CURRICULUM VITAE

Kwun Chuen Gary Chan, Ph.D.
2/24/2024

1. **Biographical Information**

   Department of Biostatistics
   University of Washington
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2. **Education**

   The University of Hong Kong, B.Sc., Actuarial Science (First Class Honors), June 2004
   Johns Hopkins University, Ph.D., Biostatistics, September 2008

3. **Licensure:** not applicable

4. **Professional Positions**

   Professor (with tenure), Department of Biostatistics, University of Washington, 2019-present
   Professor, Department of Health Systems and Population Health, University of Washington, 2021-present
   Adjunct Professor, Department of Statistics, University of Washington, Seattle, 2021-present
   Affiliate Investigator, Public Health Sciences Division, Fred Hutchinson Cancer Center, 2022-present
   Affiliate Investigator, Vaccine and Infectious Disease Institute, Fred Hutchinson Cancer Research Center, 2010-2021
   Associate Director, Methodology Core, UW Behavioral Center for HIV (BIRCH), University of Washington, 2021-present

Associate Director, National Alzheimer's Coordinating Center, University of Washington, 2019-present

Professor, Department of Health Services, University of Washington, 2019-2021

Affiliate Faculty, eScience Institute, University of Washington, 2019-present

Affiliate Faculty, Center for Studies in Demography and Ecology, University of Washington, 2016-present

Associate Professor (with tenure), Department of Biostatistics, University of Washington, 2014-2019

Associate Professor (with tenure), Department of Biostatistics, University of Washington, 2014-2019

Assistant Professor, Department of Biostatistics, University of Washington, 2008-2014

Assistant Professor, Department of Health Services, University of Washington, 2008-2014

5. Honors, Awards, Scholarships

Dean's Honors List, 2002, 2003

AIA Foundation Scholarship, 2003

Kai Chung Tong Scholarship, 2003

John Culver Wooddy Scholarship, 2003

Sir Edward Youde Memorial Scholarship, 2004

Departmental scholarship, Department of Biostatistics, Johns Hopkins University, 2004-2008

The Glaxo SmithKline Award, 2005

Distinguish Student Paper Award, International Biometric Society Eastern North American Region, 2008

The Margaret Merrell Award, 2008

Inducted Member, Phi Beta Kappa, 2009

Inducted Member, Delta Omega, 2009

Best Reviewer, Pharmacoepidemiology and Drug Safety, 2014

Elected Fellow, American Statistical Association, 2020

Elected Fellow, Institute of Mathematical Statistics, 2021

6. Professional Activities

Associate Editor for

International Journal of Biostatistics (2013-)

BMC Health Services Research (2016-)

Biostatistics and Epidemiology (2016-2023)

Journal of American Statistical Association, Theory and Methods Section (2023-)

Journal of American Statistical Association, Review Section (2023-)

Referee for

Advances and Applications in Statistical Science, American Journal of Public Health, Annals of Applied Statistics, Annals of Epidemiology, Annals of Statistics, Australian & New Zealand Journal of Statistics, Bayesian Analysis, Bernoulli, BMC Health Services Research, BMC Medical Research Methodology, BMJ Open, Brazilian Journal of Probability and Statistics, Biometrical Journal, Biometrics, Biometrika, Biostatistics, Biostatistics and Epidemiology, Canadian Journal of Statistics, Circulation: Cardiovascular quality and outcomes, Clinical Infectious Disease, Communications in Statistics – Theory and Methods, Communications in Statistics – Simulation and Computation, Computational Statistics and Data Analysis, Demography, Electronic Journal of Statistics, Health Services and Outcome Research Methodology, Health Services Research Journal, International Journal of Biostatistics, Insurance: Mathematics and Economics, Journal of Alzheimer's Disease, Journal of American Geriatrics Society, Journal of American Medical Association, Journal of the American Medical Informatics Association, Journal of American Statistical Association, Journal of Biopharmaceutical Statistics, Journal of Casual Inference, Journal of Clinical Epidemiology, Journal of Econometrics, Journal of Machine Learning Research, Journal of the American Medical Association, Journal of the National Comprehensive Cancer Network, Journal of the Royal Statistical Society Series A: Statistics in Society, Journal of the Royal Statistical Society Series B: Methodological, Journal of the Royal Statistical Society Series C: Applied Statistics, Journal of Statistical Planning and Inference, Lifetime Data Analysis, Medical Care, Medical Decision Making, Neurocomputing, Observational Studies, Pharmacoepidemiology and Drug Safety, Population Health Metrics, PLOS One, Scandinavian Journal of Statistics, Science China Mathematics, Stat, Statistics in Bioscience, Statistics and Probability Letters, Statistics in Medicine, Statistica Sinica, The American Statistician, Value in Health.

Professional Societies

    Member, American Statistical Association

    Member, International Biometric Society

    Member, Institute of Mathematical Statistics

Local Arrangements Chair for WNAR/IMS annual meeting 2010

Grant reviewer for

    National Security Agency, 2014, 2015

    National Science Foundation, 2018, 2021

    National Institutes of Health, 2018, 2023

    Medical Research Council, UK Research and Innovation, 2023

    Hong Kong Research Grant Council, 2023

Data Monitoring committee

    Statistician, Investigation of Rifampin to Reduce Pedal Amputations for Osteomyelitis in Diabetics, Veteran Affairs Office of Research and Development, 2018-

Organizing committee member

    COPSS-NISS COVID19 data science seminar series, 2020-2021

President

    Western North American Region (WNAR) of the International Biometrics Society, 2022 (President-elect, 2021 and Past-president, 2023)

7.   Bibliography

a.   Refereed Research Articles

1.   **Chan KCG** and Yang H (2004) Ruin problems under feedback model with random interest. Advances and Applications in Statistics 4(3): 379-395

2.   **Chan KCG** and Yang H (2005) Sensitivity analysis on ruin probabilities with heavy-tailed claims. Statistical Methodology 2(1): 59-63

3.   **Chan KCG** and Yang H (2006) Upper bounds for ruin probability under time series models. Probability in the Engineering and Informational sciences 20(3): 527-540

4.   Kozauer NA, Mielke MM, Chan KCG, Rebok GW and Lyketsos CG (2008) Apolipoprotein E genotype and lifetime cognitive decline. International Psychogeriatrics 20(1): 109-123

5.   Bazzaro M, Lin Z, Santillan A, Lee MK, Wang MC, **Chan KCG**, Bristow RE, Mazitschek R, Bradner J, Roden RB (2008). Ubiquitin proteasome system stress

underlies synergistic killing of ovarian cancer cells by bortezomib and a novel HDAC6 inhibitor. Clinical Cancer Reseach 14(22): 7340-7347.

6. Lin Z, Bazzaro M, Wang MC, **Chan KCG**, Peng S, Roden RB (2008). Combination of proteasome and HDAC inhibitors for uterine cervical cancer treatment. Clinical Cancer Reseach 15(2): 570-577.

7. Mielke MM, Kozauer NA, Chan KCG, Geoerge M, Toroney J, Zerrate M, Bandeen-Roche K, Wang M-C, van Zijl P, Pekar J, Mori S, Lyketso CG, Albert M (2009) Regionally-Specific Diffusion Tensor Imaging in Mild Cognitive Impairment and Alzheimer's Disease. Neuroimage 45: 47-55.

8. Tsai-Turton M, Santillan A, Lu D, Bristow RE, **Chan KCG**, Shih IeM, Roden RB (2009). p53 autoantibodies, cytokine levels and ovarian carcinogenesis. Gynecologic oncology 114(1): 12-17.

9. **Chan KCG** and Wang MC (2010). Backward Estimation of Stochastic Processes with Failure Events as Time Origins. Annals of Applied Statistics 4(3): 1602-1620.

10. **Chan KCG** (2012). Uniform Improvement of Empirical Likelihood for Missing Response Problem. Electronic Journal of Statistics 6: 289-302.

11. **Chan KCG** and Wang MC (2012). Estimating incident population distribution from prevalent data. Biometrics 68 (2): 521-531.

12. **Chan KCG** (2012). Simple efficient bias corrected instrumental variable estimator for randomized trials with noncompliance. Contemporary Clinical Trials 33(4): 786-793.

13. **Chan KCG**, Chen YQ and Di C (2012). Proportional Mean Residual Life Model for Censored Length-biased Data. Biometrika 99 (4): 995-1000.

14. Keeney B, Wickizer T, Turner J, Fulton-Kehoe D, **Chan KCG** and Franklin G (2013). Early Predictors of Occupational Back Injury: Results from a Prospective Study of Workers in Washington State. Spine 38 (2): 178-187.

15. **Chan KCG** (2013). Nuisance parameter elimination for proportional likelihood ratio models with nonignorable missingness and random truncation. Biometrika 100 (1): 269-276.

16. Keeney B, Fulton-Kehoe D , Wickizer T, Turner J, **Chan KCG** and Franklin G (2013). Clinically significant weight gain one year after occupational back injury. Journal of Occupational and Environmental Medicine 55 (3): 318-324.

17. Keeney B, Turner J, Fulton-Kehoe D , Wickizer T, **Chan KCG** and Franklin G (2013). Early Predictors of Lumbar Spine Surgery After Occupational Back

Injury: Results from a Prospective Study of Workers in Washington State. Spine, 38(11): 953-964.

18. **Chan KCG** (2013). Survival analysis without survival data: connecting length-biased and case-control data. Biometrika, 100 (3): 764-770.

19. Kneeshaw-Price SH, Saelens BE, Sallis JF, Glanz K, Frank LD, Kerr J, Hannon PA, Grembowski DE, **Chan KCG**, & Cain KL (2013). Children's objective physical activity by location: Why the Neighborhood Matters. Pediatric Exercise Science 25(3): 468-486.

20. **Chan KCG** (2013). A simple multiple robust estimator for missing response problem. Stat 2(1): 143-149.

21. Huang D, **Chan KCG** and Young B. (2013). Poor Oral Health and Quality of Life in U.S. Older Adults with Diabetes. Journal of the American Geriatrics Society 61 (10): 1782-1788.

22. Jang J, **Chan KCG,** Huang, H. and Sullivan, S.D. (2013). Trends in cost, health status and functional outcomes among adult and pediatric patients with asthma: 2000-2009. Annals of Allergy, Asthma and Immunology 111(6): 516-522.

23. Kohn MJ, Bell JF, Grow MG and **Chan KCG** (2014). Food insecurity, food assistance and weight status in US youth: New Evidence from NHANES 2007-08. Pediatric Obesity 9(2): 155-156.

24. Basu A and **Chan KCG** (2014). Can We Make Smart Choices Between OLS and Contaminated IV Methods? Health Economics 23(4): 462-472.

25. **Chan KCG** (2014). A note about the identifiability of causal effect estimates in randomized trials with non-compliance. Statistical Methodology 16: 68-71.

26. **Chan KCG** and Yam SCP (2014). Oracle, multiple robust and multipurpose calibration in missing response problem. Statistical Science 29 (3), 380-396.

27. Dai JY, **Chan KCG** and Hsu L (2014). Testing concordance of instrumental variable effects in generalized linear models with application to Mendelian randomization. Statistics in Medicine 33(23): 3986-4007.

28. Chen B, Zhou XHA and **Chan KCG**. (2015) Pseudo-empirical likelihood based method using calibration for longitudinal data with dropout. Journal of Royal Statistical Society, Series C 64 (1):157-174.

29. **Chan KCG** and Qin J (2015). Rank-based testing of equal survivorship based on data with or without prospective follow-up. Biostatistics, 16 (4): 772-784.

30. Kneeshaw-Price SH, Saelens BE, Sallis JF, Frank LD, Grembowski DE, Hannon PA, Smith NL and **Chan, KCG** (2015). Neighborhood crime-related safety and its relation to children's physical activity. Journal of Urban Health 92(3): 472-489.

31. *Yee L and **Chan KCG** (2015). Nonparametric inference for time-dependent incremental cost-effectiveness ratios. Statistics in Medicine, 34 (30): 4057-4069.

32. Reiger S, Harris JR, **Chan KCG,** Oqueli HL and Kohn MA (2015). Community-Driven Hypertension Treatment Group in Rural Honduras. Global Health Action 8: 28041.

33. **Chan KCG**, Yam SCP and Zhang Z (2016). Globally efficient nonparametric inference of average treatment effects by empirical balancing calibration weighting. Journal of Royal Statistical Society, Series B, 78 (3): 673-700.

34. **Chan KCG** (2016). Instrumental variable additive hazards models with exposure-dependent censoring. Biometrics 72 (3): 1003-1005.

35. Park S, **Chan KCG** and Williams E (2016). Gain of employment and perceived health status among previously unemployed persons: evidence from a longitudinal study in the United States. Public Health 133: 83-90.

36. **Chan KCG** and Qin J (2016). Nonparametric maximum likelihood estimation of the multi-sample Wicksell's corpuscle problem. Biometrika, 103 (2): 253-271.

37. Hannon PA, Hammerback K, Allen CL, Parrish AT, **Chan KCG**, Korn MJ, McTeague S, Beresford SAA, Helfrich CD, Harris JR (2016). HealthLinks Randomized Controlled Trial: Design and Baseline Results. Contemporary Clinical Trials 48: 1:11.

38. Shrestha A, Koju RP, Beresford SAA, **Chan KCG,** Karmacharya BM and Fitzpatrick, AL (2016). Food Patterns Measured by Principal Component Analysis and Obesity in the Nepalese Adult. Heart Asia 8(1): 46-53.

39. **Chan KCG** and Wang M-C (2017). Modeling and estimating the terminal behavior of recurrent marker processes before failure events. Journal of American Statistical Association, 112 (517): 351-362.

40. **Chan KCG** (2017). Acceleration of Expectation-Maximization algorithm for length-biased right-censored data. Lifetime data analysis, 23 (1): 102-112.

41. *Yee LM and **Chan KCG** (2017). Nonparametric inference for the joint distribution of recurrent marked variables and recurrent survival time. Lifetime Data Analysis, 23 (2): 207-222.

42. Di C, **Chan KCG**, Zheng C and Liang KY. (2017) Testing homogeneity in semiparametric mixture case-control models. Communications in Statistics – Theory and Methods, 46 (18): 9092-9100.

43. Hannon PA, Helfrich CD, **Chan KCG**, Allen CL, Hammerback K, Kohn MJ, Parrish AT, Weiner BJ and Harris JR. (2017) Development and pilot-test of the Workplace Readiness Questionnaire, a theory-based instrument to measure small workplaces' readiness to implement wellness programs. American Journal of Health Promotion 31 (1): 67-75.

44. Blanar LA, Sears JM, **Chan KCG**, Thompson HJ, Crane PK and Ebel, BE. (2017) Relating older workers' injuries to the mismatch between physical ability and job demands. Journal of Occupational and Environmental Medicine, 59 (2): 212-221.

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46. Shrestha A, Koju RP, Beresford SAA, **Chan, KCG**, Connell FA, Karmacharya BM, Shrestha P, Fitzpatrick AL (2017) Reproducibility and relative validity of food group intake in a food frequency questionnaire developed for Nepalese diet. International Journal of Food Science and Nutrition, 68 (5): 605-612.

47. Randall I, Maynard C, **Chan KCG**, Devine B, Johnson C. (2017) Assessing the effect of the VA PCMH model on utilization patterns among Veterans with PTSD. American Journal of Managed Care, 23 (5): 291-296.

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49. *Huang M-Y and **Chan KCG.** (2017) Joint sufficient dimension reduction and estimation of conditional and average treatment effects. Biometrika, 104(3): 583-596.

50. Cai Q, Wang M-C and **Chan KCG.** (2017) Joint Modeling of Longitudinal, Recurrent Events and Failure Time Data for Survivors' Population. Biometrics, 73(4): 1150-1160.

51. Badon SE, Littman AJ, **Chan KCG**, Williams MA, Enquobahrie DA. (2017) Trajectories of maternal leisure time physical activity and sedentary behavior during adolescence to young adulthood and offspring birthweight. Annals of Epidemiology 27(11), 701–707.

52. *Sun Y, **Chan KCG** and Qin J. (2018) Simple and fast overidentified rank estimation for right-censored length-biased data. Biometrics, 74(1): 77-85.

53. Wong RKW and **Chan KCG.** (2018) Covariate functional balancing for observational studies. Biometrika, 105 (1): 199-213.

54. Badon SE, Littman AJ, **Chan KCG**, Williams MA, Enquobahrie DA. (2018) Associations of maternal light/moderate leisure time walking and yoga with offspring birth size. Journal of Physical Activity and Health 15(6):430-439.

55. Bensley, K, McGinnis KA, Fiellin DA, Gordon AJ, Kraemer KL, Bryant KJ, Edelman EJ, Crystal S, Gaither JR, Korthuis PT, Marshall BDL, Ornelas IJ, **Chan KCG**, Dombrowski JC, Fortney JC, Justice AC, Williams EC. (2018) Racial/Ethnic Differences in the Association between Alcohol Use and Mortality Among Men Living with HIV. Addition Science and Clinical Practice 13:2.

56. Blanar L, Hansen RN, **Chan KCG**, Sears, JM, Thompson HJ, Crane, PK, Ebel BE. (2018) Diagnosed dementia and the risk of motor vehicle crash among older drivers. Accident Anaylsis and Prevention 113: 47-53.

57. Helfrich CD, Kohn MJ, Stapleton A, Allen CL, Hammerback KE, **Chan KCG**, Parrish AT, Ryan D, Weiner BJ, Harris JR and Hannon PA. (2018) Readiness to Change Over Time: Change Commitment and Change Efficacy Over Time in a Workplace Health-Promotion Trial. Frontiers in Public Health, 6:110.

58. **Chan KCG**, Ling HK, Sit T. and Yam, S. C. P. (2018) Estimation of a monotone density in s-sample biased sampling models. Annals of Statistics, 46 (5): 2125-2152.

59. Knerr S, Ceballos RM, **Chan KCG,** Beresford S, Bowen D. (2018) Women's beliefs about what causes obesity: variation by race/ethnicity and acculturation in a Washington State sample. Ethnicity and Health, in press.

60. Blanar L., Ebel, BE, Larson, EB, Sears JM, Thompson, HJ, **Chan KCG**, Crane, P.K. (2018) Cognitive decline and older driver crash risk. Journal of the American Geriatrics Society, 66 (6): 1075-1081.

61. Badon SE, Littman AJL, **Chan KCG**, Williams MA, Enquobahrie DA. (2018) Maternal sedentary behavior during pre-pregnancy and early pregnancy and mean offspring size: A cohort study. BMC Pregnancy and Childbirth, 18: 267.

62. *Huang, M-Y and **Chan, KCG.** (2018) Nonparametric estimation of continuous treatment effect function with adaptive reduction in confounder dimensions. Journal of Multivariate Analysis, 168: 48-62.

63. Badon SE, Littman AJ, **Chan KCG**, Williams MA, Enquobahrie DA. (2018) Physical activity and epigenetic biomarkers in maternal blood during pregnancy. Epigenomics, 10(11):1383-1395.

64. Bensley KM, McGinnis KA, Fortney J, **Chan KCG**, Dombrowski JC, Ornelas I, Edelman EJ, Goulet J , Satre D, Justice AC, Fiellin DA and Williams EC.

(2019) Patterns of Alcohol use across urban, large rural, and small rural communities among patients living with HIV. Journal of Rural Health, 35 (3): 341-353.

65. Basu A, Sohn M-W, Bartle B, **Chan KCG**, Guihan M, Cooper J, Huang E. (2019) Development and validation of the real-world progression in diabetes (RAPIDS) model. Medical decision making, 39 (2): 137-151.

66. *Gao F and **Chan KCG**. (2019) Semiparametric Regression Analysis of Length-Biased Interval-Censored Data. Biometrics, 75 (1): 121-132.

67. Xu DR, Hu M, He W, Liao J, Cai Y, Sylvia S, Hanson K, Chen Y, Pan J, Zhou Z, Zhan N, Tang C, Wang X, Rozelle S, Wang H, **Chan KCG**, Melipillan ER, Zhou W, Gong W. (2019) Assessing Quality of Primary Health Care in 7 Chinese Provinces with Unannounced Standardized Patients: Protocol of a Cross-Sectional Survey. BMJ Open, 9:e023997.

68. Bensley KM, Fortney J, **Chan KCG**, Dombrowski JC, Ornelas I, Rubinsky AD, Lapham GT, Glass JE and Williams EC. (2019) Differences in receipt of alcohol-related care across rurality among VA patients living with HIV and unhealthy alcohol use. Journal of Rural Health, 35(3): 341-353.

69. Perales J, Gauthreaux K, Flatt J, Teylan MA, Resendez J, Kukull W, **Chan KCG**, Burns JM and Vidoni E. (2019) Risk of dementia and mild cognitive impairment among older adults in same-sex relationships. International Journal of Geriatric Psychiatry, 34 (6): 828-835.

70. Beresford, S., Bowen, D., Albano, D., Kuniyuki, A., **Chan, KCG**, Littman, A., Patrick, D. and Barrington, W. (2019) Relationship of multiple socioeconomic status measures to obesity in middle aged women. International Journal of Women's Health and Wellness, 5:090.

71. Kava CM, Harris JR, **Chan KCG**, Kohn MJ, Parrish AT, Hannon PA. (2019) Tabacco evidence-based practice implementation and employee tobacco-related outcomes at small and low-wage worksites. Journal of Environmental and Occupational Medicine, 61(7): e312-e316.

72. Wartko PD, Dublin S, Weiss NS, Mueller BA, Enquobahrie D, **Chan KCG,** Stephenso-Famy A. (2019) Antidepressant continuation in pregnancy in relation to risk of gestational diabetes. Pharmacoepidemiology and drug safety, 28 (9): 1194-1203.

73. Hannon PA, Hammerback J, Kohn MJ, Kava CM, **Chan KCG**, Parrish AT, Helfrich CD, Mayotte C, Beresford SA, Harris JR. (2019) Disseminating evidence-based interventions in small, low-wage worksites: a randomized controlled trial in King County, Washington (2014-2017). American Journal of Public Health, 109 (12): 1739-1746.

74. *Huang, M-Y and **Chan, KCG** (2020) Sufficient dimension reduction with simultaneous estimation of effective dimensions for censored survival data. Statistica Sinica 30: 1285-1311.

75. Weintraub S, Teylan M, Rader B, **Chan KCG**, Bollenback M, Kukull WA, Coventry C, Rogalski E, Bigio E and Mesulam M-M. (2020) ApoE is a correlate of phenotypic heterogeneity in Alzheimer's disease in a national cohort analysis. Neurology 94 (6): e607-e612.

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77. Han F, Bonnett Y, Brenowitz WD, Teylan MA, Besser LM, Chen Y-C, **Chan KCG**, Cao K, Kukull WA, Zhou XHA, Gao Y. (2020) Estimating associations between antidepressant use and incident mild cognitive impairment in older adults with depression. Plos One 15(1): e0227924.

78. Shahrir S, Crothers K, McGinnis K, **Chan KCG**, Baeten JM, Wilson S, Butt AA, Pisani MA, Baldassarri S, Justice A, Williams EC. (2020) Receipt and Predictors of smoking cessation pharmacotherapy among veterans with and without HIV. Progress in Cardiovascular Diseases 63(2): 118-124.

79. Gauthreaux K, Bonnett TA, Besser LM, Brenowitz WD, Teylan M, Mock C, Chen Y-C, **Chan KCG**, Keene C. D., Zhou XHA, Kukull WA. (2020) Concordance of clinical Alzheimer diagnosis and neuropathological features at autopsy. Journal of Neuropathology & Experimental Neurology 79(5): 465-473.

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81. Badon SE, Littman AJ, **Chan KCG**, Williams MA, Enquobahrie DA. (2020) Leisure time physical activity, sedentary time in pregnancy, and infant weight at approximately 12 months. Women's Health Reports 1(1): 123-131.

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83. Brown M, Harris JR, Hammerback K, Kohn MJ, Parrish AT, **Chan KCG**, Ornelas IJ, Helfrich CD, Hannon PA. (2020) Development of a Wellness

Committee Implementation Index for Workplace Health Promotion Programs in Small Businesses. American Journal of Health Promotion 34(6):614-621.

84. Dodge HH, Wakim N, Gefen T, Teylan M, **Chan KCG**, Kukull W, Goldstein FC, Salmon D, Mungas D, Morris J, Weintraub S. (2020) Differentiating Among Stages of Cognitive Impairment in Aging: Version 3 of the Uniform Data Set (UDS) Neuropsychological Test Battery and MoCA Index Scores. Alzheimer's & Dementia: Translational Research & Clinical Interventions, 6(1):e12103.

85. Perales-Puchalt J, Gauthreaux K, Shaw A, McGee JL, Teylan MA, **Chan KCG**, Rascovsky K, Kukull WA, Vidoni ED. (2021) Risk of mild cognitive impairment among older adults in the United States by ethnoracial group. International Psychogeriatrics 33(1):51-62.

86. Brown MC, Kava C, Bekemeier B, Ornelas I, Harris J, **Chan KCG**, Robertson M, Hammerback K, Hannon P. (2021) Local health departments' capacity for chronic disease prevention partnerships with employers: comparison of rural, micropolitan and urban contexts. Journal of Public Health Management and Practice 27(5): E183-E188.

87. Wartko PD, Weiss NS, Enquobahrie DA, **Chan KCG**, Stephenson-Famy A, Mueller BA, Dublin S. (2021) Maternal gestational weight gain in relation to antidepressant continuation in pregnancy. American Journal of Perinatology, 38 (13): 1442-1452.

88. Kava CM, Passey D, Harris JR, **Chan KCG**, Hannon P. (2021) The Workplace Support for Health Scale: Reliability and Validity of a Brief Scale to Measure Employee Perceptions of Wellness. American Journal of Health Promotion 35(2):179-185.

89. Carlo AD, **Chan KCG**, Arao R, Vredevoogd M, Fortney J, Powers D, Russo J, Unützer J. (2021) Assessing the Impact of Different Depression Treatment Success Metrics on Organizational Performance. Psychiatric Services 72(7):830-834.

90. Xu D, Pan J, Dai X, Hu M, Cai Y, He H, Zhang Y, Liao J, Chen Y, Gong W, Zhou Z, Zhang N, Wang X, **Chan KCG**, Ying, Cai Y, Wang R, Xue Q and Yip W. (2021). Comparing Quality of Primary Health Care between Public and Private Providers in China: Study Protocol of a Cross-sectional Study Using Unannounced Standardized Patients in Seven Provinces of China. BMJ open, 1(1):e040792.

91. **Chan, KCG**, Ling, H. K., Sit, T. and Yam, S. C. P. (2021). On asymptotic equivalence of the NPMLE of a monotone density and a Grenander-type

estimator in multi-sample biased sampling models. Electronic Journal of Statistics 15: 2876-2904.

92. *Hu J., **Chan K.C.G.**, Couper D., Breslow N. (2021) Estimating the hazard rate difference from case-cohort studies. European Journal of Epidemiology 36: 1129-1142.

93. Wartko PD, Weiss NS, Enquobahrie DA, **Chan KCG**, Stephenson-Famy A, Mueller BA, Dublin S. (2021) Association of antidepressant continuation in pregnancy and birthweight outcomes. Journal of Clinical Psychopharmacology 41(4): 403-413.

94. Wang J, Wong RKW, Mao X and **Chan KCG** (2021). Matrix completion with model-free weighting. Proceedings of the Thirty-eighth International Conference on Machine Learning, PMLR 139: 10927-10936.

95. *Lin R, **Chan KCG**, Shi H (2021). A Unified Bayesian Framework for Exact Inference of Area Under the ROC Curve. Statistical Methods in Medical Research 30(10): 2269-2287.

96. Ryan D, Tornberg-Belanger SN, Perez G, Maurer S, Price C, Rao D, **Chan KCG**, Ornelas IJ (2021) Stress, social support and their relationship to depression and anxiety among Latina immigrant women. Journal of Psychosomatic Research 149: 110588.

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98. Boccardi, M, et al. (2022) Harmonizing Neuropsychological Assessment for Mild Neurocognitive Disorders in Europe, Alzheimer's and Dementia 18(1):29-42.

99. Harris JR, Kava CM, **Chan KCG**, Kohn MJ, Hammerback K, Parrish AT, Helfrich CD, Hannon P. (2022) Pathways to Behavioral, Mental Health, and Productivity Outcomes in a Workplace Health Promotion Program. American Journal of Health Promotion 36(4):662-672.

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102. Wang J, Wong R.K.W., Yang S. and **Chan KCG** (2022) Estimation of Partially Conditional Average Treatment Effect by Double Kernel-covariate Balancing. Electronic Journal of Statistics 16(2): 4332-4378.

103. Edmonds AT, Rhew IC, Jones-Smith J, **Chan KCG**, Nelson K, Williams EC. (2022) Patient-centered primary care and receipt of evidence-based alcohol-related care in the national Veterans Health Administration. Journal of Substance Abuse Treatment 138:108709.

104. Edmonds A. T., Rhew I. C., Jones-Smith J., **Chan KCG**, de Castro B, Rubinsky AD, Blosnich JR, Williams EC. (2022) Neighborhood disadvantage, patterns of unhealthy alcohol use, and differential associations by gender, race/ethnicity, and rurality: a study of national Veterans Health Administration patients. Journal of Studies on Alcohol and Drugs, 83(6), 867–878.

105. Yang S-W, Mueller BA, Kernic MA, Simon GE, **Chan KCG**, Stoep AV. (2022). Mother's and Father's Serious Mental Illness and Risk of Child Injury in a Taiwanese Birth Cohort. Journal of Clinical Psychiatry, 83(6):21m14214.

106. *Huang M-Y and **Chan KCG**. (2022) Model selection among Dimension-Reduced generalized Cox models. Lifetime Data Analysis, 28(3):492-511.

107. **Chan KCG**, Han J., Kennedy A.P. and Yam S.C.P. (2022) Testing network autocorrelation without replicates. Plos One, 17(11): e027553.

108. Gauthreaux K, Mock C, Teylan MA, Culhane JE, Chen Y-C, **Chan KCG**, Katsumata Y, Nelson PT, Kukull WA. (2022) Symptomatic profile and cognitive performance in autopsy-confirmed limbic-predominant age-related TDP-43 encephalopathy with comorbid Alzheimer's disease. Journal of Neuropathology & Experimental Neurology, 81(12):975-987.

109. *Xia F, **Chan KCG** (2023). Identification, semiparametric efficiency, and quadraply robust estimation in mediation analysis with treatment-induced confounding. Journal of American Statistical Association 118(542): 1272-1281.

110. *Gao F and **Chan KCG**. (2023) Noniterative adjustment to regression estimators with population-based auxiliary information for semiparametric models. Biometrics 79: 140-150.

111. *Gao F., *Fan X. **Chan KCG**. (2023) Defining and estimating subgroup mediation effects with semi-competing risks data. Statistica Sinica 33: 2495-2517.

112. Suri P, Heagerty PJ, Korpak A, Jensen M, **Chan KCG**, Timmons A, Friedly J, Jarvik JG, Baraff A. (2023) Improving Power and Accuracy in Randomized Controlled Trials of Pain Treatments by Accounting for Concurrent Analgesic Use. Journal of Pain, 24 (2): 332-344.

113. Correro A, Gauthreaux K, Perales-Puchalt J, Chen Y-C, **Chan KCG**, Kukull WA, Flatt JD. (2023) Cognitive Aging with Dementia, Mild Cognitive Impairment, or No Impairment: A Comparison of Same- and Mixed-Sex Couples. Journal of Alzheimer's Disease, 92 (1): 109-128.

114. *Liu P, **Chan KCG** and Chen YQ. (2023) On a Simple Estimation of the Proportional Odds Model under Right Truncation. Lifetime data analysis, 29: 537-554.

115. Scalco et al. (2023) The status of digital pathology and associated infrastructure within Alzheimer's Disease Research Centers. Journal of Neuropathology & Experimental Neurology, 82(3): 202-211.

116. Ornelas I, Rao D, Price C, **Chan KCG**, Tran A, Aisenburg G, Perez G, Maurer S, Nelson AK. (2023) Promoting Mental Health in Latina Immigrant Women: Results from the Amigas Latinas Motivando el Alma Intervention Trial. Social Science and Medicine, 321:115776.

117. Beauchamp G*, Hosek S, Donnell D, **Chan KCG**, Flaherty B, Anderson PL, Dye BJ, Mgodi N, Bekker L-G, Delany-Moretlwe S, Celum C, for the HPTN 082 study team. (2023) Development of a tool to assess HIV prevention readiness of adolescent girls and young women in the HPTN 082 study. Plos One, 18(2):e0281728.

118. Shahrir S, Crothers K, McGinnis KA, **Chan KCG**, Baeten JM, Wilson SM, Butt AA, Pisani MA, Baldassarri SR, Justice A, Williams EC. (2023) Receipt of Smoking Cessation Medications among People with and without HIV in the Veterans Aging Cohort Study (2003-2018). Open Forum Infectious Diseases, 20;10(3):ofad089.

119. Radin A, Shaw J, Brown SP, Torres J, Harper M, Flint H, Fouts T, McCue, E, Skeie A, Pena C, Youell J, Doty-Jones A, Jacob W, Flinn L, Austin G, **Chan KCG**, Zheng Z, Fruhbauerova M, Walton M, Kerbrat A, Comtois KA. (2023) Comparative Effectiveness of Two Versions of a Caring Contacts Intervention in Healthcare Providers, Staff, and Patients for Reducing Loneliness and Mental Distress: A Randomized Clinical Trial. Journal of Affective Discovers, 331:442-451.

120. Littman AJ, Timmons AK, Korpak A, **Chan KCG**, Jones KT, Shirley S, Nordrum K, Robbins J, Moy E. (2023) Evaluation of the effectiveness of

remote foot temperature monitoring for prevention of amputation in a large integrated healthcare system. Diabetes Care, 46(8):1464-1468.

121. Beauchamp G*, Donnell D, Hosek S, Anderson PL, **Chan KCG**, Mgodi N, Bekker L-G, Delany-Moretlwe S, Celum C, for the HPTN 082 study team. (2023) Trust in the provider and accurate self-reported PrEP adherence among adolescent girls and young women in South Africa and Zimbabwe: HPTN 082 study. BMC Women's Health, 19;23(1):276.

122. Liu P*, Huang Y, **Chan KCG** and Chen YQ. (2023) Semiparametric Trend Analysis for Stratified Recurrent Gap Times under Weak Comparability Constraint. Statistics in Biosciences, 15: 455–474.

123. Radin, A et al. (2023)   Comparative Effectiveness of Safety Planning Intervention with Instrumental Support Calls (ISC) versus Safety Planning Intervention with Two-Way Text Message Caring Contacts (CC) in Adolescents and Adults Screening Positive for Suicide in Emergency Departments and Primary Care Clinics: Protocol for a Pragmatic Randomized Controlled Trial. Contemporary Clinical Trials, 131:107268.

124. **Chan KCG**, Ling HK and Yam SCP. (2023) On Nonparametric Estimation for Cross-sectional Sampled Data under Stationarity. Electronic Journal of Statistics, 17(2), 2745-2809.

125. Xue W, Zhang X, **Chan KCG** and Wong RKW. (2024) RKHS-based covariate balancing for survival causal effect estimation. Lifetime Data Analysis, 30(1):34-58.

126. Gauthreaux K, Kukull WA, Nelson KB, Mock C, Chen Y-C, **Chan KCG**, Fardo DW, Katsumata Y, Abner E, Nelson PT. (2024) Different cohort, disparate results: Selection bias is a key factor in autopsy cohorts. Alzheimer's and Dementia, 20(1): 266-277.

127. O'Laughlin KN, Klabbers RE, Mannan IE, Gentile NL, Geyer RE, Zheng Z, Yu H, Li S-X, **Chan KCG**, Spatz ES, Wang R, L'Hommedieu M, Weinstein RA, Plumb ID, Gottlieb M, Huebinger RM, Hagen M, Elmore JG, Hill M, Kelly M, McDonald S, Rising KL, Rodriguez RM, Venkatesh A, Idris AH, Santangelo M, Koo K, Saydah S, Nichol G, Stephens KA. (2024) Ethnic and racial differences in the impact of COVID-19 on self-reported symptoms, health status, activity level, and missed work at three and six months. Frontiers in Public Health, 11:1324636.

128. Zhang J, Song L, Miller Z, **Chan KCG** and Huang, K.-L. (2023+) Predictive Models and Features of Patient Mortality across Dementia Types. Communications Medicine, in press.

129. Beauchamp G*, Hosek S, Donnell D, **Chan KCG**, Anderson PL, Dye BJ, Mgodi N, Bekker L-G, Delany-Moretlwe S, Celum C, for the HPTN 082 study team. (2023+) The effect of disclosure of PrEP use on adherence among African young women in an open-label study: finding from HPTN 082. AIDS and Behavior, in press.

130. Gao F* and **Chan KCG**. (2023+) Efficient Estimation of Semiparametric Transformation Model with Interval-Censored Data in Two-Phase Cohort Studies. Statistics in Biosciences, in press.

131. Weykemp M*, Beni CE, Stern KE, O'Keefe GE, Brakenridge SC, **Chan KCG** and Robinson BRH. (2023+) Predicting High-Intensity Resuscitation Needs in Injured Patients Following Hemostasis. Journal of Trauma and Acute Care Surgery, in press.

132. Shui L, Shibata D, **Chan KCG**, Zhang W, Sung J, Haynor D. Longitudinal relationship between brain atrophy patterns and cognitive decline and CSF biomarkers with Alzheimer's Disease explored by orthonormal projective non-negative matrix factorization. Journal of Alzheimer's Disease, in press.

Submitted articles.

133. Xia F*, Hughes JP, **Chan KCG**, Donnell D. Weighting in Marginal Structural Models with Intermediate Confounder-Mediators in Longitudinal Studies.

134. Wilkins-Reeves S*, Chen Y-C, **Chan KCG**. Data harmonization via regularized nonparametric mixing distribution estimation.

135. Wang J, Wong RKW, Zhang X and **Chan KCG**. Flexible functional treatment effect estimation.

136. **Chan KCG**, Ling HK, Tang C-F and Yam SCP. Nonparametric Likelihood Ratio Test for Univariate Shape-constrained Densities.

137. **Chan KCG**, Li X, Shi Y, Yam SCP. Stieltjes Smoothing along Imaginary Direction for Spectral Estimation and Shrinkage of Large Covariance Matrices.

138. Sun Y*, Zhao X, **Chan KCG**, Xu W, Allore H and Zhao Y. Semiparametric joint modeling for biomarker trajectory before disease onset.

139. Lee CJ, Fan X*, **Chan KCG**, Grant S, Richardson T, Erosheva EA. Normatively Backwards Rubric Scoring: Evidence from Peer Review at the National Institutes of Health.

140. Tiwari R, Wander PL, **Chan KCG**, Byun E, Chu AHY, Yap F, Tan KH, Shiao-Yng C, Huang J and Enquobahrie DA. Association of maternal height with infant birth size: analyses of multiple cohorts.

141. Tiwari R, Wander PL, **Chan KCG**, Byun E and Enquobahrie DA. Association of maternal height with pregnancy complications: analyses of two cohorts.

142. Radin, AK, Zheng Z, ShawJ , Brown SP, McCue E, Fouts T, Skeie A, Cecelia P, Youell, J, Flint H, Amelia D-J, Wilson J, **Chan KCG**, Fruhbauerova M, Walton, M, Comtois KA, PhD. Socio-demographic Factors Associated with Loneliness, Depression, Anxiety, Suicidal Ideation, and Stress, in Healthcare Providers and Staff and Primary Care Patients in Idaho during the COVID-19 Pandemic: A Cross-Sectional Study.

143. Littman AJ, Timmons AK, Korpak A, **Chan KCG**, Jones KT, Shirley S, Nordrum K, Robbins J, Masadeh S. Non-compliance with the use of SmartMats for remote foot temperature monitoring among Veterans in the Veterans Health Affairs: findings from an observational study.

144. Tiwari R, Wander PL, **Chan KCG**, Byun E and Enquobahrie DA. Joint association of maternal height and gestational diabetes with infant outcomes.

145. Meisner A, Xia F*, **Chan KCG**, Mayer K, Wheeler D and Donnell D. Estimating the Effect of PrEP in Black MSM: A Framework to Utilize Data From Multiple Non-Randomized Trials to Estimate Causal Effects.

146. Stephens KA, van Eeghen C, Zheng Z, Anastas T, Ma KPK, Prado MG, Clifton J, Rose G, **Chan KCG** and Kessler R. Effects of intervention stage completion in an integrated behavioral health and primary care randomized intervention trial.

147. Xiong Y, **Chan KCG**, Gorfine M, Hsu L. Cost-Effectiveness Analysis for Disease Prevention -- A Case Study on Colorectal Cancer Screening.

148. Li J, Wang J, Wong RKW and Chan KCG. A Pairwise Pseudo-likelihood Approach for Matrix Completion with Informative Missingness.

149. *Zhu K, Zheng Y, **Chan KCG**. Weighted Brier Score - an Overall Summary Measure for Risk Prediction Models with Clinical Utility Consideration.

150. Dong J, Wong RKW and **Chan KCG**. Balancing Method for Non-monotone Missing Data.

*: Graduate students/post-doctoral fellows supervised primarily by Dr. Chan

b.　　Other Refereed Scholarly Publications

151. **Chan KCG**. (2018) Alignment of time scales and joint models. Invited discussion of "Survival models and health sequences" by Dempsey W and McCullagh P, Lifetime Data Analysis 24 (4): 601-604

152. **Chan KCG**, Gao F and Xia F (2021) Invited discussion of "Causal mediation of semi-competing risks" by Huang Y, Biometrics, in press.

153. **Chan KCG** (2023). Book review of "Handbook of Measurement Error Models" by Grace Y. Yi, Aurore Delaigle, and Paul Gustafson, eds. Boca Raton, FL: Chapman & Hall/CRC Press, Journal of American Statistical Association 118 (541): 776-777.

c.   Book Chapters

154. Ma, Y, Zhou, XHA and **Chan, KCG** (2015). Covariate-specific and covariate-adjusted predictive values of prognostic biomarkers with survival outcome. In In Advanced Medical Statistics (2nd Edition), p. 51-77, edited by Lu Y., Fang, J., Tian, L. and Jin, H. World Scientific.

8. Funding history

a. Funded Projects

Role: Co-investigator   Effort: 10%

"ADRC Consortium for Clarity in ADRD Research Through Imaging",
U01AG0823509   12/1/2023-11/30/2028
Principal Investigator: Sterling Johnson
Role: Co-investigator   Effort: 5%

 "Comparing Two Ways to Provide Safety Planning Follow-Up Support for
Adults and Teens at Risk of Suicide", HSRP20202800 8/1/2019-4/30/2025
Principal Investigator: Anna Radin
Role: Co-investigator   Effort: 5%

"Comparative Effectiveness of Two-Way Caring Text Messages, One-Way
Caring Text Messages, and Best Available Usual Care for Suicide Prevention: A
Pragmatic Randomized Controlled Trial", American Foundation for Suicide
Prevention   9/1/2023-8/31/2026
Principal Investigator: Anna Radin
Role: Co-investigator   Effort: 5%

"Circulating miRNAs and prediction of beta-cell treatment response: The
Restoring Insulin Secretion Study", R01 DK132355   4/20/2022-1/31/2026
Principal Investigator: Luke Wander
Role: Co-investigator   Effort: 5%

"Identifying genetic predictors of outcomes for Veterans with chronic low back
pain and lumbosacral spinal disorders", I01 RX004291 1/1/2023-12/31/2025
Principal Investigator: Pradeep Suri
Role: Co-investigator   Effort: 7.5%

"Addressing Loneliness in Primary Care Patients on Chronic Opioids to Prevent
Opioid Misuse", R34 DA 058325   5/15/2023-3/31/2026
Principal Investigator: Sebastian Tong
Role: Co-investigator   Effort: 5%

b. Completed Projects

   "Increasing Implementation of Evidence-Based Interventions at Low-Wage
   Worksites", R01 CA160217

Principal Investigator: Peggy Hannon   7/1/2012-4/30/2023
  Role: Co-investigator   Effort: 10-15%

"Alzheimer's dementia onset and progression in international cohorts", R01 AG058676
Principal Investigator: Colin Masters   9/30/2018-10/31/2023
Role: Co-Investigator   Effort: 5-10%

"National Alzheimer's Coordinating Center", U01 AG016976
Principal Investigator: Walter Kukull   3/1/2017-6/30/2021
Role: Co-investigator

"Covariate balancing in missing data and observational studies", DMS 1711952
Principal Investigator: Gary Chan   8/16/2017-8/15/2021
Role: Principle investigator   Effort: 15%

"Methods of reduced-cost designs for studying disease incidence and fatality risks", R01 HL 122212
Principal Investigator: Gary Chan   4/16/2014-3/31-2020
Role: Principle investigator   Effort: 30%

"Amigas Latinas Motivando el Alma (ALMA): A Randomized Control Trial of an Intervention to Reduce Mental Health Disparities in Mexican Immigrant Women", R01 MD012230
Principal Investigator: India Ornelas   9/24/2017-5/31/2022
Role: Co-investigator   Effort: 10%

"Statistical Methods for Adherence Issues in HIV Prevention Research", R01 AI 121259
Principal Investigator: Ying Chen   7/1/2015-6/30/2020
Role: Co-investigator/Subcontract PI   Effort: 20%

"Methods for complex longitudinal data in HIV-AIDS prevention research", R56 AI140953
Principal Investigator: Ying Chen   7/1/2018-6/30/2020
Role: Co-investigator   Effort: 15%

"Statistical Methods in HIV/AIDS Research", R01 AI089341

Principal Investigator: Ying Chen   5/1/2010-4/30/2013
Role: Co-investigator/Subcontract PI   Effort: 20%

"Explaining the SES/Overweight and Obesity Relationship", NIDDK R01 DK07942
Principal Investigator: Shirley Beresford   11/1/2010-6/30/2014
Role: Co-investigator   Effort: 10%

"Modeling Breast Cancer Recurrence Using New Statistical Methods for Semi-Markov Processes", R01 CA160239
Principal Investigator: Lurdes Inoue   7/1/2012-6/30/2015
Role: Co-investigator   Effort: 10%

"Comparative Effectiveness of Dynamic Patterns of Glucose Lowering Therapies", R01 HS018542
Principal Investigator: Elbert Huang   1/1/2013-5/31/2017
Role: Co-investigator   Effort: 10%

10. Conferences and Symposiums

*"Induced Informative Censoring Revisited: Applications to Analysis of Medical Cost and Quality Adjusted Lifetime." Department of Biostatistics, Johns Hopkins University, Baltimore MD, 2006.
"Backward Estimation of Medical Cost in the Presence of a Failure Event." International Biometrics Society ENAR Spring Meeting, Arlington VA, 2008.
* "Backward Process and Analysis of End-of-life Cost." Department of Biostatistics, University of Washington, Seattle WA, 2008.
* "Backward Estimation of Medical Cost in the Presence of a Failure Event." Department of Statistics and Actuarial Science, The University of Hong Kong, Hong Kong, 2008.
* "Survival Analysis without Survival Data". Program in Biostatistics and Biomathematics, Fred Hutchinson Cancer Research Center, Seattle, WA, 2009.
"Terminal Behavior of Recurrent Marker Processes". International Conference on Health Policy Statistics. Washington, DC, 2010.
* "Calibration, Generalized Empirical Likelihood and Another Look at Missing Data Problem." Department of Biostatistics, University of Washington, Seattle WA, 2010.

* "Regression Analysis of Time Since Last Event." International Biometrics Society WNAR meeting, Seattle WA, 2010.

"Survival Analysis without Survival Data". Joint Statistical Meeting, Vancouver BC, 2010.

* "Efficiency and Robustness of Calibration Estimators in Missing Data Problems". The Chinese University of Hong Kong, Hong Kong, 2010.

* "End-of-life Medical Cost and Recurrent Marker Process". Health Services Research and Development, VA Puget Sound, Seattle WA, 2010.

"Beyond double robustness: multiple working models for missing data problems." International Biometrics Society ENAR meeting, Miami FL, 2011.

* "Multiple model assisted estimation of average treatment effect: Robustness, best linear model averaging and oracle semiparametric efficiency". Department of Statistics, University of Pennsylvania, Philadelphia PA, 2011.

* "Regression Models for length bias survival data". Department of Biostatistics, Johns Hopkins University, Baltimore MD, 2011.

* "Semiparametric Causal Inference with Multiple Working Models: Oracle Efficiency, Multiple Robustness and Best Linear Model Averaging". Department of Biostatistics, University of Washington, 2011.

* "Instrumental Variable Regression for Survival Outcome". International Chinese Statistical Association 2012 Applied Statistics Symposium, Boston MA, 2012.

"Oracle, Robust, and Best Linear Model Average Estimator in Randomized Trial." Joint Statistical Meeting, San Diego CA, 2012.

"Survival Analysis without Survival Data." International Biometrics Society Meeting, Kobe Japan, 2012.

* "Semiparametric causal inference with multiple working models." Department of Statistics, Chinese University of Hong Kong, 2012.

*"Marginalizable multilevel models for categorical and survival data." SLAM working group, Department of Biostatistics, Johns Hopkins University, 2013.

"Survival Analysis without Survival Data." International Chinese Statistical Association 2013 International Conference, Hong Kong, 2013.

* "Survival Analysis by Threshold Regression with Time-Dependent Covariates. " Department of Biostatistics, Johns Hopkins University, 2014.

* "Marginalizable multilevel models for categorical and survival data." Department of Statistics, Pennsylvania State University, 2014.

* "Survival Analysis without Survival Data", Joint Applied Statistics Symposium of International Chinese Statistical Association and Korean International Statistical Society, Portland OR, 2014.

* "Marginalizable multilevel models for categorical and survival data." Department of Statistics, University of Missouri, Columbia MO, 2015.

* "Simplified population causal inference via balancing," Department of Internal Medicine, University of Chicago, Chicago IL, 2015.

* "Globally efficient nonparametric inference of average treatment effects by empirical balancing calibration weighting. " Department of Biostatistics , Johns Hopkins University, 2015.

* "Nonparametric inference for the joint distribution of recurrent marked variables and recurrent survival time", Joint 24th ICSA Applied Statistics Symposium and 13th Graybill Conference, Fort Collins CO, 2015.

* "Simple instrumental variable regression for censored data with exposure-dependent censoring", Joint Statistical Meeting, Seattle WA, 2015.

* "Treatment evaluation in observational studies: How many models do we need?", Columbia University, New York NY, 2015.

* "Population causal inference: from local efficiency to globally efficiency without resorting to direct approximation", Princeton University, Princeton NJ, 2015.

* "Instrumental variable methods in survival analysis", Department of Biostatistics, Johns Hopkins University, 2015.

* "Population causal inference: from local efficiency to globally efficiency without resorting to direct approximation", Iowa State University, Ames IA, 2016.

*"Semi-nonparametric inference in possibly misspecified regression models with missing data", International Biometrics Society Meeting, Victoria BC, Canada, 2016.

*"Empirical balancing scores and balancing weights". Causal Inference Conference 2016, Columbia University, New York NY, 2016.

*"Empirical balancing scores and balancing weights". University of Hong Kong, Hong Kong, 2016.

*" Modeling and estimating the terminal behavior of recurrent marker processes before failure events". 2017 Conference on Lifetime Data Science, Storrs CT, 2017.

* Invited discussant in "Special Session on Reverse Alignment in Survival Processes " 2017 Conference on Lifetime Data Science, Storrs CT, 2017.

* "Semiparametric regression models for current duration data". 26th ICSA Applied Statistics Symposium, Chicago IL, 2017.

*" Modeling and estimating the terminal behavior of recurrent marker processes before failure events". Joint Statistical Meeting, Baltimore MD, 2017.

* "Instrumental variable survival analysis for non-adherence". ICSA Canada Chapter Symposium. Vancouver BC, 2017.

* "Empirical balancing scores and balancing weights". University of Waterloo ON, 2017.

* " Modeling and estimating the terminal behavior of recurrent marker processes before failure events". International Conference of the ERCIM WG on Computational and Methodological Statistics, London, UK, 2017.

*"Covariate balancing for treatment effects and mediation". University of British Columbia, Vancouver BC, 2018.

* "Modeling and estimating the terminal behavior of recurrent marker processes before failure events". Simon Fraser University, Burnaby BC, 2018.

*"Population Causal Inference: Old Wine in a New Bottle?". Center for studies in Demography and Ecology, University of Washington, Seattle WA, 2018.

*"Non-standard likelihood ratio tests for shape constraints". Department of Statistics, University of Washington, Seattle WA, 2018.

* "Empirical balancing scores and balancing weights". Department of Biostatistics, MD Anderson Cancer Center, Houston TX, 2018.

* "Covariate functional balancing for observational studies". 27th ICSA Applied Statistics Symposium, New Brunswick NJ, 2018.

*"Tilted balancing of covariates and mediators". Joint Statistical Meeting, Vancouver BC, 2018.

*" Non-standard likelihood ratio tests for shape constraints". Department of Statistics, Texas A&M University, College Station TX, 2018.

*"On terminal trajectory of cognitive decline". Emory Brain Health Center, Atlanta GA, 2018.

* "Recent statistical methodology publications using NACC UDS Database", Fall ADC Meeting, Atlanta GA, 2018.

*"Identification and estimation of natural direct effect in the presence of treatment induced confounding". International Biometrics Society WNAR annual Meeting, Portland OR, 2019.

* "A likelihood ratio test for shape-constraint density". Joint Statistical Meeting, Denver CO, 2019.

* "Covariate balancing with recurrent marker data". International Conference of the ERCIM WG on Computational and Methodological Statistics, London, UK, 2019.

"Causal mediation analysis with semi-competing risks data". Joint statistical meeting, 2020.

* "Optimal non-linear shrinkage estimation of covariance matrix of asset returns by imaginary direction smoothing". Chinese University of Hong Kong, Hong Kong, 2020.

* "Stein shrinkage, random matrix and imaginary direction smoothing". Department of Biostatistics, Columbia University, 2021.

"Racial-ethnic differences in baseline and longitudinal change in neuropsychological test scores in the NACC Uniform Data Set 3.0" The Alzheimer's Association International Conference, Denver, 2021.

"The utility of using version 3 of the Alzheimer's Disease Research Centers' neuropsychological test battery for prevention trials". 14th Clinical Trials on Alzheimer's Disease, Boston, 2021.

*"Identification and estimation of natural direct effect in the presence of treatment induced confounding". 5th International Conference on Econometrics and Statistics, Kyoto, 2022.

*"The National Alzheimer's Coordinating Center data set and some associated statistical problems". ICSA Canada Chapter Symposium. Banff AB, 2022.

*"A simple asymptotic non-conservative test for indirect effects". Pacific Causal Inference Conference, Beijing, 2022.

*"Stein shrinkage, random matrix and imaginary direction smoothing". Department of Mathematics and Statistics, Queens University, Kingston ON, 2023.

* "Multivariate mediation tests: hypotheses and dimension reduction", 2023 Annual MELDOEM conference, New Castle NH, 2023.

*"Harmonization and data integration for neuropsychological batteries", International Biometrics Society WNAR annual meeting, Anchorage AK, 2023.

*"Survival effect of colorectal cancer screening", 2023 International Conference for Statistics and Data Science, Taipei, Taiwan, 2023.

*"Mediation and partial conjunction testing via p-value spacings". Joint Statistical Meeting 2023, Toronto ON, Canada, 2023.

*: invited presentations

11. University Service

<u>Department of Biostatistics</u>
Education Policy and Teaching Evaluation / Curriculum Committee, 2009-2011
Faculty Search Committee, 2009-2010, 2016-2017 (Chair)
Communications: Newsletters and Web Page Committee, 2009-2010
PhD Theory Exam Committee, 2009-2014, 2017-2018 (Chair)

MS Theory Exam Committee, 2014-2015

Organizer, survival analysis working group, 2009-2010

Admissions Committee, 2010-2012

Senior Student Award Committee, 2012-2015

Graduation Speaker Selection Committee, 2012-2013

Staff Relations Committee, 2014-2015 (Chair)

Seminar Committee, 2016-2017

PhD Applied Exam Committee, 2016-2017, 2021-2022

Faculty Promotion Committee, 2017-2018

Alumni Relations Committee, 2018-2019 (Chair)

Faculty Development and Professional Advancement, 2019-2020, 2020-2021 (Chair)

Affiliate/Adjunct Appointments Committee, 2021-2023

Communications/Alumni Relations Committee, 2021-2022

Diversity, Equity and Inclusion Committee (Chair), 2022-2024

<u>Department of Health Services</u>
Academic Affairs Committee, 2009-2015, 2016-2018
Faculty Search Committee, 2014-2015

<u>School of Public Health</u>
Fellowship selection committee, 2020-2021

<u>College of the Environment</u>
Quantitative Ecology and Resource Management program PhD qualifying exam committee, 2020-2021

12. Professionally-related Services
Member, Advisory Group, quinquennial review, the UK Medical Research Council (MRC) Biostatistics Unit, the University of Cambridge, 2022-2023
Faculty search committee, Vaccine and Infectious Disease Institute, Fred Hutchinson Cancer Research Center, 2023

13. Teaching
a. Formal courses (100% Responsibility)
HSERV 524, Advanced Health Services Research Methods II, Winter 2009 – 2015, 2017- 2019

BIOST 570, Advanced Applied Statistics and Linear Models, Fall 2010
BIOST 576, Statistical Methods for Survival Data, Spring 2012, 2014
BIOST 531, Statistical Methods for Analysis with Missing Data, Winter 2013, 2015, 2017
BIOST 111, Lectures in Applied Statistics, Spring 2017
BIOST 533, Theory of Linear Models, Spring 2018
BIOST 572, Advanced Regression Methods: Project, Spring 2019, 2022
BIOST 522, Statistical Inference for Biometry I, Fall 2019 - 2022
BIOST 523, Statistical Inference for Biometry II, Winter 2021
BIOST 512, Medical Biometry II, Winter 2023

b. Guest Lecture
EPI/HSERV 548, Social Determinants of Health Research Methods, Winter 2010-2014
HSERV 525, Advanced Health Services Research Methods III, Spring 2015
HSERV 524, Advanced Health Services Research Methods II, Winter 2020
EPI/ENV H 571, Neuroepidemiology and Environmental Risk Factors, Winter 2024

c. Short course
Treatment effects evaluation in health studies, Sun Yat-sen Global Health Institute, Sun Yat-sen University, Guangzhou, China, 2017. Enrollment: 150+

d. Independent study
Kate Hu, Department of Biostatistics, University of Washington, 2010-2014
Jason Liang, Department of Biostatistics, University of Washington, 2010-2011
Laura Yee, Department of Biostatistics, University of Washington, 2011-2014
Rong Fu, Department of Biostatistics, University of Washington, 2011-2012
Rui Zhang, Department of Biostatistics, University of Washington, 2011-2014
Tracey March, Department of Biostatistics, University of Washington, 2012-2013
Stefan Sharkansky, Department of Statistics, University of Washington, 2013-2015
Jun Hwang, Department of Biostatistics, University of Washington, 2014-2016
Anqi Cheng, Department of Biostatistics, University of Washington, 2015-2017
Fan Xia, Department of Biostatistics, University of Washington, 2016-2018
Yuxiang Xie, Department of Biostatistics, University of Washington, 2017-2018
Xiaoyue Wang, Department of Biostatistics, University of Washington, 2017
Kendrick Li, Department of Biostatistics, University of Washington, 2017-2018

Yue Kun, Department of Biostatistics, University of Washington, 2018

Maria Valdez, Department of Biostatistics, University of Washington, 2020-2021

Steve Wilkins-Reeves, Department of Statistics, University of Washington, 2020-

Yunhan Wu, Department of Biostatistics, University of Washington, 2021-

Kehao Zhu, Department of Biostatistics, University of Washington, 2021-2022

Yilin Song, Department of Biostatistics, University of Washington, 2021-

Zhenman Yuan, Department of Statistics, University of Washington, 2022-2023

Rui Wang, Department of Biostatistics, University of Washington, 2023-

Yueqi Xu, Department of Biostatistics, University of Washington, 2023-

e. Research assistant supervision

Takumi Saegusa, Department of Biostatistics, University of Washington, 2010-2012

Jun Hwang, Department of Biostatistics, University of Washington, 2014-2015

Asad Haris, Department of Biostatistics, University of Washington, 2014-2017

Anqi Cheng, Department of Biostatistics, University of Washington, 2015-2017

Yuxiang Xie, Department of Biostatistics, University of Washington, 2018-2019

Steve Wilkins-Reeves, Department of Statistics, University of Washington, 2020-2022

Zihan Zheng, Department of Biostatistics, University of Washington, 2021-2022

Rui Wang, Department of Biostatistics, University of Washington, 2023-

14. Advising and Formal Mentoring

a. PhD Dissertations, chair

Kate Jie Hu (PhD, Department of Biostatistics), 2011-2014 (Co-advisor: Norman Breslow)

Dissertation Title: A Z-estimation System for Semiparametric Models with Two-phase Sampling Designs.

[#]Thesis work won Travel Award at the 2013 Graybill Conference for Modern Survey Statistics.

Laura Yee (PhD, Department of Biostatistics), 2012-2014

Dissertation Title: Survival Analysis Methods for Recurrent Medical Cost Data

Rui Zhang (PhD, Department of Biostatistics), 2012-2014

Dissertation Title: Marginalizable mixed effect models for clustered binary, categorical and survival data.

[#]Thesis work won the ASA Biopharmaceutical Section Student Paper Award in 2013.

Stefan Sharkansky (PhD, Department of Statistics), 2013-2015

Dissertation Title: Discrete-time threshold regression for survival data with time-dependent covariates

Anqi Cheng (PhD, Department of Biostatistics), 2015-2019

Dissertation Title: Nonparametric and Semiparametric Estimation of Instrumental Variable Method

[#]Thesis work won ASA Biometrics Section travel award in 2017.

Fan Xia (PhD, Department of Biostatistics), 2016-2020

Dissertation Title: Mediation analysis with complex intermediate causal structure

Yuxiang Xie (PhD, Department of Biostatistics), 2018-2019

Dissertation Title: Statistical Methods for sparce binary, count data and treatment effect heterogeneity

Geetha Beauchamp (PhD, Department of Health Systems and Population Health), 2019-2022 (Co-advisor: Deborah Donnell)

Dissertation Title: Understanding the Influence of Socio-ecological Factors on PrEP Use in Adolescent Girls and Young Women (AGYW) in sub-Saharan Africa

Kehao Zhu (PhD, Department of Biostatistics), 2022- (Co-advisor: Yingye Zheng)

[#]Thesis work won ENAR and ASA Risk Analysis Section travel award in 2024.

Yilin Song (PhD, Department of Biostatstics), 2023- (Co-advisor: Thomas Richardson)

Zhenman Yuan (PhD, Department of Statistics), 2023-

b. Master Dissertations, chair

Xiaochen Dai (MPH, Department of Biostatistics), 2017-2019

Michael Weykemp (MS, Department of Health Systems and Population Health), 2022-2023

c. MS and PhD Committees in Non-Chair Role

Benjamin Keeney (PhD, Department of Health Services), 2009-2012

Sean Devlin (PhD, Department of Biostatistics), 2009-2011

Takumi Saegusa (PhD, Department of Biostatistics), 2009-2012

Stephanie Hall Kneeshaw-Price (PhD, Department of Health Services), 2010-2012

Michael Sachs (PhD, Department of Biostatistics), 2011-2011

Deborah Huang (MPH, Department of Health Services), 2011-2012

Junho Jang (MPH, Department of Health Services), 2012-2012

Eric Meier (MS, Department of Biostatistics), 2012-2012

John Dickerson (PhD, Department of Health Services), 2013-2014

Azin Farzan (PhD, Business School), 2013-2013

Ian Randall (PhD, Department of Health Services), 2013-2016

Sarah Knerr (PhD, Department of Health Services), 2013-2015

Laura Blanar (PhD, Department of Health Services), 2013-2016

Wenying Zhang (PhD, Department of Biostatistics), 2013-2016

Archana Shrestha (PhD, Department of Epidemiology), 2014-2015

Biraj Karmacharya (PhD, Department of Epidemiology), 2014-2015

Kara Bensley (PhD, Department of Health Services), 2016-2017

Sylvia Badon (PhD, Department of Epidemiology), 2016-2017

Paige Wartko (PhD, Department of Epidemiology), 2016-2018

Duo Song (MPH, Department of Global Health), 2016

Debbie Passey (PhD, Department of Health Services), 2016-2017

Shiow-Wen Yang (PhD, Department of Epidemiology), 2016-2019

Xiaochen Dai (PhD, Global Health), 2017-2019

Yunqi Bu (PhD, Department of Biostatistics), 2017-2019

Hong Xiao (PhD, Global Health), 2017-2019

Meagan Brown (PhD, Department of Health Services), 2017-2019

Megan Suter (PhD, Department of Epidemiology), 2018-2021

Amy Edmonds (PhD, Department of Health Services), 2018-2021

Shuxian Chen (PhD, Department of Pharmacy), 2018-2020

Shixiao Chen (PhD, Department of Statistics and Actuarial Science, University of Waterloo), 2019

George Yu (MS, Department of Epidemiology), 2019-

Huizhong Guo (PhD, Department of Civil and Environmental Engineering), 2019-2021

Shahida Shahrir (PhD, Department of Health Services), 2019-2022

Diana Poehler (PhD, Department of Health Services), 2019-

Ruchi Tiwari (PhD, Department of Epidemiology), 2020-2022

Jessica Culhane (PhD, Department of Epidemiology), 2020-

Gang Cheng (PhD, Department of Statistics), 2021-2022

Steven Wilkin-Reeves (PhD, Department of Statistics), 2021-

Christina Park (PhD, Department of Epidemiology), 2022-
Sophie Freije (PhD, Department of Epidemiology), 2022-
Daniel Suen (PhD, Department of Statistics), 2022-

d. Academic Advising
Jason Liang (PhD, Department of Biostatistics), 2009-2012
Jing Fan (PhD, Department of Biostatistics), 2010-2013
Mariko Toyoji (MPH, Department of Health Services), 2011-2012
Shi Xu (PhD, Department of Biostatistics), 2012-2014
Hojun Hwang (PhD, Department of Biostatistics), 2013-2016
Xiaoyue Wang (MS, Department of Biostatistics), 2016-2017
Parker Xie (PhD, Department of Biostatistics), 2016-2018
Geetha Beauchamp (PhD, Department of Health Services), 2017-2019
Zhu, Kehao (PhD, Department of Biostatistics), 2020-
Sungtaek Son (PhD, Department of Biostatistics), 2021-
Rui Wang (PhD, Department of Biostatistics), 2022-
Connie Zhang (PhD, Department of Biostatistics), 2023-
Runjia Zou (PhD, Department of Biostatistics), 2023-

e. Postdoctoral Researcher
Yifei Sun, 2015-2017 (Current position: Assistant Professor, Department of Biostatistics, Columbia University, USA)
Ming-Yueh Huang, 2015-2017 (Current position: Assistant research fellow, the Institute of Statistical Science, Academia Sinica, Taiwan)
Peng Liu, 2015-2017 (Current position: Lecturer, Department of Statistics, University of Kent, UK)
Ruitao Lin, 2016-2017 (Current position: Assistant Professor, Department of Biostatistics, University of Texas MD Anderson Cancer Center, USA)
Chuan-Fa Tang, 2017-2019 (Current position: Assistant Professor, Department of Mathematics, University of Texas at Dallas)
Fei Gao, 2017-2019 (Current position: Assistant Member, Public Health Sciences Division, Fred Hutchinson Cancer Research Center)
Fan Xia, 2020-2022 (Current position: Assistant Professor, Department of Epidemiology and Biostatistics, University of California San Francisco)
Yuexuan Wu, 2022-2024 (Current position: Assistant Professor, Department of Statistics, University of South Carolina)