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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

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:

2003-Present Department of Biostatistics and Applied Mathematics, The University of Texas M.D. Anderson Cancer Center

1989-2003 Department of Biomathematics, The University of Texas M.D. Anderson Cancer Center

PUBLICATIONS:

Book:

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

Articles in Refereed Journals:

1. Li, Y., and **Chan, W.** (2006) "Analysis of longitudinal multinomial outcome data". *Biometrical Journal*. 48: 319-326.
2. **Chan, W.** and Peng, N. (2006) "Continuous time Markov chains on a system following an alternating renewal process" *Statistics & Probability Letters*. 76:362-368.
3. Symanski, E., Greeson, N., S. and **Chan, W.** (2006) "Evaluating measurement error in estimates of worker exposure assessed in parallel by personal and biological monitoring" *American Journal of Industrial Medicine*. (in Press)
4. 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 Outcome Research*. (in Press)
5. 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.
6. Roberts, R., Roberts, C., and **Chan, W.** (2006) "Ethnic differences in symptoms of insomnia among adolescents". *Sleep* 29:359-365.
7. 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.
8. Rivera, S., Vernon, S., Tiro, J., Coan, S., del Junco, D., **Chan, W** and Coker, A. (2006) "Test-retest Reliability of Self-Reported Mammography in Women Veterans" *Preventive Medicine*. 42: 320-326.
9. 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*". 106:1276-1285.

10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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*.
18. 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.
19. 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*.
20. 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.

21. 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.
22. 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.
23. Labiche, L., **Chan, W.**, Saldin, K., Morgenstern, L. (2002) "Sex and acute stroke presentation". *Annals of Emergency Medicine*. 40:453-460.
24. Taylor, W., **Chan, W.**, Cummings, S., Simmons-Morton, B., McPherson, S., SangiHaghpeykar, H., Pivarnik, J., Mueller, W., Detry, M., Huang, W., Johnson-Masotti, A. and Hsu, H. (2002), "Health growth: project description and baseline Findings". *Ethnicity and Disease*. 12:567-577.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.

32. 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.
33. 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.
34. Chen, L., Welsh, A. and **Chan, W.** (2001), "Estimators for the linear regression model based on Winsorized observations". *Statistica Sinica*. 11:147-172.
35. 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.
36. 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.
37. **Chan, W.** Kapadia, A. and Chuang, A. (2001), "A stochastic model of smoking behavior under a cessation program". *Biometrical Journal*. 43:53-62.
38. 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.
39. 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 stroke in a non-urban population: The TLL Temple Foundation Stroke Project". *Stroke*. 31:1925-1928.
40. Liehr, P., Meininger, J., Mueller, W., **Chan, W.**, Frazier, L., Reyes, I. (2000), "Psychometric Testing of the Adolescent Version of the Cook-Medley Hostility Scale". *Comprehensive Pediatric Nursing*. 23:103-116.
41. **Chan, W.** and Peng, N. (2000), "A minimum-cost strategy for cluster recruitment". *Biometrical Journal*. 42:877-886.
42. 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.

43. Symanski, E., Chang, C. and **Chan, W.** (2000), "Long-term trends on exposure to nickel aerosols". *American Industrial Hygiene Association Journal*. 61:324-333.
44. 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.
45. Carvajal, S., Parcel, S., Basen-Engquist, 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.
46. 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.
47. 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.
48. Feldman, H., Proshan, 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. Chen, L., **Chan, W.**, and Lee, T. (1997), "Tensor product polynomial splines". *Communications in Statistics: Theory and Methods*, 26:2093-2111.

54. Mazur, L., Yetman, R. and **Chan, W.** (1997), "Temperature comparisons with Four thermometer types". *Ambulatory Child Health*. 3: 21-26.
55. 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.
56. 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.
57. 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.
58. 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.
59. **Chan, W.**, Chuang, A., and Hardy, R. (1996), "Application of branching process under randon environment in analyzing ophthalmologic data". *Mathematical Modelling and Scientific Computing*. 6:766-771.
60. **Chan, W.** (1996), "Maximizing the probability of pest extinction on a stochastic pest-predator model". *Statistics & Probability Letters*. 20:265-270.
61. 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.
62. 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.
63. 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.
64. Mazur, L., Moyer, V., Lally, P., and **Chan, W.** (1996), "Evaluation of a lead screening program in Houston, Texas". *Texas Medicine*. 92:54-57
65. 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.

66. 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.
67. **Chan, W.**, Bartoszynski, R., and Pearl, D. (1993), "Queues with breakdowns and Customers discouragement". *Probability and Mathematical Statistics*. 14:77-87.
68. 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.
69. **Chan, W.** (1992), "A sum of ratios of combinations in sequential sampling". *Texas Journal of Science*. 44:362-363.
70. **Chan, W.**, Li, A., and Co, H. (1989), "Machine parameter selection for a stochastic flow system.". *IIE Transactions* 21:241-249.
71. 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. 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.
2. **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.
3. 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.
4. 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.

5. Hsu, H. and **Chan, W.**(1995), “Logistic regression with incompletely observed binary covariates” *Proceedings of Biometrics Section, Joint Statistical Meetings*. 219-224.
6. **Chan, W.** and Chuang, A. (1995), “A Markov model for longitudinal count data”. *Proceedings of Biometrics Section, Joint Statistical Meeting*. 355-360.

Technical Reports:

1. Bartoszynski, R., Buhler, W., **Chan, W.**, and Pearl, D. (1988) “Predation in an Environment with random disasters.” *Population Processes under the Influence of Independently Occurring Disasters*, Johannes Gutenberg-Universitat.
2. Li, A., **Chan, W.**, and Co, H. (1987) “Some observations on the optimal Material removal rate in unreliable metal cutting processes.” Tech. Memo., Dept. of O.R., C.W.R.U.

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.

ABSTRACTS/CONFERENCE PRESENTATIONS:

1. **Chan, W.**, Li, Y. and Yeh, H. “Analysis of longitudinal trinomial outcome through a surrogate variable” presented at Joint Statistical Meetings in August 2006.
2. 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.
3. Rountree, S., Waring, S., P., **Chan, W.**, Darby, E. and Doody, R. “Clinically presenting mild cognitive impairment: variable presentations and their outcomes”. Presented in The 10th International Conference on Alzheimer’s disease and Related Disorders in July, 2006.
4. **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.
5. Pavlik, V., Doody, R., Massman, P., **Chan, W.**, and Yeh, S. “Relationship of premorbid IQ and education to progression of Alzheme disease” presented at American Academy of Neurology Annual meeting in April, 2005.

6. Meininger, J., Liehr, P., Nguyen, T., **Chan, W.**, Mueller, W., Brosnan, C. And Dai, M. "Blood pressure dipping among adolescents" presented at American Psychosomatic Society annual meeting in March, 2005.
7. **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.
8. Mahmken, 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.
9. **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.
10. Lairson, D., **Chan, W.**, Newmark, G. "The demand for mammography screening among woman veterans: an empirical analysis" presented at the 4th World Congress of the International Health Economics Association in June, 2003.
11. Lairson, D., **Chan, W.**, Newmark, G. "The demand for mammography screening among woman veterans: an empirical analysis" presented at 3rd Houston Area Health Services and Outcomes Research Conference in November 2002.
12. 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.
13. Chen, D., Francis, D. and **Chan, W.** "Item response theory: an approach of Mixed models" presented at Joint Statistical Meetings in August 2001.
14. **Chan, W.**, Correa, A. and Kapadia, A. "Modeling a stochastic dynamic system with an application in health promotion" presented at Second Pacific Rim Conference on Mathematics, in January, 2001.
15. Wu, J., Fung, M., **Chan, W.** and Lairson. "Cost-effectiveness analysis of reminder intervention for the enhancement of mammography compliance in the US population" presented at annual meeting of American Public Health Association in November, 2000.
16. **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.

17. Pandey, D., Labarthe, D., Goff, D., **Chan, W.**, Ramsey, D., Chan, F., Nichaman, M. (1998). "Incidence of Myocardial Infarction: 6-Year Increases in the Corpus Christi Heart Project (CCHP)" *Circulation*. 97(8):820.
18. Tran, K., Vogel, R., D'Souza, R., Nor, J., **Chan, W.** and Bretz, W. "Effect of a Chlorhexidine Varnish on dentinal Ca²⁺/PO₃ levels after demineralization." Presented in Association of American Dental Research in 1998.
19. Pandey, D., Ramsey, D., Goff, D., **Chan, W.**, Chan, F., Labarthe, D., Nichaman, M. (1997). "Out of Hospital "incident" Coronary Death Declines in Mexican Americans but in Non-Hispanic Whites: The Corpus Christi Heart Project 1990-1993" *Circulation*. (Suppl.), 96(8):I-157.
20. Pandey, D., Goff, D., Ramsey, D., **Chan, W.**, Labarthe, D., Nichaman, M. (1997) Mexican Americans are not at lower risk of coronary death than Non-Hispanic whites: The Corpus Christi Heart Project" *Can. J. Cardiol*. 13(Suppl B): 239B.
21. Napoli, K., Wang, M., **Chan, W.** and Kahan, B. "Utility of Fluorescence Polarization immunoassay for analysis of cyclosporine in animal tissues". Presented at 4th International Congress of Therapeutic Drug Monitoring and Clinical Toxicology in September, 1995.
22. Hsu, H. and **Chan, W.** "Logistic regression with incompletely observed binary Covariates" presented at Joint Statistical meetings in August, 1995.
23. **Chan, W.** and Chuang, A. "A Markov model for longitudinal count data" presented at Joint Statistical Meetings in August, 1995.
24. **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.
25. Hsu, H., **Chan, W.**, Goff, D., Ortiz, C., Chan, M. and Nichaman, M. "Analysis Of logistic regression with missing binary covariates" presented at Society For Epidemiologic Research, in June, 1995.
26. 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.
27. **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.

28. Reyna, R., Meshack, A., Goff, D., **Chan, W.**, Ramsey, D. Ortiz, C., Nichaman, M., and Larbarthe, D. "Difference in reported symptoms of acute myocardial infarction in biethnic community: The Corpus Christi Heart Project". Presented at 35th Annual Conference on Cardiovascular Epidemiology and Prevention, American Heart Association, March, 1995.
29. Meininger, J., Liehr, P., **Chan, W.**, Mueller, W., Richards, P. and Chandler, P.S. "Predicators of 24-hours ambulatory blood pressure in adolescents: a comparison of high and low reactors" presented at Society for Behavior, Medicine in March, 1995.
30. Mueller, W., Meininger, J., Liehr, P., **Chan, W.**, and Chandler, P.S. "Adolescent blood pressure and anger: association of cardiovascular risk variables with gender, maturity, conivity(fat distribution) and fatness" presented at Society for Behavior Medicine in March, 1995.
31. Mueller, W., Meininger, J., Liehr, P., **Chan, W.**, and Chandler, P.S. "Conicity: A new index of body fat distribution. What does it tell us?" presented at Human Biology Council, 1995.
32. Ferris, M., Griswold, W., **Chan, W.**, Diaz-Conzalez, V. and Chou, P. "Human Leucocytb antigen (HLA) as a marker for Vesico-ureteral reflux (VUR) in chronic renal failure" presented at The American Society of Nephrology in October, 1994.
33. Smolensky, M., **Chan, W.**, Thomas, V., Portman, R. and Kahan, B. "Wrist actigraphy-documented sleep disorders of kidney transplant patients". presented at 6th International Conference of Chronopharmacology and Chronotherapeutics in July, 1994.
34. Herman, D. **Chan, W.**, and Smolensky, M. "Twenty-four-hour wrist actigraphy (WA) for evalutation of nocturnal sleep of pain patients" presented at 6th International Conference of chronopharmacology and Chronotherapeutics in July, 1994.
35. Thomas, V., Smolensky, M., Portman, R. and **Chan, W.** "Effect of 24-hour Ambulatory blood pressure monitoring (ABPM) on sleep of children and adults" presented at 6th International Conference of Chronopharmacology and Chronotherapeutics in July, 1994.
36. Portman, R., Thomas, V., **Chan, W.**, and Kahan, B. "Lack of correletion of Blood pressure (BP) with activity in renal transplant patients (RTP)" presented at The American Society of Nephrology 26th Annual Meeting in November, 1993.

37. 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.
38. Thomas, V., **Chan, W.**, Portman, R. "Absence of correlation of blood pressure (BP) with activity determined by ambulatory monitoring in renal transplant patients" presented at 21st International Society of Chronobiology annual meeting in July, 1993.
39. **Chan, W.** Kapadia, A. Johnson, M. "A stochastic model of smoking status Cessation program" presented at ENAR annual meeting in March, 1993.
40. **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.
41. **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.
42. **Chan, W.** "Optimal pest control for a stochastic pest-predator model." Presented at Joint Statistical Meetings in August, 1986.

INVITED PRESENTATIONS:

1. **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.
2. **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.
3. **Chan, W.** and Peng, N. "Continuous time Markov chains on cyclic stages" presented at 10th international Symposium on Applied Stochastic Models and Data Analysis (Invited Session), in June, 2001.
4. **Chan, W.** "Population processes under random environments" presented at Department of Statistics, National Chung-Hsin University, Taiwan in July, 1994.
5. **Chan, W.** "Queues with breakdowns and customers discouragement" presented in Institute of Statistics, National Chiao-Tung University, Taiwan in June, 1994.
6. **Chan, W.** "Examples of statistical consulting in the medical community" Presented at Department of Statistics, University of Michigan in September, 1992.

SPONSORED RESEARCH:

As Principal Investigator:

Current:

1. "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: \$18,064.
2. "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.
3. "REACT Intervention", Funded by Genetech Inc. Duration: 1/00 – present, Total Budget: \$11,963.94.

Past:

4. "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. (Direct Cost: \$5,666).
5. "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. "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.
2. "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.
3. "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.
4. "Trial of Interventions to Increase Utilization of Colorectal Cancer Screening & Promote Informed Decision" Funded by Center for Disease Control and Prevention.

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PI: Dr. Maria Fernandez, Total Budget: \$275,270.00, Time Release: 3%, Duration: 7/05-9/08.

5. "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.

Past:

6. "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.
7. "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.
8. "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.
9. "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.
10. "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.
11. "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.
12. "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.
13. "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.
14. "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.

15. "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.
16. "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.
17. "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.
18. "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.
19. 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.

TEACHING EXPERIENCE:

At UTSPH:

- Design and Analysis of Longitudinal Data or Linear Mixed Models (PH1998 or PH 1918, Spring 1995 and Fall of 1996, 1998, 2000, 2002 and Spring 2004)^a
- Generalized Linear Models (PH 1916, Spring of 1992, 1994, 1996 and 2000)
- Intermediate Biometry I (PH1725, Fall of 1992^c, 1994, 1995^b, 1996 and 1998)
- Intermediate Biometry II (PH1726, Spring of 1993 and 1995)^b
- International and Family Health Seminar (PH 5613, Fall and Spring of 1999 and 2000)
- Linear Models (PH 1915, Fall of 1991, 1993, 1995^b, 1997, 1999, 2001 and 2003)
- Statistical Theory of Biometry I (PH1910, Fall of 1989^c, 1990^c and 2005)
- Statistical Theory of Biometry II (PH1911, Spring of 1990 and 1991)^c
- Statistics for Medical Research (PH 1998, Fall of 1989)^c
- Stochastic Processes I (PH1950, Fall of 1990^c, 1992^c 2002 and 2004)
- Stochastic Processes II (PH1951, Spring of 1991^c, 1993, 1997, 1999, 2001 and 2003 and 2005)

^a co-taught with 30%-50% effort

^b co-taught with 50% effort and served as lead instructor

^c co-taught with 50% effort

At Other Institutions:

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

INTERNAL SERVICE:

1. Member of Awards Committee, University of Texas – Houston. 2001- present.
2. Member of Search Committee for Brownsville Satellite Program's 10-12 Faculty positions, School of Public Health, University of Texas – Houston. 2000-2001.
3. Financial Aids Committee, School of Public Health, University of Texas – Houston. Chair: 1998- 2000 and Member: 1996-1998.
4. Member of Admission Committee, Program in Biometry, School of Public Health, University of Texas – Houston. 1990-present.
5. Nominating Committee, University of Texas – Houston. Chair: 1998-1999 and Member: 1997-1999.
6. Member of Multi-cultural Affairs Committee, University of Texas – Houston. 1992-1993 and 1996-1998.
7. Member of Admission Committee (representing International and Family Health), School of Public Health, University of Texas – Houston. 1993-1996.
8. Member of Peer Review Committee, School of Public Health, University of Texas – Houston. 1995.

PROFESSIONAL SERVICE:

- Grant Reviewer for National Medical Research Council, Government of Singapore, 2005.
- Referee for Value in Health, 2005, 2006.
- 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 36th Annual meeting, 2000.

- Referee for Chronobiology International, 1990, 1993, 1994, 1995, 1997, 1998, 1999 and 2001.
- Member of Program Committee, The 11th 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.
- 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 - Present.
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 - Present.
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.

HONORS:

- Nominee for the President's Award for mentoring Women, 2000. The Committee on the Status of Women, University of Texas-Houston.
- Peer Recognition for Outstanding Scholarship, 1996, 1997, 1998, 1999, 2000 and 2001. University of Texas-Houston.
- FIP Scholarship Incentive Award, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002 and 2003 School of Public Health, University of Texas-Houston.
- FIP Research Incentive Award, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003 and 2004. School of Public Health, University of Texas-Houston.
- Dean's Excellence Award, 1995 and 2002, University of Texas-Houston.
- Finalist for Most Outstanding Teacher Award, 1993, 1994, 1995, 1996, 1998 and 2003, School of Public Health, University of Texas-Houston.
- Recipient of Best Recitation Instructor Award, 1983, Department of Statistics, Ohio State University.
- Nominee for Graduate Teaching Award, 1979. Ohio State University.

THESIS AND DISSERTATION SUPERVISION:

- 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”.
- May, 2005, Nancy Wuan-Szu Wang, Ph.D.
“Analysis of outliers for logistic regression based on predicted probability and Winsorized observations”.
- May, 2005, Yen-Peng Li, Ph.D.
“Longitudinal categorical data analysis: a continuous-time Markov chain approach”.
- May, 2005, Hyung Woo Kim, Ph.D.
“Bayesian dual threshold phase II design with Dirichlet process”.
- August, 2004, Lei Lei, Ph.D.
“Analyze longitudinal outcome data as a transformation of Poisson process”.
- 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”.
- December, 2003, Michelle Detry, Ph.D.
“A logistic regression model with misclassification in the outcome variable and categorical covariate”.
- 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”.
- May, 2003, Tony Lam, Ph.D.
“Power and sample size for community intervention trial with binary outcome”.
- 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.

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“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”.
- August, 2000, Arlene Correa, Ph.D.
“Modeling a health promotion campaign Process”.
- May, 2000, Dung-Tsa Chen, Ph.D.*
“Mixed effects models in negative exponential curve”.
- 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”.
- May, 1999, Dorothy Stowers, Ph.D.
“Design and implementation of a multicriteria medical decision support system for diagnosis and treatment”.
- 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”.
- December, 1993, Tsai Su-jau Yang, M.S.
“Stochastic model of transmission of Influenza”.