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:

Degree	Field	Year	Institution
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. 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* (in press, published online) https://doi.org/10.1002/sim.9930 **(Corresponding author).**

2. 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).**

3. 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. **(Corresponding author).**

4. 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

5. 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

6. 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

7. 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

8. 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

9. 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

10. 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

11. 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

12. 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

13. 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

14. 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.

15. 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

16. 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.

17. 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

18. 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

19. 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

20. 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

21. 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

22. 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

23. 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.

24. Karpes Matusevich, 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

25. Karpes Matusevich, 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.

26. 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.

27. Benoit, JS, Chan W, Piller W, Doody R. (2020) "Association Between Pre-progression Rate and Alzheimer's Disease Stage Changes with Moderate Stage Subject to Misclassification". *American Journal of Alzheimer's Disease and Other Dementias*. Vol 35: 1-8. https://doi.org/10.1177/1533317520918719.

28. 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.

29. 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.

30. 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)**

31. 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*. doi:10.1001/jamanetworkopen.2020.0100

32. 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

33. 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

34. 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.

35. 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)**

36. 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)**

37. 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.

38. Rubin, M., Yamal, J., **Chan, W.,** and Robertson, C. (2019) "Prognosis of six-month Glasgow uutcome 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

39. 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. PMID: 31556823

40. 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 forroutine cardiovascular magnetic resonance: a multicenter study" *J. of Cardiovascular Magnetic Resonance*. 21:4. DOI:10.1186/s12968-018-0517-0

41. 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.

42. 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

43. Rammah, A., Whitworth, K. W., Han, I., **Chan, W**. and Symanski, E. (2019). "$PM_{2.5}$ 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.

44. 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. PMID: 30975581.

45. 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.

46. Lairson, D., Wu, C., **Chan, W**., Fu, S., Hoffman, K. and Pettaway, C. (2019) "Mean Treatment Cost of Incident Cases of Penile Cancer for Privately Insured Patients in the United States" *Urologic Oncology: Seminars and Original Investigations*. 37: 294.e17-e25.

47. 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. PMID: 30931339.

48. 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.

49. 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.

50. 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.

51. Lee, S., Begley, E., Morgan, R. **Chan, W**., and Kim, S. (2018) "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: 463-471.

52. 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.

53. Koslovsky, M., Swartz, M., Leon-Novelo, L., **Chan, W**., and Wilkinson, A. (2018) "Using the EM algorithm for Bayesian variable selection in logistic regression models with related covariates" *J. of Statistical Computation and Simulation*. 88: 575-596.

54. Ma, J., **Chan, W.,** and Tilley, B. (2018) "Continuous time Markov chain approaches for analyzing transtheoretical models of health behavioral change: a case study and comparison of model estimations" *Statistical Methods in Medical Research.* 27: 593-607. PMID: 27048681, PMCID: PMC5329136. **(Corresponding author.)**

55. Eaglehouse, Y., Shao, S., **Chan, W**., Brown, D., Manjelievskaia, J., Shriver, C., and Zhu, K. (2018) "The continuum of breast cancer care and outcomes in the U.S. military health system: an analysis by benefit type and care source" J. of Cancer Survivorship. 12:407-416. PMID: 29455447.

56. Koslovsky, M, Swartz , M., **Chan, W.,** Leon-Novelo , L., Wilkinson, A., Kendzor , D., and Businelle, M. (2018) "Bayesian variable selection for multistate Markov models with interval-censored data in an ecological momentary assessment study of smoking cessation". *Biometrics*. 74: 636-644. PMID: 29023626

57. Patel, A., **Chan, W.,** Aparasu, R., Ochoa-Perez, M., Sherer, J., Medhekar, R., and Chen, H. (2017) "Effect of psychopharmacotherapy on body mass index among children and adolescents with bipolar disorders". *J. of Child and Adolescent Psychopharmacology* 27:349-358. PMID: 28422528.

58. Pathak, S., Ganduglia, C., Awad, S., **Chan, W.,** Swint, J. and Morgan, J. (2017) "What Factors are Associated with 90-day Episode-of-Care Payments for Younger patients with Total Joint Arthroplasty?" Clinical Orthopaedics and Related Research. 475: 2808-2818. PMID: 28707110.

59. Chen, Y., Lairson, D., **Chan, W.,** Huo, J. and Du, X. (2017) "Cost-Effectiveness of Novel Agents in Medicare Patients with Multiple Myeloma: Findings from a U.S. Payer's Perspective". *J. of Managed Care & Specialty Pharmacy*. 23:831-843. PMID: 28737990.

60. Chen, Y., Lairson, D., **Chan, W.,** Huo, J. and Du, X. (2017) "Improved Survival in Medicare Patients with Multiple Myeloma: Findings from a Large Nationwide and Population-based Cohort". *Medical Oncology*. 34(9):153. doi: 10.1007/s12032-017-1001-7. PMID: 28776319.

61. El-Hattab, A., Dai, H., Almannai, M., Wang, J., Faqeih, E., Asmari, A., Saleh, M., Elamin, M., Alfadhel, M., Alkuraya, F., Hashem, M., Aldosary, M., Almass, R., Almutairi, F., Alsagob, M., Al-Owain, M., Al-Sharfa, S., Al-Hassnan, Z., Al Rahbeeni, Z., Al-Muhaizea, M., Makhseed, N., Foskett, G., Stevenson, D., Gomez-Ospina, N., Lee, C., Boles, R., Schrier Vergano, S., Wortmann, S., Sperl, W., Opladen, T., Hoffmann, G., Hempel, M., Prokisch, H., Alhaddad, B., Mayr, J., **Chan, W.,** Kaya, M., Wong, L. (2017) "Molecular and clinical spectra of FBXL4 deficiency" *Human Mutation.* doi: 10.1002/humu.23341. [Epub ahead of print] PMID: 28940506

62. Lairson, D., Wu, C., **Chan, W.,** Dahlstrom, K., Tam, S. and Sturgis, E. (2017) "Medical Care Cost of Oropharyngeal Cancer among Texas Patients with Commercial Insurance" *Cancer Epidemiology, Biomarkers & Prevention,* 26:1-7.

63. Lairson, D. R., Fu, S., **Chan, W.,** Xu, L., Shelal, Z., & Ramondetta, L. (2017). Mean direct medical care costs associated with cervical cancer for commercially insured patients in Texas. *Gynecologic Oncology*, *145*(1), 108-113.

64. Weis, K., Lederman, R., Walker, K., **Chan, W.** (2017) "Mentors Offering Maternal Support Reduces Prenatal, Pregnancy-Specific Anxiety in a Sample of Military Women" 46: 669-685. *Journal of Obstetric, Gynecologic & Neonatal Nursing* PMID: 28751158.

65. Rubin, M., **Chan, W.,** Yamal, J. and Robertson, C. (2017) "A joint logistic regression and covariate-adjusted continuous time Markov chain model" *Statistics in Medicine*. 36: 4570-4582. PMID: 28695582. PMCID: PMC5696048. **(Corresponding author)**

66. Patel, A., Medhekar, R., Ochoa-Perez, M., Aparasu, R., **Chan, W.,** Sherer, J., Alonzo, J., and Chen, H. (2017) "Care providing and prescribing practices of physicians treating children and adolescents with ADHD". *Psychiatric Services* 68:681-688.

67. Nguyen, P., Kamran, H., Nasir, S., **Chan, W.,** Shah, T., Deswal, A., and Bozkurt, B. (2017) "Comparison of Frequency of Cardiovascular Events and Mortality in Patients With Heart Failure Using versus Not Using Cocaine" *American Journal of Cardiology* 119:2030-2034. PMID: 28456314

68. Li, K, **Chan, W.,** Doody, R., Quinn, J. and Luo, S. (2017) "Prediction of conversion to Alzheimer's disease with longitudinal measures and time-to-event data". *Journal of Alzheimer's Disease* 58: 361-371.

69. Tsai, I., Graves, D., **Chan, W.**, Darkoh, C., Lee, M., and Pompeii, L. (2017) "Environmental barriers and social participation in individuals with spinal cord injury" *Rehabilitation Psychology*, Vol 62(1), 36-44.

70. Benoit J., **Chan, W.,** Luo, S., Yeh, H. and Doody, R. (2016) "A hidden Markov model approach to analyze longitudinal ternary outcomes when some observed states are possibly misclassified". *Statistics in Medicine*. 35: 1549-1557. DOI: 10.1002/sim.6861. PMCID: PMC4821697. **(Corresponding author)**

71. Ma, J., Yu, X., Symanski, E., Doody, R. and **Chan, W.** (2016) "A Bayesian approach in estimating transition probabilities of a discrete-time Markov chain for ignorable intermittent missing data". *Communications in Statistics-Simulation and Computation*. 45:2598-2616. **(Corresponding author)**

72. Luo, S., **Chan, W.,** Detry, M., Massman, P., and Doody, R. (2016) "Binomial regression with a misclassified covariate and outcome". *Statistical Methods in Medical Research.* 25: 101-117. PMID: 22421539. PMCID: PMC3883897.

73. Liang, F., **Chan, W.**, Chen, P., Zimmerman, C., Waring, S., and Doody, R. (2016) "Cognitively-Related Basic Activities of Daily Living Impairment Greatly Increases the Risk of Death in Alzheimers Disease". PLoS ONE 11(8): e0160671. doi:10.1371/journal.pone.0160671. **(Corresponding author)**

74. Lairson, D., Misra, S., Huang, D., **Chan, W.,** Vernon, S., and Fernandez, M. (2016) "Cost effectiveness of lay health worker delivered interventions to promote colorectal cancer screening: a randomized trial". J. of Healthcare Communications. 1:7. DOI: 10.4172/2472-1654.10006

75. Panchal, J., Lairson, D., **Chan, W.**, and Du, X. (2016) "Geographic Variation in Oxaliplatin Chemotherapy and Survival in Patients with Colon Cancer". *American Journal of Therapeutics.* (23:e720-e729). PMID: 24368611.

76. Nghiem, V., Davies, K., **Chan, W.**, Mulla, Z., Cantor, S. (2016) "Disparities in cervical cancer survival among Asian-American women". *Annals of Epidemiology*. 26: 28-35. PMID: 26552330.

77. Ma, T., Paniagua, D., Denktas, A., Jneid, H., Kar, B., **Chan, W.**, Bozkurt, B. (2016) "Usefulness of the sum of pulmonary capillary wedge pressure and right atrial pressure as a congestion index that prognosticates heart failure survival" *American J. of Cardiology*. PMID:27474338. doi: 10.1016/j.amjcard.2016.06.040.

78. Huo, J., Lairson, D., Du, X., **Chan, W.**, Jiang, J., Buchholz, T. and Guadagnolo, B. (2016) "Hospital case volume is associated with improved survival for patients with

metastatic melanoma". *American Journal of Clinical Oncology*. (39:491-496)
PMID: 24755661.

79. Swartz, M., Base-Engquist, K., Markham, C., Lyons, E., Cox, M., Chandra, J., Ater, J., Askins, M. Scheurer, M., Lupo, P., Hill, R., Murray, J., **Chan, W.** and Swank., P. (2016) "Psychometric analysis of the three-factor eating questionnaire-R18V2 in adolescent and young adult-aged central nervous system tumor survivors". *J. of Adolescent and Young Adult Oncology.* 5:278-285.

80. Poonawalla, I**.,** Piller, L., Lairson, D., **Chan, W.**, and Du, X. (2016) "Impact of Hematopoietic Growth Factors on Blood Transfusion Needs, Incidence of Neutropenia and Overall Survival among Elderly Advanced Ovarian Cancer Patients Treated With Chemotherapy". *International Journal of Gynecological Cancer* 26:95-103.

81. Tran, D., Gay, I., Du, X., Fu, X., Bebermeyer, R., Neumann, A., Streckfus, C., **Chan, W.**, Walji, M. (2016) "Partial-mouth periodontal examination protocol for estimating periodontitis extent and severity in a United States population". *Clinical and Experimental Dental Research. 2:* 73-39. (doi: 10.1002/cre2.24). PMID: 29744152

82. Benoit, J., **Chan, W.** and Doody, R. (2015) "Joint coverage probability in a simulation study on continuous-time Markov chain parameter estimation". *J. of Applied Statistics.* 42:2531-2538. **(Corresponding author)**

83. Ma, J., **Chan, W.,** Tsai, C., Xiong, M. and Tilley, B. (2015) "Analyze Trans-theoretical model of health behavioral changes in a nutrition intervention study- A continuous time Markov chain model with Bayesian approach". *Statistics in Medicine.* 34: 3577-3589. PMID: 26123093 PMCID: PMC4626363. **(Corresponding author)**

84. Le, P., Griffiths, U., Anh, D., Franzini, L., **Chan, W.** and Swint, M. (2015) "Cost-effectiveness of Haemophilus influenzae type b vaccine in Vietnam" *Vaccine.* 33: 4639-4646. PMID: 26044493 PMCID: PMC4547866

85. Pavlik, V., **Chan, W.**, Hyman, D., Feldman, P., Ogedegbe, G., Schwartz, J., McDonald, M., Einhorn, P. and Tobin, J. (2015) "Designing and evaluating health systems level hypertension control interventions for African-Americans: lessons from a pooled analysis of three cluster randomized trials" *Curr. Hypertens. Rev.*, 11: 123-131. PMID: 25808682, PMCID: PMC4657555

86. Doody, R., Demirovic, J., Ballantyne, C., **Chan, W**., Barber, R., Pavlik, V. and the Texas Alzheimer's Research and Care Consortium (2015) "Lipoprotein-associated phospholipase A$_2$, homocysteine and Alzheimer's disease". *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring.* 1: 464-471.

87. Swartz, M., Cai, Y., **Chan, W.** , Symanski, E., Mitchell, L., Danysh, H., Langlois, P., Lupo, P. (2015) "Air toxics and birth defects: a Bayesian hierarchical approach to evaluate multiple pollutants and spina bifida". *Environmental Health*. 14:16 doi:10.1186/1476-069X-14-16.

88. Abbass, I., , Krause, T., Virani, S., Swint, J., **Chan, W.**, and Franzini, L. (2015) Revisiting the economic efficiencies of observation units. *Managed Care*. 24: 46-52. PMID: 25939196.

89. Fernandez, M. , Savas, L., Carmack, C., **Chan, W.**, Lairson, D., Byrd, T., Wilson, K., Arvey, S., Krasny, S., Vernon, S. (2015) "A randomized controlled trial of two interventions to increase colorectal cancer screening among Hispanics on the Texas-Mexico border" *Cancer Causes Control*. 26: 1-10. PMID: 25466604.

90. Gautam, S., Franzini, L., Mikhail, O., **Chan, W.** and Turner B. (2015) "Longitudinal Analysis of Opioid Analgesic Dose and Diabetes Quality of Care Measures" *Pain Medicine*. 16: 2134-2141.

91. Zhang, Y., Franzini, L., **Chan, W.**, Xu, H., and Du, X. (2015) "Effects of Health Insurance on Tumor Stage, Treatment, and Survival in Large Cohorts of Patients with Breast and Colorectal Cancer". *J. of Health Care for the Poor and Underserved*. 26: 1336-1358. PMID: 26548682.

92. Lairson, D., Parikh, R., Cormier, J., **Chan, W.**, and Du, X. (2015) "Cost-Utility Analysis of Chemotherapy and Targeted Therapy for Advanced Non-Small Cell Lung Cancer in a Large Retrospective Cohort of Elderly Patients" *American J. of Pharmacy Benefits*. 7: 271-279.

93. He, W., Zhao, H., **Chan, W.**, Lopez, D., Shroff, R., and Giordano (2015) "Underuse of surgical resection among elderly patients with early-stage pancreatic cancer". *Surgery*. 158: 1226-1234. PMID: 26138347.

94. Poonawalla, I., Lairson, D., **Chan, W.**, Piller, L. and Du, X. (2015) "Cost-effectiveness of Neoadjuvant chemotherapy versus primary surgery in elderly patients with advanced overian cancer". *Value in Health*. 18:387-395.

95. Liu, Z., Zhang, Y., Franzini, L., Cormier, J, **Chan, W.**, Xu, H and Du, X. (2015) "Trends and variations in breast and colorectal cancer incidence from 1995 to 2011: A comparative study between the Texas Cancer Registry and National Cancer Institute's Surveillance, Epidemiology and End Results Data". *International Journal of Oncology*. 46:1819-1826. PMCID: PMC4356494

96. Huo, J., Du, X., Lairson D., **Chan, W.**, Jiang, J., Buchholz, T, and Guadagnolo, B. (2015) "Utilization of surgery, chemotherapy, radiation therapy, and hospice at the

end of life for patients diagnosed with metastatic melanoma". *American Journal of Clinical Oncology*. 38(3):235-41. doi: 10.1097/COC.0b013e31829378f9. PMCID: PMC3796177. PMID: 23648436

97. Míguez-Burbano, M., Rodriguez, A., Vargas, M., Tantalean, M., Valiathan, R. and **Chan, W.** (2014) "Are Serotonin Alterations the Link between Thrombocytopenia and Poor Immune Status among HIV Infected Individuals?". *J AIDS Clinical Research* 5:277. doi: 10.4172/2155-6113.1000277.

98. Russell, H., Okcu, M., Kamdar, K., Shah, M., Kim, E., Swint, J. **Chan, W**., Du, X. Franzini, L. and Ho, V. (2014) "Algorithm for analysis of administrative pediatric cancer hospitalization data according to indication for admission" BMC Medical Informatics and Decision Making. 14:88 doi:10.1186/1472-6947-14-88

99. Wendt, JK, Symanski E, Stock TH, **Chan, W**, Du XL. (2014) Association of ambient air pollution with newly-diagnosed asthma among Medicaid-enrolled children in a metropolitan area, *Environmental Research,* 131:50-58.

100. Abbass, I., Virani, S., Swint, J., **Chan, W**., and Franzini, L. (2014) "One Year Costs and Outcomes Associated with Using Observation Services in Triaging Patients with Non-specific Chest Pain" *Clinical Cardiology*. 10:591-596. PMID: 25113151

101. Kowalkowski, M., Mims, M., Day, R., Du, X., **Chan, W**., and Chiao, E. (2014) "Cumulative HIV viremia and non-AIDS-defining malignancies among a sample of HIV-infected male veterans" *J of Acquired Immune Deficiency Syndromes*. 67:204-211.

102. Safdar, Z., Tamez, E., **Chan, W**., Arya, B., Ge, Y., Deswal, A., Bozkurt, B., Frost, A. and Entman, M. (2014) "Circulating collagen biomarkers as indicators of disease severity in pulmonary arterial hypertension" *JACC- Heart Failure*. 2:412-421. PMID: 25023820. PMCID: PMC4180669.

103. Kowalkowski, M., Day, R., Du, X., **Chan, W**., and Chiao, E. (2014) "Longer duration of combination antiretroviral therapy reduces the risk of Hodgkin lymphoma: A cohort study of HIV-infected male veterans". *Cancer Epidemiology*. 38: 386-392. PMID: 24947588. PMCID: PMC4447432.

104. Tran, D., Gay, I., Du, X., Fu, Y., Bebermeyer, R., Neumann, A., Streckfus, C., **Chan, W**., and Walji, M. (2014) "Assessment of Partial-Mouth Periodontal Examination Protocols for Periodontitis Surveillance" *Journal of Clinical Periodontology*. 41:846-852. PMID: 25041094

105. Le, P., Griffiths, U., Anh, D., Franzini, L., **Chan, W.**, Ha, P., and Swint, M. (2014) "The economic burden of pneumonia and meningitis among children less than five

years old in Hanoi, Vietnam" *Tropical Medicine & International Health* 19:1321-1327.

106. Lairson, D., Parikh, P., Cormier, J. **Chan, W.**, and Du, X. (2014) "Cost-utility analysis of chemotherapy regimens in elderly patients with stage III colon cancer". *Pharmaco Economics*. 32:1005-1013. PMID:24920195

107. Hall, J., Wiechmann, A., Johnson, L., Edwards, M., Barber, R., Cunningham, R., Singh, M., O'Bryant, S., Doody, R., Rountree, S., Pavlik, V., **Chan, W.**, Massman, P., Darby, E., Evans, T., William,s B., Schrimsher, G., Dentino, A., Orozco, R., Fairchild, T., Knebl, J., Mains, D., Alvarez, L., Adams, P., Rosenberg, R., Weiner, M., Quiceno, M., Reisch, J., Huebinger, R., Xiao, G., Svetlik, D., Werry, A., Smith, J., Royall, D., Palmer, R., Polk, M. (2014). "Total cholesterol and neuropsychiatric symptoms in Alzheimer's disease: The impact of total cholesterol level and gender". *Dementia and Geriatric Cognitive Disorders*. *38*: 300-309. 10.1159/000361043

108. Meininger, J., Gallagher, M., Eissa, M., Nguyen, T. and **Chan, W**. (2014) "Sleep duration and its association with ambulatory blood pressure in a school-based, diverse sample of adolescents". *American Journal of Hypertension.* 7:948-955. PMID: 24487981 PMCID: PMC4118569

109. Huo, J., Lairson, D., Du, X. **Chan, W**., Jiang, J., Buchholz, T. and Guadagnolo, B. (2014) "Survival and cost-effectiveness of hospice care for metastatic melanoma patients". *American Journal of Manage Care 20:366-373.*

110. Khalid, U., Ather, S.,Bavishi, C., **Chan, W**, Loehr, L., Wruck, L., Rosamond, W., Chang, P., Coresh, J., Virani, .Nambi, V., Bozkurt, B, Ballantyne, C. and Deswal, A. (2014) "Pre-Morbid body mass index and mortality after incident heart failure: The ARIC study" *J. of* American College of Cardiology. 64(25):2743-2749.

111. Luu, H., Amirian, E., Beasley, R., Pillar, L., **Chan, W,** and Scheurer, M. (2013) "Clinical implications of the ervical papanicolaou test results in the management of anal warts in HIV-infected women". PLoS ONE 8(11): e81751. doi:10.1371 PMID: 24312348.

112. Hall, M, Robinson, H., **Chan, W,** and Sevick-Muraca, E. (2013) "Detection of lymphangiogenesis by near-infrared fluorescence imaging and responses to VEGF-C during healing in a mouse full-dermis thickness wound model". *Wound Repair and Regeneration.* 21: 604-615.

113. Panchal, J., Lairson, D., **Chan, W.**, and Du, X. (2013) "Geographic variation and sociodemographic disparity in the use of oxaliplatin-containing chemotherapy in patients with stage III colon cancer." Clinical Colorectal Cancer. 12:113-21. PMID: 23137529

114. Tran, D., Gay, I., Du, X., Fu, Y., Bebermeyer, R., Neumann, A., Streckfus, C., **Chan, W**., and Walji, M. (2013) "Assessing Periodontitis in Populations: A Systematic Review of the Validity of Partial Mouth Examination Protocols" *Journal of Clinical Periodontology*. 40:1064-1071. PMID: 24192071

115. Khodr, Z., Lupo, P., Canfield, M., Chan, W., Cai, Y., Mitchell, L.. (2013) "Hispanic ethnicity and acculturation, maternal age and the risk of gastroschisis in the National Birth Defects Prevention Study" *Birth Defects Research Part A: Clinical and Molecular Teratology*, 97: 538-545.

116. Ather, S., Hira, R., Shenoy, M., Fatemi, O., Deswal, A., Aguilar, D., Ramasubbu, K. , Bolos, M., **Chan, W**., and Bozkurt, B. (2013) "Recurrent Low-Level Troponin I Elevation is a Worse Prognostic Indicator than Occasional Injury Pattern in Patients Hospitalized with Heart Failure". *International Journal of Cardiology*. 166:394-398. PMID: 22119115.

117. Ather, S., Bavishi, C., McCauley, M., Dhaliwal, A., Deswal, A., Johnson, S., Chan, W., Aguilar, D., Pritchett, A., Ramasubbu, K., Wehrens, X., Bozkurt, B. (2013) "Worsening renal function is not associated with response to treatment in acute heart failure" *Int.J.Cardiol*., 167: 1912-1917.

118. Kwon, S., Agollach, G., Wu, G., **Chan, W**., and Sevick-Muraca, E. (2013) "Direct visualization of changes of lymphatic function and drainage pathways in lymph node metastasis of B16F10 melanoma using near-infrared fluorescence imaging". *Biomedical Optics Express* 4(6): 967–977. PMCID: PMC3675875.

119. Zhang, J., Zhou, S., Xiang, X., Bautista, M., Niccum, B., Dickinson, G., Tan, I., **Chan, W**., Sevick-Muraca, E. and Rasmussen, J. (2012) "Automated analysis of investigational near-infrared fluorescence lymphatic imaging in humans". *Biomedical Optics Express* 3: 1713-1723.

120. Kwon, S., Agollach, G., **Chan, W**., and Sevick-Muraca, E. (2012) "Altered lymphatic function and architecture in salt-induced hypertension assessed by near-infrared fluorescence imaging". *J. of Biomedical Optics Express*. 17:080504-1, DOI:10.1117/1.JBO.17.8.080504. PMID: 23224155.

121. Ather, S., **Chan, W**., Bozkurt, B, , Aguilar, D., Ramasubbu, K. , Zachariah, A., Wehrens, X. and Deswal, A. (2012) "Impact of Non-Cardiac Comorbidities on Morbidity and Mortality in a Predominantly Male Population with Heart Failure and Preserved versus Reduced Ejection Fraction". *Journal of the American College of Cardiology* 59: 998-1005.

122. Ramasubbu, K., Deswal, A, **Chan, W**., Aguilar, D. and Bozkurt, B. (2012) "Echocardiographic Changes during Treatment of Acute Decompensated Heart

Failure: Insights from the ESCAPE Trial". *Journal of Cardiac Failure*. 18: 792-798. PMID: 23040115.

123. Bozkurt, B., Bolos, M., Deswal, A., Ather, S., **Chan, W**., Mann, D., and Carabello, B. (2012) "New insights into mechanisms of action of carvedilol treatment in chronic heart failure patients- a matter of time for contractility". *Journal of Cardiac Failure*. 18: 183-193. PMID: 22385938.

124. Hosain, M., Du, X., Sanderson, M. **Chan, W,** and Strom, S. (2012) "Racial/ethnic differences in treatment discussed, chosen and received for prostate cancer in a tri-ethnic population" *American Journal of Men's health*. 6:249-257. PMID: 22419652.

125. Luu, H., Amirian, E., Beasley, R., Pillar, L., **Chan, W,** and Scheurer, M. (2012) "Association between smoking and size of anal warts in HIV-infected women" *Journal of STD and AIDSs*. 23:792-798.

126. Hardy, D.; **Chan,W**.; Liu, C. ; Cormier, J. ; Xia, R.; Bruera, E.; Du, X. (2012,) "Racial disparities in length of stay in hospice care by tumor stage in a large elderly cohort with non-small cell lung cancer". *Palliative Medicine*. 26, 61-71.

127. Viola, G., Awan, L., Ostrosky-Zeichner L , **Chan, W,** and Darouiche, R. (2012) "Infections of Cardiac Implantable Electronic Devices: A Retrospective Multicenter Observational Study Medicine". *Medicine*. 91:123-130. PMID: 22543626.

128. Hyman, D., Pavlik, V., Greisinger, A., **Chan, W,** Bayona, J., Mansyur C., Simms, V. and Pool, J. (2012) "Effect of a Physician Uncertainty Reduction Intervention on Blood Pressure in Uncontrolled Hypertensives—A cluster randomized trial" *Journal of General Internal Medicine*. 27:413-419. PMID: 22033742.

129. Luu, H., Amirian, E., **Chan, W,** Beasley, R., Pillar, L. and Scheurer, M. (2012) "CD41 Cell Count and HIV Load as Predictors of Size of Anal Warts Over Time in HIV-Infected Women" *Journal of Infectious Diseases*. 205: 578-585.

130. Rountree, S, **Chan, W**, Pavlik, V., Darby, E, Doody, R. (2012) Factors that influence survival in a probable Alzheimer's disease (AD) cohort. *Alzheimer's Research & Therapy,* 4:16 DOI: 10.1186/alzrt119.

131. Hall, M., Kwon, S., Robinson, H., Lachance, P., Azhdarinia, A., Ranganathan, R., Roger, P. **Chan, W.**, Sevick-Muraca, E. (2012) "Imaging prostate cancer lymph node metastases with a multimodality contrast agent" *The Prostate*. 72:129-146. PMID: 21538422.

132. Yeh, H., **Chan, W,** and Symanski, E. (2012) "Intermittent Missing Observations in Discrete-Time Hidden Markov Models". *Communications in Statistics-Simulation and Computation* 41:167-181. **(Corresponding author)**

133. Minard, C., **Chan, W.**, Wetter, D. and Etzel, C. (2012) "Trends in smoking cessation: A Markov model approach". *Journal of Applied Statistics*. 39: 113-127. **(Corresponding author)**

134. Hu, C., **Chan, W.,** Delclos, G. and Du, X. (2012) "Adjuvant Chemotherapy and Risk of Gastrointestinal, Hematological and Cardiac Toxicities for Stage III Colon Cancer among Elderly Patients". *American Journal of Clinical Oncology*. 35:228-236. PMID: 21383605.

135. Hu, C., Delclos, G., **Chan, W.** and Du, X. (2011) "Post-Treatment Surveillance in a Large Cohort of Colon Cancer Patients". *The American Journal of Managed Care*. 17:329-336.

136. Misra, S., Lairson, D., **Chan, W.**, Chang, Y., Bartholomew, L., Greisinger, A., McQueen, A. and Vernon, S. (2011) "Cost-effectiveness of interventions to promote mammography screening for colorectal cancer: a randomized trial" *Journal of Prevention Medicine and Public Health*. 44:101-110. PMID: 21617335.

137. Hosain, M., Sanderson, M., Du, X., **Chan, W** and Strom, S. (2011) "Racial/ethnic differences in predictors of PSA Screening in a tri-ethnic population". *Central European J. of Public Health*. 19:30-34.

138. Hardy, D., **Chan, W.**, Liu, C., Cormier, J., Xia, R., Bruera, E. , and Du, X. (2011) "Racial disparities in the use of hospice services according to geographic residence and socioeconomic status in an elderly cohort with non-small cell lung cancer". *Cancer*. 117:1506-1515. PMID 21061366

139. Aguilar, D., **Chan, W.**, Bozkurt, B., Ramasubbu, K. and Deswal, K. (2011) "Metformin Use and Mortality in Ambulatory Patients with Diabetes and Heart Failure" *Circulation-Heart Failure* 4:53-58.

140. Ather, S., **Chan, W.**, Chillar, A., Aguilar, D., Pritchett, A. , Ramasubbu, K. , Wehrens, X., Deswal, A. and Bozkurt, B. (2011) "Association of Systolic Blood Pressure with Mortality in Patients with Heart Failure with Reduced Ejection Fraction: A Complex Relationship" *American Heart Journal.* 161: 567-573.

141. Vernon, S., Bartholomew, L., McQueen, A., Bettencourt, Greisinger, A., Coan, S., Lairson, D., **Chan, W.**, Hawley, S., Myers, R., (2011) "A Randomized Controlled Trial of a Tailored Interactive Computer-Delivered Intervention to Promote Colorectal Cancer Screening: Sometimes More is Just the Same". *Annals of Behavioral Medicine*. 41:284-299.

142. Lairson, D., **Chan, W.**, Chang, Y., del Junco, D. and Vernon, S. (2011) "Cost-effectiveness of targeted versus tailored interventions to promote mammography screening among women military veterans in the United States" *Evaluation and Program Planning*. 43:97-104.

143. Hu, C., Delclos G, **Chan W**, Du X. (2011) "Assessing the Initiation and Completion of Adjuvant Chemotherapy in a Large Nationwide and Population-Based Cohort of Elderly Patients with Stage III Colon Cancer". Medical Oncology. 28:1062-1074.

144. Lin, Y., Lairson, D., **Chan, W.**, Du, X., Leung, K., Kennedy-Nasser, A., Martinez, C., Gottschalk, C. Bollard,C.,Heslop, H., Brenner, M., Krance, R. (2011) "Children with Acute Leukemia: A Comparison of Outcomes from Allogeneic Blood Stem Cell and Bone Marrow Transplantation" Pediatric Blood & Cancer 56:143-151.

145. Tan, I., Maus, E., Rasmussen, J., Marshall, M., Admas, K., Fife, C., Smith, L., **Chan, W.**, Sevick-Muraca, E. (2011) "Assessment of lymphatic contractile function after manual lymphatic drainage using near-infrared fluorescence imaging" *The Prostate*. 92:756-764.

146. Chang, Y., Lairson, D., **Chan, W**, Lu, S. and Aoki, N. (2011) "Cost-effectiveness of screening for hepatocellular carcinoma among subjects at different levels of risk" *Journal of Evaluation in Clinical Practice,* 17: 261-267.

147. Chen, L., Chen, D., and **Chan, W** (2010) "Distribution-based p value for the outlier sum in differential gene expression analysis". *Biometrika* 97:246-253.

148. Lupo, P., Symanski, E., Waller, K., **Chan, W**, Canfield, M., Langlois, P., Mitchell, L., and The National Birth Defects Prevention Study (2010) "Polytomous Logistic Regression as a Tool for Exploring Heterogeneity across Birth Defect Subtypes: An Example Using Anencephaly and Spina Bifida" Birth Defects Research Part A: Clinical and Molecular Teratology. 8:701-705.

149. Lupo, P., Symanski, E., Waller, D., **Chan, W.**, Langlois, P., Mark A. Canfield, M. and Mitchell, L. (2010) "Maternal Exposure to Ambient Levels of Benzene and the Risk of Neural Tube Defects among Offspring, Texas, 1999-2004" *Environmental Health Perspectives*. 119: 397-402. PMID: 20923742.

150. Yeh*, H., **Chan, W,** Symanski, E., and Davis, B. (2010) "Estimating transition probabilities for ignorable intermittent missing data in a discrete-time Markov chain". *Communications in Statistics-Simulation and Computation* 39 (2), 433 – 448.

151. Mhoon, K., **Chan, W.**, del Junco, D., Vernon, S. (2010) "A continuous-time Markov chain approach analyzing the stages of change construct from a health promotion intervention". *JP Journal of Biostatistics.* 4:213-226. **(Corresponding author)**

152. Kwon, O., Khaleeq, A., **Chan, W.**, Pavlik, V., Doody, R. (2010) "Apolipoprotein E polymorphism and age at onset of AD in a quadriethnic sample". Dementia and Geriatric Cognitive Disorders. 30: 486-491. PMID: 21252542

153. Lupo, P., Symanski, E., **Chan, W**, Mitchell L., Waller, D., Canfield, M., Langlois, P. (2010) "Differences in Exposure Assignment between Conception and Delivery: The Impact of Maternal Mobility". *Pediatric and Perinatal Epidemiology* 24:200-208

154. Lin,Y., Lairson, D., **Chan, W.**, Du, X., Leung, K., Kennedy-Nasser, A., Martinez, C., Gottschalk, C. Bollard,C., Heslop, H., Brenner, M., Krance, R. (2010) "The Costs and Cost-Effectiveness of Allogeneic Peripheral Blood Stem Cell Transplantation versus Bone Marrow Transplantation in Pediatric Patients with Acute Leukemia" *Biology of Blood and Marrow Transplantation* 16:1272-1281.

155. O'Bryant, S., Lacritz, L., Hall, J., Waring, S., **Chan, W**, Khodr, Z., Massman, P., Hobson, V., Cullum, C. (2010) "Validation of the new interpretive guidelines for the clinical dementia rating scale sum of boxes score in the NACC database", *Archives of Neurology*, 67:746-749.

156. Doody, R., Pavlik, V., Massman, P. Rountree, S., Darby, E., and **Chan, W**. (2010) "Correction:Predicting progression of Alzheimer's disease". *Alzheimer's Research & Therapy*. 2(3):14. PMID: 20470369.

157. Doody, R., Pavlik, V., Massman, P. Rountree, S., Darby, E., and **Chan, W**. (2010) "Predicting progression of Alzheimer's disease". *Alzheimer's Research & Therapy*. 2(1):2. doi:10.1186/alzrt25 (online). PMID: 20178566.

158. Tai, M., Meininger, J., Frazier, L. and **Chan, W.,** (2010) "Ambulatory Blood Pressure and Physical Activity in Heart Failure", *Biological Research for Nursing* 3:269-279.

159. Hamilton, W., Byun, D., **Chan, W.,** Ching, J., 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". *Journal of the National Urban Air Toxics Research Center* 15:1-69.

160. Symanski, E., Stock, T., Tee, P. and **Chan, W** (2009) " Demographic, Residential and Behavioral Determinants of Elevated Exposures to Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) among US population: result from 1999-2000

NHANES" *Journal of Toxicology & Environmental Health*, 72: 915-924. PMID: 19399911.

161. Rountree, S., **Chan, W**, Pavlik, V., Darby, E., Siddiqui, S. and Doody R. (2009) "Persistent treatment with cholinesterase inhibitors and/or memantine slows clinical progression of Alzheimer's disease". *Alzheimer's Research & Therapy*. 1:7 doi:10.183/alrt7 (online). PMID 19845950 PMCID; PMC2874259

162. O'Bryant, S., Hobson, V., Hall, J., Waring, S., **Chan, W.**, Massman, P., Lacritz, L., Cullum, C., and Diaz-Arrastia, R. (2009) "Brain-Derived Neurotrophic Factor Levels in Alzheimer's Disease", *Journal of Alzheimer's Disease* 17: 337-341.

163. Roberts, R., Roberts, C., and **Chan, W**. (2009) "One-year incidence of psychiatric disorders and associated risk factors among adolescents in the community". *J. of child psychology and psychiatry, and allied disciplines*. 50(4):405-15. PMID: 19175820

164. Du, X., Xia, R., Liu, C., Cormier, J., Xing, Y., **Chan, W.**, Hardy, D., and Burau, K. (2009) "Cardiac toxicity associated with anthracycline-containing chemotherapy in older women with breast cancer". *Cancer*. 115: 5296-5308.

165. Hardy, D., Liu, C., Xia, R., Cormier, J., **Chan, W.**, White, A., Burau, K., and Du, X. (2009) "Racial disparities and treatment trends in a large Cohort of elderly black and white patients with non-small cell lung cancer", *Cancer*. 115: 2199-2211. PMID 19365824

166. Holmes, L., **Chan, W.**, Jiang, Z., Ward, D., Essien, J. and Du, X. (2009) "Impact of androgen deprivation therapy on racial/ethnic disparities in the survival of older men treated for locoregional prostate cancer", *Cancer Control*. 16: 176-185.

167. Hassan, M., Spitz, M., Thomas, M., Curley, S., Patt, Y., Vauthey, J., Glove,r K., Kaseb, A., Lozano, R., El-Deeb, A., Nguyen, N., Wei, S., **Chan, W.**, Abbruzzese, J., and Li, D. (2009) "The association of family history of liver cancer with hepatocellular carcinoma: USA case-control study", *Journal of Hepatology*. 50:334-341. PMID:19070394.

168. Hassan, M., Kaseb, A., Li, D., Patt, Y., Vauthey, J., Thomas, M., Curley, S., .Spitz, M., Sherman, S., Abdalla, E., Davila, M., .Lozano, R., Hassan, D., Chan, W., Brown, T., and Abbruzzese, J. (2009) "Association between hypothyroidism and hepatocellular carcinoma: a case-control study in the United States." *Hepatology*. 49:1563-70. PMID:19399911

169. Branch-Vital, A., Fernandez, M., Ross, M., **Chan, W.**, and Smith, W. (2009) "Condom use knowledge and condom use among African-American women:

evidence from a cross-sectional study in Harris county, Texas" *National Forum of Multicultural Issues Journal*. 6(1): 11 pages (online).

170. Fernandez, M. , Gonzales, A., Tortolero-Luna, G., Williams, J., Saavedra-Embesi, M., **Chan, W.,** and Vernon, S. (2009) "Effectiveness of cultivando la salud : a breast and cervical cancer screening promotion program for low-income Hispanic women" *American Journal of Public Health*. 99:936-943.

171. Mahnken, J., **Chan, W.,** Freeman, D. and Freeman, J. (2008) "Reducing the effects of lead-time bias, length bias, and over-detection in evaluating screening mammography: a censored bivariate data approach", *Statistical Methods in Medical Research.* 17:643-663. PMID 18445697 **(Corresponding author)**

172. Yeh, C., Yeh, H. and **Chan, W.** (2008) "Some equivalent forms of the arithmetic-geometric mean inequality in probability: a survey", *Journal of Inequalities and Applications*, Article ID 386715, 9 pages (online).

173. Roberts, R., Roberts, C., and **Chan, W**. (2008) "Persistence and changes in symptoms of insomnia among adolescents". *Sleep* 31:177-184.

174. Davis, C., Kancherla, V., Reddy, A., Chan, W., Yeh, H., Noroski, L., Rosenblatt, H., Shearer, W., Chinen, J. (2008) "Development of specific T-cell responses to Candida and tetanus antigens in partial DiGeorge syndrome. *The Journal of allergy and clinical immunology*. 122:1194-9. PMID:18789819

175. Hassan, M., Spitz, M., Thomas, M., El-Deeb, A., Glover, K., **Chan, W.**, Kaseb, A., Curley, S., Vauthey, J., Ellis, L., Abdalla, E., Lozano, R., Patt, Y., Brown, T., Abbruzzese, J., and Li, D. (2008) "Effect of different types of smoking and synergism with hepatitis C virus on risk of hepatocellular carcinoma in American men and women: case-control study", *International Journal of Cancer*. 123: 1883-1891.

176. White, A., Liu, C., Xia, R., Burau, K., Cormier, J., **Chan, W.,** and Du, L. (2008) "Racial disparities and treatment trends in a large cohort of elderly African Americans and Caucasians with colorectal cancer, 1991 to 2002", *Cancer*. 113: 3400-3409.

177. Vernon, S., del Junco, D. , Tiro, J., Coan, S., Perz, C., Bastian, L., Rakowski, W., **Chan, W.,** Lairson, D., McQueen, A., Fernandez, M., Warrick, C., Halder, A., and DiClemente, C. (2008), "Promoting regular mammography screening II: Results from a randomized controlled trial in US women veterans", J. of National Cancer Institute. 100:347-358.

178. del Junco, D., Vernon, S., Coan, S., Tiro, J., Bastian, L., Savas, L., Perz, C., Lairson, D., **Chan, W.,** Warrick, C., McQueen, A., and Rakowski, W. (2008),

"Promoting regular mammography screening I: A systematic assessment of validity in a randomized trial", J. of National Cancer Institute. 100:333-346.

179. Lin, S., **Chan, W.,** Chen, L. (2008) "A nonparametric coverage interval", *Metrologia*. L1-L4.

180. Lederman, R., **Chan, W**. and Roberts-Gray, C. (2008) "Parent-adolescent relationship education (PARE): program delivery to reduce risks for adolescent pregnancy and STD **"**. *Behavioral Medicine*. 33:137-143. PMID 18316271 PMCID: PMC2566304

181. Kabue, M., Kelitiinwa, A., Maganda, A., Risser, J. **Chan, W.,** Kline, M.. (2008) "Growth in HIV-infected children on antiretroviral therapy at a pediatric infectious diseases clinic in Uganda", *AIDS Patient Care and STDs*. 22:245-251.

182. Mun, Y., **Chan, W.,** Lai, D. (2007) "A homogeneous continuous-time Markov chain approach to repeated categorical measurements: an application to laboratory shift analyses in clinical trials", *J P Journal of Biostatistics*. 2:129-153. **(Corresponding author)**

183. Rountree, S., Waring, S., **Chan, W**., Lupo, P., Darby, E., and Doody, R. (2007) "Importance of amnestic-subthreshold memory disorders in mild cognitive impairment: prognosis and conversion to dementia " *Dementia and Geriatric Cognitive Disorders*. 476-482.

184. Holmes, L., **Chan, W.,** Jiang, Z., and Du, X. (2007) "Effectiveness of androgen deprivation therapy in prolonging survival of old men treated for locoregional prostate cancer", *Prostate Cancer and Prostatic Diseases*. 1-8.

185. Taylor, W., **Chan, W.,** Cummings, S. and Lei*, L. (2007) "The Healthy Growth Study: Findings from year four". *Journal of Exercise Science and Physiotherapy* 3:84-97.

186. Reyes-Gibby C., **Chan W**, Abbruzzese J., Xiong H., Ho L, Evans D., Varadhachary G, Bhat S, Wolff R., Crane C. (2007) "Patterns of Self-Reported Symptoms in Pancreatic Cancer Patients Receiving Chemoradiation" *Journal of Pain and Symptom Management*. 34:244-252

187. Eissa, M., Meininger, J., Nguyen, T. and **Chan, W.** (2007) "The relationship of ambulatory blood pressure to physical activity in a tri-ethnic population of obese and nonobese adolescents" *American Journal of Hypertension.* 20:140-147.

188. Symanski, E., Greeson*, N., S. and **Chan, W.** (2007) "Evaluating measurement error in estimates of worker exposure assessed in parallel by personal and biological monitoring" *American Journal of Industrial Medicine.* 50:112-121.

189. Li, Y., and **Chan, W**. (2006) "Analysis of longitudinal multinomial outcome data". *Biometrical Journal.* 48: 319-326. PMID 16708781 **(Corresponding author)**

190. **Chan, W**. and Peng, N. (2006) "Continuous time Markov chains on a system following an alternating renewal process" *Statistics & Probability Letters.* 76:362-368.

191. Perez, A., **Chan, W**. and Dennis, R. (2006) "Predicting the length of stay of patients admitted for intensive care using a first step analysis" *Health Service Outcomes Research Method.* 6:127-138. PMID 18059977 PMCID: PMC1828134

192. Symanski, E., Maberti, S. and **Chan, W.** (2006) "Meta-analytic approach for characterizing the within-worker and between-worker sources of variation in occupational exposure" *The Annals of Occupational Hygiene.* 50:343-357.

193. Roberts, R., Roberts, C., and **Chan, W**. (2006) "Ethnic differences in symptoms of insomnia among adolescents". *Sleep* 29:359-365.

194. Pavlik, V., Doody, R, Massman, P. and **Chan, W**. (2006) "Influence of premorbid IQ and education on progression of Alzheimer's disease" *Dementia and Geriatric Cognitive Disorders.* 22:367-377.

195. Rivera, S., Vernon, S., Tiro, J., Coan, S., del Junco, D., **Chan, W** and Coker, (2006) "Test-retest Reliability of Self-Reported Mammography in Women Veterans" *Preventive Medicine.* 42: 320-326.

196. Du, X., Fang, S, Coker, A., Sanderson, M., Aragaki, C., Cormier, J., Xing, Y., Gor, B., **Chan, W**. (2006) "Racial Disparity and Socioeconomic Status in Association with Survival in Older Men with Local/Regional Stage Prostate Cancer: Findings From a Large Community-Based Cohort. Cancer" *Cancer*.106:1276-1285.

197. Liehr, P., Meininger, J., Vogler, R., **Chan, W**., R., Frazier, L., Smalling, S., and Fuentes, F. (2006) "Adding story-centered care to standard lifestyle intervention for people with Stage one hypertension" *Applied Nursing Research*.19:16-21.

198. Waring, S., Doody, R., Pavlik, V., Massman, P., and **Chan, W**. (2005) "Survival among patients with dementia from a large multi-ethnic population" *Alzheimer's Disease and Associated Disorders* 19:178-183.

199. Doody, R, Pavlik, V., Massman, P., Kenan, M., Yeh, S., Powell, S., Cooke, N., Dyer, C., Demirovic, J., Waring, S., and **Chan, W**. (2005) "Changing patient characteristics and survival experience in an Alzheimer's disease center patient cohort" *Dementia and Geriatric Cognitive Disorders.* 20:198-208.

200. Du, X., **Chan, W**., Giordano, S., Geraci, J., Delclos, G., Burau, K., and Fang, S. (2005) "Variation in modes of chemotherapy administration for breast carcinoma and association with hospitalization for chemotherapy-related toxicity " *Cancer*. 104:913-924.

201. Lairson, D., **Chan, W**. and Newmark, G. (2005) "Determinants of the demand for the breast cancer screening among women veterans in the United States" *Social Science and Medicine* 61:1608-1617.

202. Lai, Y., **Chan, W**. and Chen, L. (2004) "Generalized and feasible generalized median estimators for the linear regression with AR(1) error model" *Sankhy*. 66:253-252.

203. Lederman, R., **Chan, W**. and Roberts-Gray, C. (2004) "Sexual Risk Attitudes and Intentions of Youth Age 12-14 Years: Survey Comparisons of Parent-Teen Prevention and Control Groups**"**. *Behavioral Medicine*. 29:155-163.

204. Wu, J., Fung, M, **Chan, W**. and Lairson, D. (2004) "Cost-effectiveness analysis of interventions to enhance mammography compliance using computer modeling" 7:175-185 *Value in Health*.

205. Meininger., J., Liehr, P., **Chan, W**., Smith, G. and Mueller, W (2004) "Developmental gender and ethnic group differences in moods and ambulatory blood pressure in adolescents" *Annals of Behavioral Medicine* 28:10-19.

206. Mueller, W, **Chan, W**. and Meininger., J. (2003) "Utility of different body composition indicators: demographic influences and associations with blood pressures and heart rates in adolescents (Heartfelt Study)" 30:714-727 *Annals of Human Biology*.

207. Reyes, L., Meininger., J., Liehr, P., **Chan, W**. and Mueller, W (2003) "Anger in adolescents: gender, ethnicity and age differences and psychometric properties" *Nursing Research*. 52:2-11.

208. Morgenstern, L., Bartholomew, L., Grotta, J., Staub, L., King. M. and **Chan, W**. (2003) "Sustained benefit of a community and professional intervention to increase acute stroke therapy". *Archives of Internal Medicine*. 163: 2198-2202.

209. Chang, L., McAlister, A., Taylor, W. and **Chan, W**. (2003) "Behavioral change for blood pressure control among urban and rural adults in Taiwan". *Health Promotion International*. 18:219-228.

210. Labiche, L., **Chan, W**., Saldin, K., Morgenstern, L. (2002) "Sex and acute stroke presentation". *Annals of Emergency Medicine*. 40:453-460.

211. Taylor, W., **Chan, W.**, Cummings, S., Simmons-Morton, B., McPherson, S., SangiHaghpeykar, H., Pivarnik, J., Mueller, W., Detry, M., Huang, W., Johson-Masotti, A. and Hsu, H. (2002), "Health growth: project description and baseline Findings". *Ethnicity and Disease*. 12:567-577.

212. Gupta, N., Mueller, W., **Chan, W**. and Meininger, J. (2002) "Is obesity associated with poor sleep quality in adolescents?". *American Journal of Human Biology*. 14:762-768.

213. Chang, C., **Chan, W**. and Kapadia, A. (2002), "The analysis of recurrent failure times: the time-dependent Yule process approach". *Communications in Statistics-Theory and Methods*. 31:1203-1213. **(Corresponding author)**

214. Chen, D., **Chan, W.**, Francis, D., Shaywitz,S. and Shaywitz, B.(2002), "Application of two-level negative exponential model to children's learning curve in reading". *Communications in Statistics-Simulation and Computation*. 31:279-299. **(Corresponding author)**

215. Morgenstern L., Staub L, **Chan, W.**, Wein T., Bartholomew L., King M, Felberg R., Burgin W., Groff J., Hickenbottom S., Saldin K., Demchuk A., Kalra A., Dhingra A. and Grotta J. (2002), "Improving delivery of acute stroke therapy: the TLL Temple Foundation stroke project". *Stroke*. 33:160-166.

216. Burgin, W., Staub, L., **Chan.,W**, Wein, T., Felbert, R., Grotta, J., Demchuk, A., Hickenbottoms, S., and Morgenstern, L. (2001),. "Acute stroke care in non-urban emergency departments". *Neurology*. 57:2006-2012.

217. Mueller, W., Cho, S., Meininger., J. Liehr, P. and **Chan, W**. (2001), "Strategies for combining and scaling sexual maturity indicators: the Heartfelt study". *Annals of Human Biology*.28:422 -430.

218. Symanski, E., Sallsten, G., **Chan, W**. and Barregard, L. (2001), "Heterogeneity in sources of exposure variability among groups of workers exposed to inorganic mercury". *The Annals of Occupational Hygiene*. 45:677-687.

219. Quinn, G., Dobson, V., Siakowski, R., Hardy, R., Kivlin, J., Palmer, E., Phelps, D., Repka, M., Summers, C., Tung, B. and **Chan, W.** for the CROP project. (2001), "Does cryotherapy affect refractive error?" *Ophthalmology*, 108:343-347.

220. Pandey, D., Labarthe, D., Goff, D., **Chan, W**. and Nichaman M. (2001), "Community-wide Coronary heart disease mortality in Mexican Americans is as great or greater than in non-Hispanic whites: The Corpus Christi Heart Project". *American Journal of Medicine*. 110:81-87.

221. Chen, L., Welsh, A. and **Chan, W** (2001), "Estimators for the linear regression model based on Winsorized observations". *Statistica Sinica*. 11:147-172.

222. Cho, S., Mueller, W., Meininger, J., Liehr, P. and **Chan, W**. (2001), "Blood pressure and sexual maturity in adolescents: the Heartfelt study". *American Journal of Human Biology*. 13:227-234.

223. Symanski, E., **Chan, W**. and Chang, C. (2001), "Mixed-effects models for the evaluation of long-term trends in exposure levels with and example from the nickel industry". *The Annals of Occupational Hygiene*. 45:71-81.

224. **Chan, W**. Kapadia, A. and Chuang, A. (2001), "A stochastic model of smoking behavior under a cessation program". *Biometrical Journal*. 43:53-62.

225. Vernon, S., Lairson, D., del Junco, D., Perz, C., **Chan W**., Rakowski, W. and Bastian, L. (2000), "Early detection of breast cancer among woman veterans: a study to determine the effectiveness and efficiency of methods to improve compliance with mammography screening guidelines". *Oncology Economics*. 1:32-37.

226. Wein, T., Staub, L., Felberg, R., Hickenbottom, S., **Chan, W**, Grotta, J., Demchuk, A., Groff, J., Bartholomew, L., Morgenstern, L. (2000), "Activation of emergency medical services for acute stoke in a non-urban population: The TLL Temple Foundation Stroke Project". *Stroke*. 31:1925-1928.

227. Liehr, P., Meininger, J., Mueller, W., **Chan, W**., Frazier, L., Reyes, l. (2000), "Psychometric Testing of the Adolescent Version of the Cook-Medley Hostility Scale". *Comprehensive Pediatric Nursing*. 23:103-116.

228. **Chan, W**. and Peng, N. (2000), "A minimum-cost strategy for cluster recruitment". *Biometrical Journal*. 42:877-886.

229. Kapadia, A., **Chan, W**., Sachdeva, R., Moye, L., and Jefferson, L. (2000), "Predicting duration of stay in a pediatric intensive care unit: a Markovian approach". *European Journal of Operational Research*. 124:353-359.

230. Symanski, E., Chang, C. and **Chan, W**. (2000), "Long-term trends on exposure to nickel aerosols". *American Industrial Hygiene Association Journal*. 61:324-333.

231. Meininger, J., Liehr, P., Mueller, W., **Chan, W.,** Smith, G. and Portman, R. (1999), "Stress induced alterations of blood pressure and 24th ambulatory blood pressure in adolescents". *Blood Pressure Monitoring*. 4:115-120.

232. Carvajal, S., Parcel, S., Basen-Enguist, G., Banspach, S., Coyle, K., Kirby, D. and **Chan,W.** (1999), "Psychosocial predictors of delay of first of sexual intercourse by adolescents". *Health Psychology*. 18:443-452.

233. Lin, H., Bondy, M., Langford, L., Hess, K., Delclos, G., Wu, X., **Chan, W.,** Pershouse, M., Yung, K., and Steck, P. (1998), "Allelic deletion analyses of MMAC/PTEN and DMBT1 loci in gliomas: relationship to prognostic significance". *Clinical Cancer Research*. 4:2447-2454.

234. Meshack, A., Goff, D., **Chan,W.,** Ramsey, D., Linares, A., Reyna, R. and Pandey, D. (1998), "Comparison of reported symptoms of acute myocardial infarction in Mexican Americans v.s. Non-Hispanic whites (The Corpus Christi Heart Project)". *The American Journal of Cardiology*. 82:1329-32.

235. Feldman, H., Proschan, M., Murray, D., Goff, D., Sylianou, M., Dulberg, E., McGovern, P., **Chan, W**., Mann, C., Bitter, V. (1998), "Statistical design of REACT (Rapid Early Action for Coronary Treatment), a multi-site community trial with continual data collection". *Controlled Clinical Trials*. 19:391-403.

236. Meininger, J., Liehr, P., Mueller, W., **Chan, W.** and Chandler, P. (1998), "Predictors of ambulatory blood pressure: identification of high-risk adolescents". *Advances in Nursing Science*. 20:50-64.

237. Mueller, W., Meininger, J., Liehr, P., Chandler, P. and **Chan, W.** (1998), "Adolescent blood pressure, anger expression and hostility: possible links with body fat". *Annals of Human Biology*. 25:295-307.

238. Liehr,P., Mueller, W., Meininger, J., Chandler, P. and **Chan, W.** (1997), "Blood Pressure reactivity in urban youth during angry and normal talking". *The Journal of Cardiovascular Nursing*. 11:85-94.

239. Batey, L., Goff, D., Tortolero, S., Nichaman, M., **Chan, W.,** Chan, F., Grunbaum, J., Hanis, C. and Labrathe, D. (1997), "Summary measures of the Insulin resistance syndrome are adverse among Mexican-American versus non-Hispanic white children: the Corpus Christi Heart Project". *Circulation*. 96:4319-4325.

240. Chen, L., **Chan,W**., and Lee, T. (1997), "Tensor product polynomial splines". *Communications in Statistics: Theory and Methods*, 26:2093-2111.

241. Mazur, L., Yetman, R. and **Chan, W.** (1997), "Temperature comparisons with Four thermometer types". *Ambulatory Child Health*. 3: 21-26.

242. Goff, D., Nichaman, M. **Chan, W**., Ramsey, D., Labarthe, D. and Ortiz, C. (1997), "Greater Incidence of hospitalized myocardial infraction among Mexican

Americans than non-Hispanic whites: the Corpus Christi Heart Project".
Circulation. 95:1433-1440.

243. Mueller, W., Meininger., Liehr, P. **Chan, W**. and Chandler, P. (1996),
"Demographic moderators of biological variables: lessons from a pilot project of
anger and blood pressure". *Revista di Antropologia*. 74:139-146.

244. Napoli, K., **Chan, W**., and Wang, M. (1996), "An appropriate statistical Approach
for the comparison of FPIA to HPLC for determination of cyclosporine
concentrations in animal tissues". *Journal of Clinical Ligand Assay*. 19:190-197.

245. Yetman, R, Portman R., Thomas, V., **Chan, W**., Smolensky, M. and Franco, K.
(1996), "Non-Invasive ambulatory blood pressure monitoring: effect on nocturnal
sleep of children and adults". *Blood Pressure Monitoring*. 1:1-3.

246. **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.

247. **Chan, W**. (1996), "Maximizing the probability of pest extinction on a stochastic
pest-predator model". *Statistics & Probability Letters*. 20:265-270.

248. 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.

249. Mueller, W., Meininger, J., Liehr, P., **Chan, W.** and Chandler, P. (1996), "Conicity:
a new index of body fat distribution. What does it tell us?". *American Journal of
Human Biology*. 8:489-496.

250. Mueller, W., Taylor W., **Chan, W.,** Sangi, H., Snider, S. and Hsu H. (1996), "The
Precision of measuring body fat distribution in adolescent African-American girls
from the "Healthy Growth Study". *American Journal of Human Biology*. 8:325-
329.

251. Mazur, L., Moyer, V., Lally, P., and **Chan, W**. (1996), "Evaluation of a lead
screening program in Houston, Texas". *Texas Medicine*. 92:54-57

252. Thomas, V., **Chan, W.** Yetman, R. Smolensky, M. and Portman R. (1995),
"Circadian rhythms of blood pressure and heart rate in healthy persons and kidney
transparent patients: correlations with activity". *Chronobiology International*.
12:419-426.

253. 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.

254. **Chan, W**., Bartoszynski, R., and Pearl, D. (1993), "Queues with breakdowns and Customers discouragement". *Probability and Mathematical Statistics*. 14:77-87.

255. 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.

256. **Chan, W**. (1992), "A sum of ratios of combinations in sequential sampling". *Texas Journal of Science*. 44:362-363.

257. **Chan, W.,** Li*, A., and Co, H. (1989), "Machine parameter selection for a stochastic flow system.". *IIE Transactions* 21:241-249.

258. 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 and 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 2nd International Heart Health Conference, in June, 1995.

30. ElSouki*, R., **Chan, W** and Kapadia, A. "Modeling the survival of T-cell Lymphocytes" presented at 4th 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 4th 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 121st 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 21st 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 3rd 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 5th 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 Chan" at the 4th 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 Pharmacoeconomics 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 tine Markov chains on cyclic stages" presented at 10th 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:

Past:

1. "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.

2. "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.

3. "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.

4. "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.

5. "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.

6. "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.

7. "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.

8. "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.

9. "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.

10. "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.

11. "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.

12. "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.

13. "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.

14. "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.

15. "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.

16. "REACT Intervention", Funded by Genetech Inc. Duration: 1/00 –08/08, Total Budget: $11,963.94.

17. "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.

18. "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. (Pending set up).

2. "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 – 05/30.

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: 08/23-07/25.

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 - 1/25.

6. "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.

Past:

7. "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.

8. "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.

9. "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.

10. "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.

11. "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.

12. "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.

13. "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.

14. "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.

15. "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.

16. "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.

17. "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.

18. "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.

19. "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.

20. "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.

21. "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.

22. "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.

23. "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.

24. "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.

25. "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.

26. "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.

27. "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.

28. "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.

29. "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.

30. "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.

31. "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.

32. "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.

33. "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.

34. "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.

35. "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.

36. "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.

37. "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.

38. 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
- 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. Chair of Admission Committee, Department of Biostatistics and Data Science, University of Texas – Health Science Center at Houston, 2022-present.

2. Chair of Faculty Evaluation/Promotion and Mentoring Committee, Department of Biostatistics and Data Science, University of Texas – Health Science Center at Houston, 2017-2022.

3. Chair of Student Scholarship Review Committee, Department of Biostatistics and Data Science, University of Texas – – Health Science Center at Houston, 2014-2023.

4. Chair of Biostatistics Teaching Position Search Committee, School of Public Health, University of Texas –Health Science Center at Houston, 2020. (member 2018-2019).

5. Member of Biostatistics Teaching Position Search Committee, School of Public Health, University of Texas –Health Science Center at Houston, 2021.

6. Member of Scholarship Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2021-present.

7. Chair of Biostatistics Chair Search Committee, School of Public Health, University of Texas –Health Science Center at Houston, 2015-2017.

8. 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.

9. 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.

10. Chair of Biostatistics Teaching Faculty Position Search Committee, School of Public Health, University of Texas – – Health Science Center at Houston, 2013.

11. 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.

12. Coordinator of Academic Program, Department of Biostatistics, School of Public Health, University of Texas – Health Science Center at Houston, 2010-2016.

13. Member of Academic Council, School of Public Health, University of Texas – Health Science Center at Houston, 2010-2016.

14. Chair, Curriculum Renovation Committee, Division of Biostatistics, School of Public Health, University of Texas – Health Science Center at Houston, 2009 - 2016.

15. Member of Biostatistics Division Director Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2008-2009.

16. Member of 4-Faculty Position Search Committee, Division of Biostatistics, School of Public Health, University of Texas – Health Science Center at Houston, 2008-present.

17. Member of 10-Faculty Position Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2009-2010.

18. Member of Faculty Council, School of Public Health, University of Texas – Health Science Center at Houston. 2004-2007.

19. Member of Awards Committee, University of Texas – Health Science Center at Houston. 2001-2003.

20. Chair of Biostatistics Division Director Search Committee, University of Texas – Health Science Center at Houston. 2003.

21. 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.

22. 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.

23. Member of Admission Committee, Division of Biostatistics , School of Public Health, University of Texas – University of Texas – Health Science Center at Houston. 1990-present.

24. Nominating Committee, University of Texas – University of Texas – Health Science Center at Houston. Chair: 1998-1999 and Member: 1997-1999.

25. Member of Multi-cultural Affairs Committee, University of Texas – University of Texas – Health Science Center at Houston. 1992-1993 and 1996-1998.

26. 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.

27. 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.
- 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 (sponsored by National Science Foundation). 2015 – 2018 and 2020-2022.
- 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, 2013, 2014, 2017, 2019.
- Referee for American Journal for Men's Health, 2012, 2013, 2014 and 2015.
- Referee for Annals of Surgical Oncology, 2011and 2013.
- Referee for Biometrics 2017.
- Referee for BMC Medical Research Methods, 2011.
- Referee for Computational Statistics and Data Analysis 2016
- Referee for Electronic Journal of Statistics, 2012.
- Referee for Pain Medicine 2019
- Referee for Hospital Practice 2019.
- Referee for IET Control Theory and Application 2014
- Referee for Infectious Disease Modeling 2022
- Referee for International Journal of Epidemiology and Global Health 2019
- Referee for Journal of Applied Statistics, 2013. 2018, 2019 and 2021.
- Referee for Journal of Medical Economics 2018, 2019, 2021 and 2022.

- Referee for Probability and Statistics Letters, 2014.
- Referee for Paediatric and Perinatal Epidemiology, 2012.
- Referee for Statistics in Medicine, 2013, 2016, 2017, 2020, 2021 and 2022.
- Referee for Statistical Methods in Medical Research 2021 and 2022.
- Referee for Technology in Society 2019
- Referee for Transitional Cancer Research, 2014
- Referee for Value in Health, 2011.

THESIS AND DISSERTATION SUPERVISION:

Doctoral Dissertation Supervisor:

1. August, 2023, Jacky Kuo, Ph.D.
   "Latent Classification Models for Multistate Data Following a CTMC".

2. 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".

3. 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"

4. May, 2020, Abigail Sedory, Ph.D.
   "Sample Size Calculations For Longitudinal Mediation Analysis With Continuous-time Markov Chain Variables".

5. May, 2020, Kusha Mohammadi, Ph.D.
   "A Partial Likelihood Approach to Longitudinal Data using a Continuous-Time Semi-Markov Model".

6. August, 2019, Ting-Yu Chen, Ph.D.
   "Patient-reported Outcomes for Survival Prediction and Dimension Reduction".

7. May 2019, Alokananda Ghosh, MD, Ph.D.
   "A Dynamic Competing Risk Model for Multi-type Recurrent Events with Dependent Termination"

8. 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)

9. August 2016, Ho-Lan Peng, Ph.D.
   "Some Statistical Issues on Progression of Alzheimer's Disease".

10. May 2016, Chih-Hsien Wu, Ph.D.
    "Analysis of Bivariate Longitudinal Discrete Data: A Joint Continuous-Time Markov Chain Approach".

11. 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".

12. May, 2015, Roann Seay, Ph.D.
    "Using a Joint-Continuous Time Markov Chain Model to Represent the Trauma Patient's ICU and Ventilator Experience".

13. May, 2014, Julia Benoit, Ph.D.
    "Analysis of longitudinal data using a three-state continuous time Markov model with misclassification".

14. May, 2014, Jing Jiang, Ph.D.
    "A novel concept on incremental cost-effectiveness ratio censored cost data".

15. December, 2013, Junsheng Ma, Ph.D.
    "A Bayesian approach to longitudinal categorical data in a continuous time A Markov chain model".

16. 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.

17. August, 2011, Jang Yang, Ph.D.
    "Some issues on studies of mixed longitudinal design".

18. December, 2010, Shang-Ying Liang, Ph.D.
    "A novel method for evaluating an interaction effect of correlated continuous covariates in a linear model".

19. May, 2008, Kendra Mhoon, Ph.D.*
    "A continuous-time Markov chain approach for trinomial outcome longitudinal data: an extension for multiple covariates".

20. May, 2008, Younghun Han, Ph.D.
    "Mathematical and empirical examinations of some epidemiological procedures".

21. August, 2007, Charles Minard, Ph.D.*.
   "Trends in Binary, Longitudinal Data with Application to Smoking Cessation Studies".

22. May, 2007, Hung-Wen Yeh, Ph.D.*
   "Estimating parameters in Markov models for longitudinal studies with missing data or surrogate outcome".

23. May, 2007, Tsai Su-jau Yang, Ph.D.
   "Estimation of duration between two consecutive Tanner stages in human growth".

24. 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".

25. May, 2005, Nancy Wuan-Szu Wang, Ph.D.
   "Analysis of outliers for logistic regression based on predicted probability and Winsorized observations".

26. May, 2005, Yen-Peng Li, Ph.D.*
   "Longitudinal categorical data analysis: a continuous-time Markov chain approach".

27. May, 2005, Hyung Woo Kim, Ph.D.
   "Bayesian dual threshold phase II design with Dirichlet process".

28. August, 2004, Lei Lei, Ph.D.
   "Analyze longitudinal outcome data as a transformation of Poisson process".

29. 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".

30. December, 2003, Michelle Detry, Ph.D.*.
   "A logistic regression model with misclassification in the outcome variable and categorical covariate".

31. 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".

32. May, 2003, Tony Lam, Ph.D.
   "Power and sample size for community intervention trial with binary outcome".

33. December, 2000, Tara Maddala, Ph.D.
"A parametric model for analyzing recurrent nonfatal events in the presence of fatal events".

34. August, 2000, Arlene Correa, Ph.D.
"Modeling a health promotion campaign Process".

35. May, 2000, Dung-Tsa Chen, Ph.D.*
"Mixed effects models in negative exponential curve".

36. August, 1999, Chung-Chi Chang, Ph.D.*
"Analysis of recurrent failure tine: a time-dependent Yule process approach".

37. May, 1999, Michael Johnson, Ph.D.
"A comparison of Markov and generalized linear models of hospital mortality".

38. May, 1999, Dorothy Stowers, Ph.D.
"Design and implementation of a multicriteria medical decision support system for diagnosis and treatment".

39. August, 1995, Hai-An Hsu, Ph.D.
"Logistic regression with incompletely observed binary covariates".

40. May, 1993, Rabih Elsouki, Ph.D.*
"Modeling the survival of T-cell lymphocytes using compound branching processes".

Master Thesis Supervisor:

1. August, 2008, Fu-Wen Liang, M.S.
"The impact of functional impairment on the survival of patients with Alzheimer's disease".

2. May, 2006, Ashwini Shewade, M.S.
"Use of expectation and maximization (EM) algorithm to estimate the repeat mammography prevalence rate of non-respondents".

3. May, 2003, Binu Lal, M.S.
"A simulation study on sample size and power of the Breslow-Day test".

4. May, 2003, Tso-Yu Liao, M.S.
"Development and validation of comorbidity indexes for coronary heart disease patients".

5. December 2003, Alambardar A. Khuwaja, MPH
    "Prevalence and comorbidities associated with colorectal cancer-a large medical organization case-control study".

6. December, 1998, Anna Frolov, M.S.
    "Robust Adjustment to orthogonal regression estimators".

7. December, 1996, Linda DeFord, M.S.
    "Assessment of interrater agreenent using a binomial based statistic: K(BIN)"

8. August, 1992, Michael L. Johnson, M.S.
    "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.**

9. December, 1993, Tsai Su-jau Yang, M.S.
    "Stochastic model of transmission of Influenza".