

## WENYAW CHAN

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### EDUCATION:

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

### PROFESSIONAL EXPERIENCE:

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

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:**

- 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. Peng, H., Aschenbrenner, A., von Sternberg, K., Mullen, P. and **Chan** (2018) "A Continuous-time Markov Chain Approach with the Analytic Likelihood in Studies of Behavioral Changes" *Communications in Statistics – Theory and Methods*. (in press) (**Corresponding author**)
2. Yu, X., **Chan, W.**, Swartz, M., and Piller, L. (2018) "Joint models of dynamics of mothers' stress and children's disease" *Communications in Statistics - Simulation and Computation* (in press). (**Corresponding author**)
3. 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.
4. 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.
5. 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.
6. 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.**)
7. 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.
8. 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.

9. 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
10. 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.
11. 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.
12. 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.
13. El-Hattab A., Dai, H., Almannai, M., Wang J., Fageih, 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
14. 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.
15. 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.
16. 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*

17. 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)**
18. 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.
19. 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
20. 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.
21. 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.
22. 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)**
23. 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)**
24. 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.
25. 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)**
26. 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

27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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* (doi: 10.1002/cre2.24).
34. 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)**
35. 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)**

36. 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.
37. 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.
38. 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<sub>2</sub>, homocysteine and Alzheimer’s disease”. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*. 1: 464-471.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.

45. 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.
46. 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 ovarian cancer”. *Value in Health*. 18:387-395.
47. 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
48. 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
49. 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.
50. 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
51. 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.
52. Abbass, I., Virani, S., Swint, J., **Chan, W.**, and Franzini, L. (2014) “One Year Costs and Outcomes Associated with Using Observation Services in Triage Patients with Non-specific Chest Pain” *Clinical Cardiology*. 10:591-596. PMID: 25113151
53. 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.



54. 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.
55. 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.
56. 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.
57. 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.
58. 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
59. Hall, J., Wiechmann, A., Johnson, L., Edwards, M., Barber, R., Cunningham, R., Singh, M., O'Bryant, S., Doody, R., Roundtree, S., Pavlik, V., **Chan, W.**, Massman, P., Darby, E., Evans, T., Williams, 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
60. 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
61. 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.
62. 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.
63. Luu, H., Amirian, E., Beasley, R., Pillar, L., **Chan, W**, and Scheurer, M. (2013) "Clinical implications of the cervical papanicolaou test results in the management of anal warts in HIV-infected women". *PLoS ONE* 8(11): e81751. doi:10.1371 PMID: 24312348.
64. 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.
65. 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
66. 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.
67. 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.
68. 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.
69. 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.
70. 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. PMID: PMC3675875.

71. 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.
72. 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.
73. 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.
74. 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.
75. 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.
76. 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.
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205. 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.
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209. **Chan, W.**, Li\*, A., and Co, H. (1989), "Machine parameter selection for a stochastic flow system.". *IIE Transactions* 21:241-249.
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**Peer-Reviewed Book Chapters/Proceedings:**



1. 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.
2. 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.
3. 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.
4. **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.
5. 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.
6. 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.
7. Hsu, H. and **Chan, W.** (1995), "Logistic regression with incompletely observed binary covariates" *Proceedings of Biometrics Section, Joint Statistical Meetings*. 219-224.
8. **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. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. Peng\*, H., Wu, C. and **Chan, W.** “Some hybrid approaches to prediction of a binary outcome”, presented at Joint Statistical Meetings in August, 2015.
10. 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.

11. **Chan, W.**, Yu, X. and Symanski, E. “Does imputation increase testing power?”, presented at Joint Statistical Meetings in August, 2013.
12. **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.
13. 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.
14. **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.
15. **Chan, W.**, Li, Y. and Yeh, H. “Analysis of longitudinal trinomial outcome through a surrogate variable” presented at Joint Statistical Meetings in August 2006.
16. 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.
17. **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.
18. **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.
19. 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.
20. **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.
21. Chang, C. and **Chan, W.** “Analysis of recurrent models: the Corpus Christi heart Project as an example” presented at Joint Statistical Meetings in August 2001.
22. Chen\*, D., Francis, D. and **Chan, W.** “Item response theory: an approach of Mixed models” presented at Joint Statistical Meetings in August 2001.

23. **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.
24. **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.
25. Hsu\*, H. and **Chan, W.** "Logistic regression with incompletely observed binary Covariates" presented at Joint Statistical meetings in August, 1995.
26. **Chan, W.** and Chuang, A. "A Markov model for longitudinal count data" presented at Joint Statistical Meetings in August, 1995.
27. **Chan, W.**, Goff, D., Ramsey, D., Ortiz, C., Labarthe, D. and Nichaman, M. "Determinants of pre-hospital delay in the Corpus Christi heart project" presented at 2<sup>nd</sup> International Heart Health Conference, in June, 1995.
28. ElSouki\*, R., **Chan, W.** and Kapadia, A. "Modeling the survival of T-cell Lymphocytes" presented at 4<sup>th</sup> International Conference on Mathematical Population Dynamics, in May, 1995.
29. **Chan, W.** and Kapadia, A. "A stochastic model of smoking behavior under a Cessation program with relapses" presented at 4<sup>th</sup> International Conference on Mathematical Population Dynamics, in May, 1995.
30. Johnson\*, M., **Chan, W.** and Kapadia, A. "Computer simulation of a stochastic Model of smoking status and lung cancer incidence" presented at the 121<sup>st</sup> APHA conference in October, 1993.
31. **Chan, W.** Kapadia, A. Johnson, M. "A stochastic model of smoking status Cessation program" presented at ENAR annual meeting in March, 1993.
32. **Chan, W.**, Pearl D., and Bartoszynski, R. "M/M/1 queues with intervention and Binomial discouragement" presented at 21<sup>st</sup> Conference on Stochastic Progresses and Their Applications in July, 1992.
33. **Chan, W.**, Kapadia, A., and Johnson, M. "A stochastic model of smoking status Under cessation program" presented at 3<sup>rd</sup> International Conference on Mathematical Population Dynamics, in June, 1992.
34. **Chan, W.** "Optimal pest control for a stochastic pest-predator model." Presented at Joint Statistical Meetings in August, 1986.

**INVITED PRESENTATIONS:**

1. Chan, W. "Statistical Analysis of Cyber Security Data". Workshop on Security and Privacy 2018.
2. Benoit, J. and **Chan, W.** "A Hidden Markov Model approach to analyze longitudinal ternary outcome subject to possible misclassification" at the 5<sup>th</sup> Statistics Day - Texas A&M University-Kingsville, 2016.
3. Ma, J. and **Chan, W.** "A Bayesian Approach for Analyzing Data Generated from a Continuous Time Markov Chain" at the 4<sup>th</sup> Statistics Day - Texas A&M University-Kingsville, 2015.
4. **Chan, W.** "Using Markov Chains to Describe the Processes of Chronic Diseases" at University of Houston, College of Pharmacy, 2012, broadcasted to the monthly conference of the International Society for 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 time Markov chains on cyclic stages” presented at 10<sup>th</sup> international Symposium on Applied Stochastic Models and Data Analysis (Invited Session), in June, 2001.
17. **Chan, W.** “Population processes under random environments” presented at Department of Statistics, National Chung-Hsin University, Taiwan in July, 1994.
18. **Chan, W.** “Queues with breakdowns and customers discouragement” presented in Institute of Statistics, National Chiao-Tung University, Taiwan in June, 1994.
19. **Chan, W.** “Examples of statistical consulting in the medical community” Presented at Department of Statistics, University of Michigan in September, 1992.

#### **SPONSORED RESEARCH:**

##### **K –awards**

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

1. “Improving prevention of mother-to-child HIV transmission outcomes in Malawi” funded by National Institute of Health/Fogarty International Center (K01). Duration: 9/2013 to 8/2018. Total direct cost: \$122,816. PI: Dr. Maria Kim.

##### **Training Grants**

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

2. “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:**

3. “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.

4. “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.
5. “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.
6. “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.
7. “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.
8. “The UTSPH Training and Career Development Program for Cancer Prevention and Control” funded by National Cancer Institute, National Institute of Health. Duration: 09/2003-06/2008. Total direct cost: \$2,500,000. PI: Dr. Patricia Mullen.

## **Research Grants**

### **As Principal Investigator:**

#### **Current:**

1. “Biomarker Guided Therapies in Stage A/B Heart Failure” Subcontracted from Michael E. DeBakey VA Medical Center. Duration: 10/14-09/19. Total Local Budget: \$45,000.
2. “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.

#### **Past:**

3. “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.
4. “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.

5. “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.
6. “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.
7. “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.
8. “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.
9. “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.
10. “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.
11. “REACT Intervention”, Funded by Genetech Inc. Duration: 1/00 –08/08, Total Budget: \$11,963.94.
12. “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.
13. “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 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.



2. “Lymphatic and systemic immunity changes in post-radiation lymphedema development” Funded by National Institute of Health. PI: Dr. Melissa Aldrich. Time release: 2% year1, 10% years 4 and 5. Duration: 4/16 - 3/21. Total Budget: \$240,721.
3. “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.

**Past:**

4. “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.
5. “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.
6. “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.
7. “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.
8. “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.
9. “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.
10. “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.
11. “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.

12. "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.
13. "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.
14. "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.
15. "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.
16. "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.
17. "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.
18. "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.
19. "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.
20. "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.
21. "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.
22. "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.

23. "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.
24. "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.
25. "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.
26. "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.
27. "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.
28. "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.
29. "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.
30. "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.
31. 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: "Mentors Offering Maternal Support (MOMS): Building Resilient Families". (PI: Col Karen Weis). 2014- 2017.
2. 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 Faculty Evaluation/Promotion and Mentoring Committee, Department of Biostatistics and Data Science, University of Texas – Health Science Center at Houston, 2017-present.
2. Chair of Student Scholarship Review Committee, Department of Biostatistics and Data Science, University of Texas – Health Science Center at Houston, 2014-2018.
3. Chair of Biostatistics Chair Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2015-2017.
4. 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.
5. 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.

6. Chair of Biostatistics Teaching Faculty Position Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2013.
7. 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.
8. Coordinator of Academic Program, Department of Biostatistics, School of Public Health, University of Texas – Health Science Center at Houston, 2010-2016.
9. Member of Academic Council, School of Public Health, University of Texas – Health Science Center at Houston, 2010-present.
10. Chair, Curriculum Renovation Committee, Division of Biostatistics, School of Public Health, University of Texas – Health Science Center at Houston, 2009 - present.
11. Member of Biostatistics Division Director Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2008-2009.
12. Member of 4-Faculty Position Search Committee, Division of Biostatistics, School of Public Health, University of Texas – Health Science Center at Houston, 2008-present.
13. Member of 10-Faculty Position Search Committee, School of Public Health, University of Texas – Health Science Center at Houston, 2009-2010.
14. Member of Faculty Council, School of Public Health, University of Texas – Health Science Center at Houston. 2004-2007.
15. Member of Awards Committee, University of Texas – Health Science Center at Houston. 2001-2003.
16. Chair of Biostatistics Division Director Search Committee, University of Texas – Health Science Center at Houston. 2003.
17. 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.
18. 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.

19. Member of Admission Committee, Division of Biostatistics , School of Public Health, University of Texas – University of Texas – Health Science Center at Houston. 1990-present.
20. Nominating Committee, University of Texas – University of Texas – Health Science Center at Houston. Chair: 1998-1999 and Member: 1997-1999.
21. Member of Multi-cultural Affairs Committee, University of Texas – University of Texas – Health Science Center at Houston. 1992-1993 and 1996-1998.
22. 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.
23. Member of Peer Review Committee, School of Public Health, University of Texas – University of Texas – Health Science Center at Houston. 1995.

#### **PROFESSIONAL SERVICE:**

- 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, 2016, 2017 and 2018.
- Invited Panelist for Essential Data Analytics Knowledge for Cyber-Security Professionals and Students. 2015.
- Member of the editorial board Austin Biostatistics and Biometrics Journal. 2014-present.
- Guest Editor for Model Assisted Statistics and Applications 2012.
- Grant Reviewer for Department of Defense Congressionally Directed Medical Research Programs (CDMRP) 2012, 2013, 2014, 2015 and 2018.
- 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 and 2017.
- Grant Reviewer for National Science Foundation-Methodology, Measurement and Statistics Program, 2011, 2013.
- Referee for Biometrics 2017.
- Referee for Transitional Cancer Research, 2014
- Referee for Alzheimer's & Dementia, 2013, 2014.
- Referee for Probability and Statistics Letters, 2014.
- Referee for IET Control Theory and Application 2014

- Referee for Journal of Applied Statistics, 2013.
- Referee for Electronic Journal of Statistics, 2012.
- Referee for American Journal for Men's Health, 2012, 2013, 2014 and 2015.
- Referee for Paediatric and Perinatal Epidemiology, 2012.
- Referee for BMC Medical Research Methods, 2011.
- Referee for Annals of Surgical Oncology, 2011 and 2013.
- Referee for Measurement, 2010.
- Referee for Communication in Statistics-Simulation and computation, 2009.
- Referee Grant Reviewer for Kentucky Science and Engineering Foundation, 2009 and 2013.
- Referee for Measurement, 2010.
- Member of Editorial Board for Trends in Applied Sciences Research, 2006-2008
- Referee for Journal of American Statistical Association, 2007.
- Referee for Journal of Occupational & Environmental Hygiene, 2007.
- Referee for Applied Mathematical Modelling, 2006
- Grant Reviewer for National Medical Research Council, Government of Singapore, 2005, 2006, 2008, 2009, 2011 and 2013.
- Referee for Value in Health, 2005, 2006, 2008 and 2011.
- Referee for Biometrics, 2004, 2005.
- Reviewer for American Statistical Association's ISI travel fund, 2003.
- Referee for Advances and Applications in Statistics, 2002.
- Referee for Controlled Clinical Trials, 2002.
- Session Chair for Joint Statistical Meetings, August, 2001 and 2003.
- Session Chair for Drug Information Association 36<sup>th</sup> Annual meeting, 2000.
- Referee for Chronobiology International, 1990, 1993, 1994, 1995, 1997, 1998, 1999 and 2001.
- Member of Program Committee, The 11<sup>th</sup> IEEE Symposium on Computer-Based Medical Systems, June 1998.
- Referee for Journal of Speech and Hearing Research, 1996.
- Referee for American Journal of Epidemiology, 1994, 1996.
- Referee for Statistics in Medicine, 1995, 2005, 2013, 2017.
- Co-organizer for Multi-Level Statistical Workshop, Houston, Texas. 1994.
- Referee for IIE Transactions, 1994.
- Referee for Production and Management, 1991.

#### **OTHER SERVICE:**

- YMCA- International Services (an IRS 501c3 non-profit organization)  
Member, Board of Directors, 2002 -2004.  
Providing administrative support to several projects including refugee services in Houston and construction of classrooms in rural areas of Viet Nam.

- Taiwanese Heritage Society of Houston (an IRS 501c3 non-profit organization)  
Vice Chairperson, Board of Directors, 2001 - 2003.  
Chairperson, Committee for Federal Project Compliance and Indigent Cares, 2001 – 2002.  
Assisting the Board’s chairperson on directing the mission of the organization and leading the committee to design its community outreach programs and to provide educational and financial services to seniors and children from low-income families in greater Houston area.

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

- 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”  
**Current Position:** Research Analyst, Department of Biostatistics, University of Texas- M. D. Anderson Cancer Center. (Co-Mentoring with Dr. Jose-Miguel Yamal)
- August 2016, Ho-Lan Peng, Ph.D.  
“Some Statistical Issues on Progression of Alzheimer’s Disease”.  
**Current Position:** Research Associate, University of Texas-Health Science Center at Houston.
- May 2016, Chih-Hsien Wu, Ph.D.  
“Analysis of Bivariate Longitudinal Discrete Data: A Joint Continuous-Time Markov Chain Approach”.  
**Current Position:** Senior Statistician, Pepsi Co.
- 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”.  
**Current Position:** Assistant Professor, University of Texas-Medical Branch at Galveston.
- May, 2015, Roann Seay, Ph.D.  
“Using a Joint-Continuous Time Markov Chain Model to Represent the Trauma Patient’s ICU and Ventilator Experience”.  
**Current Position:** Senior Biostatistician, QuintilesIMS, Durham, NC.
- May, 2014, Julia Benoit, Ph.D.  
“Analysis of longitudinal data using a three-state continuous time Markov model with misclassification”.  
**Current Position:** Assistant Professor, Department of Basic Vision Sciences, University of Houston.



- May, 2014, Jing Jiang, Ph.D.  
“A novel concept on incremental cost-effectiveness ratio censored cost data”.  
**Current Position:** Statistical Analyst, Division of Quantitative Sciences, University of Texas- M. D. Anderson Cancer Center.
- December, 2013, Junsheng Ma, Ph.D.  
“A Bayesian approach to longitudinal categorical data in a continuous time A Markov chain model”.  
**Current Position:** Post-Doctoral Researcher, Department of Biostatistics, University of Texas- M. D. Anderson Cancer Center.
- 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.**  
**Current Position:** Assistant Professor, Kaohsiung Medical University, Taiwan.
- August, 2011, Jang Yang, Ph.D.  
“Some issues on studies of mixed longitudinal design”.  
**Current Position:** Biostatistics Manager, Amgen Inc., Thousand Oaks, CA.
- December, 2010, Shang-Ying Liang, Ph.D.  
“A novel method for evaluating an interaction effect of correlated continuous covariates in a linear model”.  
**Current Position:** Associate Statistical Science Director at PPD, Seattle, WA.
- May, 2008, Kendra Mhoon, Ph.D.\*  
“A continuous-time Markov chain approach for trinomial outcome longitudinal data: an extension for multiple covariates”.  
**Current Position:** Assistant Professor, University of Houston-Downtown.
- May, 2008, Younghun Han, Ph.D.  
“Mathematical and empirical examinations of some epidemiological procedures”.  
**Current Position:** Instructor, Dartmouth University.
- August, 2008, Fu-Wen Liang, M.S.  
“The impact of functional impairment on the survival of patients with Alzheimer's disease”.  
**Current Position:** Project Manager, National Cheng Kung University, Taiwan.
- August, 2007, Charles Minard, Ph.D.\*  
“Trends in Binary, Longitudinal Data with Application to Smoking Cessation Studies”.  
**Current Position:** Assistant Professor, Baylor College of Medicine.

- May, 2007, Hung-Wen Yeh, Ph.D.\*  
“Estimating parameters in Markov models for longitudinal studies with missing data or surrogate outcome”.  
**Current Position:** Associate Investigator and Biostatistician, Laureate Institute for Brain Research, Tulsa, OK 74136
- May, 2007, Tsai Su-jau Yang, Ph.D.  
“Estimation of duration between two consecutive Tanner stages in human growth”.  
**Current Position:** Biostatistician, Kaiser Permanente Inc. Los Angel, CA.
- 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”.  
**Current Position:** Christiana Care Director of Research, Delaware Health Sciences Alliance, University of Delaware, DE.
- May, 2006, Ashwini Shewade, M.S.  
“Use of expectation and maximization (EM) algorithm to estimate the repeat mammography prevalence rate of non-respondents”.  
**Current Position:** Senior Research Analyst, Cedar Associates LLC, CA.
- May, 2005, Nancy Wuan-Szu Wang, Ph.D.  
“Analysis of outliers for logistic regression based on predicted probability and Winsorized observations”.  
**Current Position:** Research Associate, National Health Research Institutes, Taiwan.
- May, 2005, Yen-Peng Li, Ph.D.\*  
“Longitudinal categorical data analysis: a continuous-time Markov chain approach”.  
**Current Position:** Deputy Manager for Research, Industrial Technology Research Institute, Division of Biomedical Technology, Taiwan
- May, 2005, Hyung Woo Kim, Ph.D.  
“Bayesian dual threshold phase II design with Dirichlet process”.  
**Current Position:** Associate Director, Astellas Pharma, Chicago, IL.
- August, 2004, Lei Lei, Ph.D.  
“Analyze longitudinal outcome data as a transformation of Poisson process”.  
**Current Position:** Biostatistical Manager, Amgen, Inc, CA.
- 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”.  
**Current Position:** Associate Professor, University of Kansas Medical Center, Preventative Medicine and Public Health, Kansas, City, KS

- December, 2003, Michelle Detry, Ph.D.\*  
“A logistic regression model with misclassification in the outcome variable and categorical covariate”.  
**Current Position:** Statistical Scientist, Berry Consultant.
- December 2003, Alambardar A. Khuwaja, MPH  
“Prevalence and comorbidities associated with colorectal cancer-a large medical organization case-control study”.
- 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”.  
**Current Position:** Statistician, Genentech, CA.
- May, 2003, Tony Lam, Ph.D.  
“Power and sample size for community intervention trial with binary outcome”.  
**Current Position:** Manager, Systems Analyst Services University of Texas, M D Anderson Cancer
- May, 2003, Binu Lal, M.S.  
“A simulation study on sample size and power of the Breslow-Day test”.
- May, 2003, Tso-Yu Liao, M.S.  
“Development and validation of comorbidity indexes for coronary heart disease patients”.
- December, 2000, Tara Maddala, Ph.D.  
“A parametric model for analyzing recurrent nonfatal events in the presence of fatal events”.  
**Current Position:** Director, Genomic Health Inc., CA.
- August, 2000, Arlene Correa, Ph.D.  
“Modeling a health promotion campaign Process”.  
**Current Position:** Assistant Professor, Department of Surgery , University of Texas- M. D. Anderson Cancer Center.
- May, 2000, Dung-Tsa Chen, Ph.D.\*  
“Mixed effects models in negative exponential curve”.  
**Current Position:** Senior Member, H. Lee Moffitt Cancer Center, Fl.
- August, 1999, Chung-Chi Chang, Ph.D.\*  
“Analysis of recurrent failure time: a time-dependent Yule process approach”.

- May, 1999, Michael Johnson, Ph.D.  
“A comparison of Markov and generalized linear models of hospital mortality”.  
**Current Position:** Associate Professor, University of Houston, College of Pharmacy, TX.
- May, 1999, Dorothy Stowers, Ph.D.  
“Design and implementation of a multicriteria medical decision support system for diagnosis and treatment”.  
**Current Position:** Associate Professor, Venture College, Venture, CA.
- December, 1998, Anna Frolov, M.S.  
“Robust Adjustment to orthogonal regression estimators”.
- December, 1996, Linda DeFord, M.S.  
“Assessment of interrater agreement using a binomial based statistic: K(BIN)”
- August, 1995, Hai-An Hsu, Ph.D.  
“Logistic regression with incompletely observed binary covariates”.
- May, 1993, Rabih Elsouki, Ph.D.\*  
“Modeling the survival of T-cell lymphocytes using compound branching processes”.
- 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.**  
**Current Position:** Associate Professor, University of Houston, College of Pharmacy, TX.
- December, 1993, Tsai Su-jau Yang, M.S.  
“Stochastic model of transmission of Influenza”.  
**Current Position:** Biostatistician, Kaiser Permanente Inc. Los Angel, CA.