,000, Time Release: 17.6%, Duration: 8/99 - 7/01.
30. "Defining a Nursing Sensitive Blood Pressure Measure". Funded By National Institute of Nursing Research. PI: Dr. Pat Lier, Total Budget: \$103,000, Time release 2%, Duration: 8/97 - 7/99.
31. "H. Pylori Infection in Children on the U.S.-Mexico Border". Funded by National Institute of Diabetes and Digestive and Kidney Diseases. PI: Dr. Karen Goodman, Total Budget: \$148,885, Time Release: 5%, Duration:9/96 - 8/97.
32. "Significance of Interactions of Chemical and Biological Risk Factors in the Etiology of Neural Tube Defects Near the U.S.-Mexico Border". Funded by Center for Disease Control and Prevention. PI: Dr. Irena Cech, Total Budget: \$748,763, Time Release: 5%, Duration:9/96 - 9/01.
33. "Adolescent Blood Pressure and Anger: Ethnic Difference". Funded by National Institute for Nursing Research. PI: Dr. Janet Meininger, Total Budget: \$1,076,341, Time Release: 10%, Duration: 6/96 - 4/99.
34. "Surveillance of Out of Hospital CHD Deaths". Funded by the National Heart, Lung and Blood Institute. PI: Dr. David Goff/Dr. Milton Nichaman, Total Budget: \$831,099, Time Release: 5%, Duration: 9/94 - 8/97.
35. "Community Intervention To Reduce MI delay". Funded by the National Heart, Lung and Blood Institute. PI: Dr. David Goff/Dr. Milton Nichaman, Total Budget: \$3,486,820, Time Release: 5% - 30%, Duration: 8/94 - 12/99.

36. "CORE Grant for Vision research". Funded by the National Eye Institute. PI: Dr. Dianna Redburn (Module director: Dr. Robert Hardy), Total Module Budget: \$276,104, Time Release: 10%, Duration: 3/94 - 2/04.
37. "Corpus Christi Heart Project". Funded by the National Heart, Lung and Blood Institute. PI: Dr. Milton Nichaman, Total Budget: \$2,916,965, Time Release: 10%, Duration: 2/93 - 3/97.
38. "Cardiovascular Risk Assessment in Afro-American Girls." Funded by the National Heart, Lung and Blood Institute. PI: Dr. Wendall Taylor, Total Budget: \$570,838, Time Release: 10%, Duration: 2/92 - 1/97.
39. "Applicability of the Information Processing of Trauma Model." Funded by National Institute for Nursing Research. PI: Dr. Glenda Walker, Total Budget: \$110,423, Time Release: 5%, Duration: 6/91 - 6/93.
40. Coordinating Center for Clinical Trials, School of Public Health, UT- Houston On projects "Survival and Ventricular Enlargement Study and Cholesterol and Recurrent Events." Funded by Bristol-Myers-Squibb Company. PI: Dr. Mort Hawkins, Time Release: 50%, Duration: 4/91 - 2/93.

**As Statistical Consultant:**

1. The Geneva Foundation: "Impact of Hydrocolloid Barrier as Facial Skin Protectants Among Healthcare Workers". (PI: Pedro N. Oblea, Jr. PhD). 2022-2023.
2. The Geneva Foundation: "Mentors Offering Maternal Support (MOMS): Building Resilient Families". (PI: Col and Professor Karen Weis). 2014-2021.
3. Baylor College of Medicine: The Alzheimer's Disease and Memory Disorders Center. 2003-2017.

**TEACHING EXPERIENCE:**

At UTSPH:

- Design and Analysis of Longitudinal Data or Linear Mixed Models
- Generalized Linear Models
- Intermediate Biometry I
- Intermediate Biometry II
- International and Family Health Seminar
- Linear Models
- Statistical Methods with Missing Data
- Theory of Biostatistics I
- Theory of Biostatistics II

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- Statistics for Medical Research
- Stochastic Processes I
- Stochastic Processes II

At Other Institutions:

- Data Analysis (Graduate level)
- Linear Models (Graduate level)
- Regression Techniques (Undergraduate level)
- Stochastic Processes (Graduate level)
- Theoretical Statistics I & II (Graduate level)
- A variety of undergraduate courses in statistics, calculus and pre-calculus.

#### **INTERNAL SERVICE:**

1. Member of President's Faculty Advisory Council. University of Texas – Health Science Center at Houston, 2025-present.
2. Chair of Admission Committee, Department of Biostatistics and Data Science, University of Texas – Health Science Center at Houston, 2022-present.
3. Chair of Faculty Evaluation/Promotion and Mentoring Committee, Department of Biostatistics and Data Science, University of Texas – Health Science Center at Houston, 2017-2022.
4. Chair of Student Scholarship Review Committee, Department of Biostatistics and Data Science, University of Texas – Health Science Center at Houston, 2014-2023 (member 2023- current).
5. Chair of Biostatistics Teaching Position Search Committee, School of Public Health, University of Texas –Health Science Center at Houston, 2020. (member 2018-2019).
6. Member of Biostatistics Teaching Position Search Committee, School of Public Health, University of Texas –Health Science Center at Houston, 2021.
7. Member of Scholarship Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2021-present.
8. Chair of Biostatistics Chair Search Committee, School of Public Health, University of Texas –Health Science Center at Houston, 2015-2017.
9. Member of Regional/Associate Deans and Department Chairs Six-Year Review Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2015, 2016.

10. Chair of Biostatistics Two Faculty Positions (Survival Analysis and Bayesian Statistics) Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2014.
11. Chair of Biostatistics Teaching Faculty Position Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2013.
12. Member of Council of Education for Public Health Accreditation- UTSPH Reaccreditation Steering Committee, School of Public Health, University of Texas – Health Science Center at Health Science Center at Houston, 2010 - 2012.
13. Coordinator of Academic Program, Department of Biostatistics, School of Public Health, University of Texas – Health Science Center at Houston, 2010-2016.
14. Member of Academic Council, School of Public Health, University of Texas – Health Science Center at Houston, 2010-2016.
15. Chair, Curriculum Renovation Committee, Division of Biostatistics, School of Public Health, University of Texas – Health Science Center at Houston, 2009 - 2016.
16. Member of Biostatistics Division Director Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2008-2009.
17. Member of 4-Faculty Position Search Committee, Division of Biostatistics, School of Public Health, University of Texas – Health Science Center at Houston, 2008-present.
18. Member of 10-Faculty Position Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2009-2010.
19. Member of Faculty Council, School of Public Health, University of Texas – Health Science Center at Houston. 2004-2007.
20. Member of Awards Committee, University of Texas – Health Science Center at Houston. 2001-2003.
21. Chair of Biostatistics Division Director Search Committee, University of Texas – Health Science Center at Houston. 2003.
22. Member of Search Committee for Brownsville Satellite Program’s 10-12 Faculty positions, School of Public Health, University of Texas – University of Texas – Health Science Center at Houston. 2000-2001.
23. Financial Aids Committee, School of Public Health, University of Texas – University of Texas – Health Science Center at Houston. Chair: 1998- 2000 and Member: 1996-1998.

24. Member of Admission Committee, Division of Biostatistics, School of Public Health, University of Texas – University of Texas – Health Science Center at Houston. 1990-present.
25. Nominating Committee, University of Texas – University of Texas – Health Science Center at Houston. Chair: 1998-1999 and Member: 1997-1999.
26. Member of Multi-cultural Affairs Committee, University of Texas – University of Texas – Health Science Center at Houston. 1992-1993 and 1996-1998.
27. Member of Admission Committee (representing International and Family Health), School of Public Health, University of Texas – University of Texas – Health Science Center at Houston. 1993-1996.
28. Member of Peer Review Committee, School of Public Health, University of Texas – University of Texas – Health Science Center at Houston. 1995.

**PROFESSIONAL SERVICE:**

**List only Service since 2011**

- Grant Review for Belgium Netherlands Funding of International Trials 3 (BeNeFIT 3), 2022-2023, 2023-2024.
- Member of Program Committee, Joint Statistical Meetings, 2017.
- Program Chair, Section on Teaching Statistics in Health Sciences, American Statistical Association. 2016-2017.
- Associate Editor for Model Assisted Statistics and Applications 2012-present.
- Member of the Organizing Committee and Technical Program Committee for International Workshop on Security and Privacy Analytics. 2015 – 2018 (sponsored by National Science Foundation) and 2020-2025.
- Invited Panelist for Essential Data Analytics Knowledge for Cyber-Security Professionals and Students. 2015.
- Member of Organization Committee, Shine Academy Innovations in Health Science Education Conference, 2021 and 2022.
- Member of the editorial board Austin Biostatistics and Biometrics Journal. 2014-2021.
- Guest Editor for Model Assisted Statistics and Applications 2012.
- Grant Reviewer for Department of Defense Congressionally Directed Medical Research Programs (CDMRP) 2012- 2015 and 2018-2023.
- Member of Editorial Board for Journal of Addiction Research & Therapy, 2010-2016.
- Grant Reviewer for Environmental Protection Agency, 2017.
- Grant Reviewer for Alzheimer’s Association, 2014, 2015, 2016, 2017 and 2020.
- Grant Reviewer for National Science Foundation-Methodology, Measurement and Statistics Program, 2011, 2013.



- Grant Reviewer for Kentucky Science and Engineering Foundation, 2013.
- Grant Reviewer for National Medical Research Council, Government of Singapore, 2011 and 2013.
- Book proposal review (Survey Methodology, by Dr. Singh, Elsevier)
- Referee for Alzheimer's & Dementia.
- Referee for American Journal for Men's Health.
- Referee for Annals of Surgical Oncology.
- Referee for Biometrics.
- Referee for BMC Medical Research Methods.
- Referee for Computational Statistics and Data Analysis
- Referee for Electronic Journal of Statistics.
- Referee for Pain Medicine
- Referee for Hospital Practice.
- Referee for IET Control Theory and Application
- Referee for Infectious Disease Modeling
- Referee for International Journal of Epidemiology and Global Health
- Referee for Journal of Applied Statistics.
- Referee for Journal of Medical Economics.
- Referee for Probability and Statistics Letters.
- Referee for Paediatric and Perinatal Epidemiology.
- Referee for Statistics in Medicine.
- Referee for Statistical Methods in Medical Research.
- Referee for Technology in Society
- Referee for Transitional Cancer Research
- Referee for Value in Health.

#### **THESIS AND DISSERTATION SUPERVISION:**

##### **Doctoral Dissertation Supervisor:**

1. May, 2025, Hei Kit Chan, Ph.D.  
“Impact of HIV Infection on COVID-19 Disease Dynamics through Non-Homogeneous Continuous-Time Markov Model and Semi-Parametric Cox Proportional Hazard Model”.
2. May, 2024, Joonha Chang  
“Latent Classification of Multiple-model Non-homogeneous Continuous-time Markov Chains”.
3. August, 2023, Jacky Kuo, Ph.D.  
“Latent Classification Models for Multistate Data Following a CTMC”.
4. August, 2022, Esther Ngan, Ph.D.

- “Analysis of dynamic changes of stress levels in caregivers for Alzheimer’s using non-homogeneous continuous time Markov chain and semi-Markov model approaches”.
5. August, 2021, Zheng Xiang, Ph.D.  
“Modelling a longitudinal binary observation as a covariate in a linear regression and as a co-dependent variable of a longitudinal continuous outcome—a joint modeling approach with applications”
  6. May, 2020, Abigail Sedory, Ph.D.  
“Sample Size Calculations for Longitudinal Mediation Analysis With Continuous-time Markov Chain Variables”.
  7. May, 2020, Kusha Mohammadi, Ph.D.  
“A Partial Likelihood Approach to Longitudinal Data using a Continuous-Time Semi-Markov Model”.
  8. August, 2019, Ting-Yu Chen, Ph.D.  
“Patient-reported Outcomes for Survival Prediction and Dimension Reduction”.
  9. May 2019, Alokanda Ghosh, MD, Ph.D.  
“A Dynamic Competing Risk Model for Multi-type Recurrent Events with Dependent Termination”
  10. December 2017, M. Laura Rubin, Ph.D.  
“A Joint Logistic Regression and Markov Chain Model with Application in Predicting 6-Month Outcome after Severe Traumatic Brain Injury”  
(Co-Mentoring with Dr. Jose-Miguez Yamal)
  11. August 2016, Ho-Lan Peng, Ph.D.  
“Some Statistical Issues on Progression of Alzheimer’s Disease”.
  12. May 2016, Chih-Hsien Wu, Ph.D.  
“Analysis of Bivariate Longitudinal Discrete Data: A Joint Continuous-Time Markov Chain Approach”.
  13. May, 2015, Xiaoying Yu, Ph.D.  
“A transitional model of the longitudinal data analysis for the bivariate binary outcome with application on mother’s stress and child’s illness”.
  14. May, 2015, Roann Seay, Ph.D.  
“Using a Joint-Continuous Time Markov Chain Model to Represent the Trauma Patient’s ICU and Ventilator Experience”.
  15. May, 2014, Julia Benoit, Ph.D.

- “Analysis of longitudinal data using a three-state continuous time Markov model with misclassification”.
16. May, 2014, Jing Jiang, Ph.D.  
“A novel concept on incremental cost-effectiveness ratio censored cost data”.
  17. December, 2013, Junsheng Ma, Ph.D.  
“A Bayesian approach to longitudinal categorical data in a continuous time A Markov chain model”.
  18. August, 2012, Fu-Wen Liang, Ph.D.  
“Mixture modeling for joint analysis of survival, discrete, and continuous data”  
**Recipient of 2012 Young Investigator Award, given by Section of Statistics in Epidemiology, American Statistical Association.**
  19. August, 2011, Jang Yang, Ph.D.  
“Some issues on studies of mixed longitudinal design”.
  20. December, 2010, Shang-Ying Liang, Ph.D.  
“A novel method for evaluating an interaction effect of correlated continuous covariates in a linear model”.
  21. May, 2008, Kendra Mhoon, Ph.D.\*  
“A continuous-time Markov chain approach for trinomial outcome longitudinal data: an extension for multiple covariates”.
  22. May, 2008, Younghun Han, Ph.D.  
“Mathematical and empirical examinations of some epidemiological procedures”.
  23. August, 2007, Charles Minard, Ph.D.\*  
“Trends in Binary, Longitudinal Data with Application to Smoking Cessation Studies”.
  24. May, 2007, Hung-Wen Yeh, Ph.D.\*  
“Estimating parameters in Markov models for longitudinal studies with missing data or surrogate outcome”.
  25. May, 2007, Tsai Su-jau Yang, Ph.D.  
“Estimation of duration between two consecutive Tanner stages in human growth”.
  26. December, 2006, Doriel D. Ward, Ph.D.  
“Racial and ethnic disparities in diabetes mellitus and hypertension: influence of income and insurance status in a cross-sectional study of the United States”.

27. May, 2005, Nancy Wuan-Szu Wang, Ph.D.  
“Analysis of outliers for logistic regression based on predicted probability and Winsorized observations”.
28. May, 2005, Yen-Peng Li, Ph.D.\*  
“Longitudinal categorical data analysis: a continuous-time Markov chain approach”.
29. May, 2005, Hyung Woo Kim, Ph.D.  
“Bayesian dual threshold phase II design with Dirichlet process”.
30. August, 2004, Lei Lei, Ph.D.  
“Analyze longitudinal outcome data as a transformation of Poisson process”.
31. December, 2003, Jonathan Mahnken, Ph.D.\*  
“Left, right, and interval bivariate censored data: evaluating screening mammography efficacy in the presence of lead-time bias, length bias and over-detection”.
32. December, 2003, Michelle Detry, Ph.D.\*  
“A logistic regression model with misclassification in the outcome variable and categorical covariate”.
33. May, 2003, Yong Mun, Ph.D.\*  
“A homogeneous continuous-time Markov chain approach to repeated categorical measurements: an application to laboratory shift analysis in clinical trials”.
34. May, 2003, Tony Lam, Ph.D.  
“Power and sample size for community intervention trial with binary outcome”.
35. December, 2000, Tara Maddala, Ph.D.  
“A parametric model for analyzing recurrent nonfatal events in the presence of fatal events”.
36. August, 2000, Arlene Correa, Ph.D.  
“Modeling a health promotion campaign Process”.
37. May, 2000, Dung-Tsa Chen, Ph.D.\*  
“Mixed effects models in negative exponential curve”.
38. August, 1999, Chung-Chi Chang, Ph.D.\*  
“Analysis of recurrent failure time: a time-dependent Yule process approach”.
39. May, 1999, Michael Johnson, Ph.D.  
“A comparison of Markov and generalized linear models of hospital mortality”.

40. May, 1999, Dorothy Stowers, Ph.D.  
“Design and implementation of a multicriteria medical decision support system for diagnosis and treatment”.
41. August, 1995, Hai-An Hsu, Ph.D.  
“Logistic regression with incompletely observed binary covariates”.
42. May, 1993, Rabih Elsouki, Ph.D.\*  
“Modeling the survival of T-cell lymphocytes using compound branching processes”.

**Master Thesis Supervisor:**

1. August, 2025, Anita Aimufia, M.S.  
“The influence of adolescent incarceration on cognitive aging”
2. August, 2008, Fu-Wen Liang, M.S.  
“The impact of functional impairment on the survival of patients with Alzheimer's disease”.
3. May, 2006, Ashwini Shewade, M.S.  
“Use of expectation and maximization (EM) algorithm to estimate the repeat mammography prevalence rate of non-respondents”.
4. May, 2003, Binu Lal, M.S.  
“A simulation study on sample size and power of the Breslow-Day test”.
5. May, 2003, Tso-Yu Liao, M.S.  
“Development and validation of comorbidity indexes for coronary heart disease patients”.
6. December 2003, Alambardar A. Khuwaja, MPH  
“Prevalence and comorbidities associated with colorectal cancer-a large medical organization case-control study”.
7. December, 1998, Anna Frolov, M.S.  
“Robust Adjustment to orthogonal regression estimators”.
8. December, 1996, Linda DeFord, M.S.  
“Assessment of interrater agreement using a binomial based statistic: K(BIN)”
9. August, 1992, Michael L. Johnson, M.S.

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**“Computer simulation of stochastic Model of smoking status and lung cancer incidence”. Recipient of 1993 Statistics Section Award for Best Contributed Student Paper, given by American Public Health Association Conference.**

10. December, 1993, Tsai Su-jau Yang, M.S.

“Stochastic model of transmission of Influenza”.