

## Publications

### Statistical Methodology Papers

1. **Wu Y** (2022). Weighted generalized score test for comparing predictive values under a case-control design. *Statistics in Medicine*. Under review.
2. **Wu Y** (2022). Should accordant pairs be verified in comparing two screening tests in the presence of verification bias? *Statistics in Medicine*. Under review.
3. **Wu Y** (2022). Simple methods for comparing predictive values with incomplete data. *Statistics in Medicine*. Under review.
4. **Wu Y** (2022). Weighted generalized score test for comparing predictive values in the presence of verification bias. *Statistics in Medicine*. Invited revision.
5. **Wu Y** (2021). Joint comparison of the predictive values of multiple binary diagnostic tests: an extension of McNemar's test. *Journal of Biopharmaceutical Statistics*.  
[DOI:10.1080/10543406.2022.2065500](https://doi.org/10.1080/10543406.2022.2065500)
6. **Wu Y** (2021). Weighted McNemar's test for the comparison of two screening tests in the presence of verification bias. *Statistics in Medicine*, 41(16),3149-3163.  
[DOI:10.1002/sim.9409](https://doi.org/10.1002/sim.9409)
7. **Wu Y** (2020). Assess predictive values of a binary diagnostic test under a nested case-control design. *Journal of Biopharmaceutical Statistics*, 32(2),219-229.  
[DOI: 10.1080/10543406.2021.1975130](https://doi.org/10.1080/10543406.2021.1975130)
8. **Wu Y** (2020). Nonparametric inference of the area under ROC curve under two-phase cluster sampling. *Journal of Biopharmaceutical Statistics*, 32(2), 346-355.  
[DOI:10.1080/10543406.2021.2009501](https://doi.org/10.1080/10543406.2021.2009501)
9. **Wu Y** (2020). A revisit to Bennett's goodness-of-fit statistic for comparing two predictive values. *Communication in Statistics-Theory and Methods*, 51(10), 3419-3433.  
[DOI:10.1080/03610926.2021.1982987](https://doi.org/10.1080/03610926.2021.1982987)
10. **Wu Y** (2020). Comparison of diagnostic likelihood ratios of two binary tests with case-control clustered data. *Communication in Statistics-Theory and Methods*, 51(11),3836-3846  
[DOI:10.1080/03610926.2021.1980805](https://doi.org/10.1080/03610926.2021.1980805)
11. **Wu Y** (2019). Simple confidence interval and region formulas for comparing diagnostic likelihood ratios under a paired design. *Biometrical Journal*, 63(5), 1086-1095.  
[DOI:10.1002/bimj.202000146](https://doi.org/10.1002/bimj.202000146)
12. **Wu Y** (2019). Optimal two-phase sampling for estimating the area under the receiver operating characteristic curve. *Statistics in Medicine*, 40, 1059-1071.  
[DOI: 10.1002/sim.8819](https://doi.org/10.1002/sim.8819)
13. **Wu Y** (2019). True verification probabilities should not be used in estimating the area under receiver operating characteristic curve. *Statistics in Medicine*, 39(27), 3937-3946.  
[DOI: 10.1002/sim.8700](https://doi.org/10.1002/sim.8700)

14. **Wu Y** (2018). A robust adjustment to McNemar's test when the data are clustered. *Communication in Statistics-Theory and Methods*, 50(6), 1515-1529.  
[DOI:10.1080/03610926.2019.1651864](https://doi.org/10.1080/03610926.2019.1651864)
15. **Wu Y** (2018). Optimal nonparametric estimator of the area under ROC curve based on clustered data. *Communication in Statistics-Theory and Methods*, 49(6), 1446-1461.  
[DOI: 10.1080/03610926.2018.1563176](https://doi.org/10.1080/03610926.2018.1563176)
16. **Wu Y** (2018). Power Calculation of adjusted McNemar's test based on clustered data of varying cluster size. *Biometrical Journal*, 60(6), 1190-1200.  
[DOI: 10.1002/bimj.201800034](https://doi.org/10.1002/bimj.201800034)
17. **Wu Y** (2015). Optimal Weights in Nonparametric Analysis of Clustered ROC Curve Data. *Journal of Applied Mathematics and Physics*, 3, 828-833.  
[DOI: 10.4236/jamp.2015.37102](https://doi.org/10.4236/jamp.2015.37102)
18. **Wu Y, Zhu Y** (2012). Analysis of Family Data Collected under General Proband Sampling Scheme. *Statistics in Biopharmaceutical Research*, 4(1), 66-75.  
[DOI: 10.1080/19466315.2011.633870](https://doi.org/10.1080/19466315.2011.633870)
19. **Wu Y, Xiaofei Wang** (2011). Optimal Weight in Estimating the Receiver Operating Characteristic Curve Area Using Longitudinal Data. *Biometrical Journal*, 53(5), 764-778.  
[DOI: 10.1002/bimj.201100033](https://doi.org/10.1002/bimj.201100033)
20. Wang X, **Wu Y, Zhou H** (2009). Outcome and Auxiliary-Dependent Subsampling and Statistical Inference for Cancer Biomarker Studies. *Journal of Biopharmaceutical Statistics*, 19, 1132-1150.  
[DOI: 10.1080/10543400903243025](https://doi.org/10.1080/10543400903243025)
21. **Wu Y, Zhu Y, Wang W** (2009). Impact of Inspection Error on the Average Run Length of CUSUM Charts. *Communication in Statistics-Simulation and Computation*, 38(7), 1435-1445.  
[DOI: 10.1080/03610910902948211](https://doi.org/10.1080/03610910902948211)
22. **Wu Y, Wenyan X, Jingguan D, Yuan L** (1998). The stationarity and spectral representation of one class of non-negative integer-valued time series. *Acta Mathematicae Applicatae Sinica*, 16(3), 185-192.  
[DOI: 10.1007/BF02677425](https://doi.org/10.1007/BF02677425)
23. **Wu Y, Wenyan X, Jingguan D, Yuan L** (1998). The strong law of large number and parameter estimation of one class of non-negative integer-valued time series. *Acta Mathematicae Applicatae Sinica*, 14(3), 225-233.  
[DOI: 10.1007/BF02677403](https://doi.org/10.1007/BF02677403)
24. Cheng X, **Wu Y, Du J, Liu H** (1997). The zero-crossing rate of pth order autoregressive processes. *Journal of Time Series Analysis*, 18(4), 355-374.  
[DOI: 10.1111/1467-9892.00055](https://doi.org/10.1111/1467-9892.00055)
25. Xu W, Du J, **Wu Y** (1992). Estimation of Parameters in One Class of Nonnegative Linear Process. *J. Sys. Sci. & Math. Scis*, 12(3), 240-249.  
[DOI: 10.12341/jssms08679](https://doi.org/10.12341/jssms08679)
26. Zu W, Du J, **Wu Y** (1995). Decomposition and Composition of ARIMA Series. *Acta Mathematicae Applicatae Sinica*, 18(1), 16-26. (in Chinese)
27. Li Y, Du J, **Wu Y** (1994). A Type of Seasonal Integer-Valued Autoregressive Model-SINAR(1). *Acta Mathematicae Applicatae Sinica*, 17(1), 100-108 (in Chinese).

28. Dai J, Xu W, Du J, **Wu Y** (1993). Estimation of Parameters in AR(p) Models with Non-negative i.i.d. Innovation. *Acta Mathematicae Applicatae Sinica*,16(4), 506-516.(in Chinese)

### Applied Papers

1. Garzon-Villalba X P, **Wu Y**, Ashley, CD, Bernard, TE (2018). Heat stress risk profiles for three non-woven coveralls. *Journal of Occupational and Environmental Hygiene*,15 (1),80-85.  
[DOI: 10.1080/15459624.2017.1388514](https://doi.org/10.1080/15459624.2017.1388514)
2. Bubu OM, Brannick M, Mortimer J, Umasabor-Bubu O, Sebastiao YV, Wen Y, Schwartz S, Borenstein AR, **Wu Y**, Morgan D, Anderson WM (2017). Sleep, Cognitive impairment, and Alzheimer's disease: A Systematic Review and Meta-Analysis. *sleep*, 40(1), 1-18.  
[DOI: 10.1093/sleep/zsw032](https://doi.org/10.1093/sleep/zsw032)
3. Garzon-Villalba, XP, **Wu Y**, Ashley CD, Bernard TE (2017). Ability to Discriminate Between Sustainable and Unsustainable Heat Stress Exposures-Part 1: WBGT Exposure Limits. *Annals of Work Exposures and Health*, 61 (6), 611-620.  
[DOI: 10.1093/annweh/wxx034](https://doi.org/10.1093/annweh/wxx034)
4. Garzon-Villalba X P, **Wu Y**, Ashley, CD, Bernard, TE (2017). Ability to Discriminate Between Sustainable and Unsustainable Heat Stress Exposures-Part 2 Physiological Indicators. *Annals of Work Exposures and Health*, 61 (6), 621-632.  
[DOI:10.1093/annweh/wxx035](https://doi.org/10.1093/annweh/wxx035)  
10.1093/annweh/wxx035
5. Alman AC,Smith SR,Eckel RH,Hokanson JE, Burkhardt BR, Sudini PR, **Wu Y**,Schauer IE, Pereira RI, Snell-Bergeon JK (2017). The ratio of pericardial to subcutaneous adipose tissues is associated with insulin resistance. *Obesity*, 25(7), 1284-1291.  
[DOI:10.1002/oby.21875](https://doi.org/10.1002/oby.21875)
6. Garzon-Villalba XP, Mbah, A., **Wu Y**, Hiles M, Moore H, Schwartz SW, Bernard TE (2016). Exertional heat illness and acute injury related to ambient wet bulb globe temperature. *American Journal of Industrial Medicine*, 59(12), 1169-1176.  
[DOI:10.1002/ajim.22650](https://doi.org/10.1002/ajim.22650)
7. Borenstein AR, **Wu Y**, Bowen JD, McCormick WM, Uomoto J, McCurry SM, Schellenberg G, Larson EB (2014). Incidence Rates of Dementia, Alzheimer's disease and Vascular Dementia in the Japanese American Population in Seattle, WA: The Kame Project. *Alzheimer Disease & Associated Disorders*, 28(1) 23-29.  
[DOI:10.1097/WAD.0b013e3182a2e32f](https://doi.org/10.1097/WAD.0b013e3182a2e32f)
8. Mortimer JA, Ding D, Borenstein AR, DeCarli,C, Guo Q, **Wu Y**, Zhao Q, and Chub S (2012). Changes in Brain Volume and Cognition in a Randomized Trial of Exercise and Social Interaction in a Community-Based Sample of Non-Demented Chinese Elders. *J Alzheimers Dis*, 30(4):757-66.  
[DOI:10.3233/JAD-2012-120079](https://doi.org/10.3233/JAD-2012-120079)
9. Duara R, Loewenstein D, Greig MT, Potter E, Barker W, Raj A, Schinka J, Borenstein A, Schoenberg M, **Wu Y**, Banko J, Potter H (2012). Pre-MCI and MCI: Neuropsychological, Clinical, and Imaging Features and Progression Rates. *Am J Geriatr Psychiatry*, 19(11):951-60.  
[DOI:10.1097/JGP.0b013e3182107c69](https://doi.org/10.1097/JGP.0b013e3182107c69)

10. Guglin M, Win CM, Darbinyan N, **Wu Y** (2012). Predictors of right ventricular systolic dysfunction in compensated and decompensated heart failure. *Congest Heart Fail*, 18(5), 278-83.  
[DOI:10.1111/j.1751-7133.2012.00289.x](https://doi.org/10.1111/j.1751-7133.2012.00289.x)
11. Cao C, Loewenstein DA, Lin X, Zhang C, Wang L, Duara R, **Wu Y**, Giannini A, Bai G, Cai J, Greig M, Schofield E, Ashok R, Small B, Potter H, Arendash GW (2012). High Blood caffeine levels in MCI linked to lack of progression to dementia. *J Alzheimers Dis*,30(3), 559-72.  
[DOI:10.3233/JAD-2012-111781](https://doi.org/10.3233/JAD-2012-111781)
12. Lu B, Viscidi RP, **Wu Y**, Lee JH, Nyitray AG, Villa LL, Lazcano-Ponce E, Carvalho da Silva RJ, Baggio ML, Quiterio M, Salmeron J, Smith DC, Abrahamsen ME, Papenfuss MR, Stockwell HG, Giuliano AR (2012). Prevalent serum antibody is not a marker of immune protection against acquisition of oncogenic HPV16 in men. *Cancer Res*, 72(3), 676-85.  
[DOI:10.1158/0008-5472.CAN-11-0751](https://doi.org/10.1158/0008-5472.CAN-11-0751)
13. Anic GM, Lee JH, Villa LL, Lazcano-Ponce E, Gage C, Jose C Silva R, Baggio ML, Quiterio M, Salmeron J, Papenfuss MR, Abrahamsen M, Stockwell H, Rollison DE, **Wu Y**, Giuliano AR (2012). Risk factors for incident condyloma in a multinational cohort of men: the HIM study. *J Infect Dis*, 205(5),789-93.  
[DOI:10.1093/infdis/jir851](https://doi.org/10.1093/infdis/jir851)
14. Lu B, Viscidi RP, **Wu Y**, Nyitray AG, Villa LL, Lazcano-Ponce E, Carvalho da Silva RJ, Baggio ML, Quiterio M, Salmeron J, Smith DC, Abrahamsen M, Papenfuss M, Giuliano AR (2012). Seroprevalence of Human Papilloma Virus (HPV) Type 6 and 16 Vary by Anatomic Site of HPV Infection in Men. *Cancer Epidemiol Biomarkers Prev*, 21(9),1542-6.  
[DOI:10.1158/1055-9965.EPI-12-0483](https://doi.org/10.1158/1055-9965.EPI-12-0483)
15. Lu B, Viscidi RP, Lee JH, **Wu Y**, Villa LL, Lazcano-Ponce E, da Silva RJ, Baggio ML, Quiterio M, Salmeron J, Smith DC, Abrahamsen M, Papenfuss M, Stockwell HG, Giuliano AR (2011). Human Papillomavirus (HPV) 6, 11, 16 and 18 Seroprevalence is Associated with Age and Sexual Practice: Results from the Multi-National HPV Infection in Men Study(HIM Study). *Cancer Epidemiol Biomarkers Prev*, 20(5), 990-1002.  
[DOI:10.1158/1055-9965.EPI-10-1160](https://doi.org/10.1158/1055-9965.EPI-10-1160)
16. Shen Q, Loewenstein D, Potter E, Zhao W, Appel J, Greig MT, Raj A, Acevedo A, Schofield E, Barker W, **Wu Y**, Potter H, Duara R (2011). Volumetric and visual rating of magnetic resonance imaging scans in the diagnosis of amnesic mild cognitive impairment and Alzheimer's disease. *Alzheimers Dement*, 7(4), 101-108.  
[DOI:10.1016/j.jalz.2010.07.002](https://doi.org/10.1016/j.jalz.2010.07.002)
17. Ranjan Duara, David A. Loewenstein, Maria T. Greig, Elizabeth Potter, Warren Barker, Ashok Raj, John Schinka, Amy Borenstein, Michael Schoenberg, **Wu Y**, Jessica Banko, and Huntington Potter (2011). Pre-MCI and MCI: Neuropsychological, Clinical, and Imaging Features and Progression Rates. *Journal of Geriatric Psychiatry*, 19(11), 951-960.  
[DOI:10.1097/JGP.0b013e3182107c69](https://doi.org/10.1097/JGP.0b013e3182107c69)
18. Duara R, Loewenstein D, Greig M, Acevedo A, Appel J., Raj A., Barker, W W, Potter E, Schofield E, Small B, Schinka J, **Wu Y**, Potter H (2010). Diagnosis and Staging of Mild Cognitive Impairment, using a modification of the Clinical Dementia Rating Scale: the mCDR. *International Journal of Geriatric Psychiatry*, 25, 282-9.  
[DOI:10.1002/gps.2334](https://doi.org/10.1002/gps.2334)
19. Duara R, Loewenstein D, Greig M, Acevedo A, Potter E, Appel J, Raj A, Schinka J, Schofield E, Barker W, **Wu Y**, Potter H (2010). Reliability and validity of an algorithm

for the diagnosis of normal cognition, mild cognitive impairment, and dementia: implications for multicenter research studies. *Am J Geriatr Psychiatry*, 18(4), 363-70.

[DOI:10.1097/jgp.0b013e3181c534a0](https://doi.org/10.1097/jgp.0b013e3181c534a0)

20. Mortimer JA, Borenstein AR, Ding D, DeCarli C, Zhao Q, Copenhaver C, Guo Q, Chu S, Galasko D, Salmon D, Dai Q, **Wu Y**, Petersen R, Hong Z (2010). High normal fasting blood glucose is associated with diagnosis of dementia in Chinese elders. *Alzheimer's and Dementia*, 6(6), 440-7.  
[10.1016/j.jalz.2010.03.017](https://doi.org/10.1016/j.jalz.2010.03.017)
21. He J, Losif AM, Lee DY, Martinez O, Ding D, Carmichael O, Mortimer JA, Zhao QH, Chu S, Guo Q, Galasko D, Salmon D, Dai Q, **Wu Y**, Petersen R, Hong Z, Borenstein AB, DeCarli C (2010). Brain structure and cerebrovascular risk in cognitively impaired patients: Shanghai Community Brain Health Initiative-pilot phase. *Arch Neurol*, 67(10), 1231-1237.  
[DOI:10.1001/archneurol.2010.230](https://doi.org/10.1001/archneurol.2010.230)
22. Borenstein AR, Mortimer JA, Ding D, Schellenberg GD, DeCarli C, Zhao QH, Copenhaver C, Guo Q, Chu S, Galasko D, Salmon D, Dai Q, **Wu Y**, Petersen R, Hong Z (2010). Effects of Apolipoprotein E-4 and E-2 in amnesic Mild Cognitive Impairment and dementia in Shanghai, China: SCOBHI-P. *Am J Alzheimer Dis Other Dement*, 25(3), 233-238.  
[DOI:10.1177/1533317509357736](https://doi.org/10.1177/1533317509357736)
23. Lu B, Hagensee ME, Lee JH, **Wu Y**, Stockwell HG, Nielson CM, Abrahamsen M, Papenfuss M, Harris RB, Giuliano AR (2010). Epidemiologic Factors Associated with Seropositivity to Human Papillomavirus Type 16 and 18 Virus-Like Particles (VLPs) and Risk of Subsequent Infection in Men. *Cancer Epidemiol Biomarkers Prev*, 19, 511-516.  
[DOI:10.1158/1055-9965.EPI-09-0790](https://doi.org/10.1158/1055-9965.EPI-09-0790)
24. Mitnitski A, Fallah N, **Wu Y**, Rockwood K, Borenstein AR (2010). Changes in cognition over eight years in elderly Japanese Americans: The Kame Project. *Annals of Epidemiology*, 20, 480-486.  
[DOI:10.1016/j.jalz.2009.04.1034](https://doi.org/10.1016/j.jalz.2009.04.1034)
25. Xu P, **Wu Y**, Zhu Y, Dagne G, Johnson G, Cuthbertson D, Krischer JP, Sosenko JM, Skyler JS (2010). Prognostic performance of metabolic indexes in predicting onset of type 1 diabetes. *Diabetes Care*, 33(12),2508-13.  
[DOI:10.2337/dc10-0802](https://doi.org/10.2337/dc10-0802)
26. Loewenstein DA, Acevedo A, Potter E, Schinka JA, Raj A, Greig MT, Agron J, Barker WW, **Wu Y**, Small B, Schofield E, Duara R (2009). Severity of medial temporal atrophy and amnesic mild cognitive impairment: selecting type and number of memory tests. *Am J Geriatr Psychiatry*, 17(12),1050-1058.  
[DOI:10.1097/JGP.0b013e3181b7ef42](https://doi.org/10.1097/JGP.0b013e3181b7ef42)
27. Appel J, Bhatia N, Shen Q, Potter E, Barker WW, **Wu Y**, Schofield E, Greig M, Loewenstein D and Duara R. Association of white matter hyperintensities on brain MRI to vascular and neurodegenerative risk factors. *American Journal of Neuroradiology* 2009; 30,1870-1876.  
[DOI:10.3174/ajnr.a1693](https://doi.org/10.3174/ajnr.a1693)
28. Hughes TF, Borenstein AR, Schofield E, **Wu Y**, Larson E (2009). The association between late-life body mass index and dementia: The Kame Project. *Neurology*, 72, 1741-1746.  
[DOI:10.1212/WNL.0b013e3181a60a58](https://doi.org/10.1212/WNL.0b013e3181a60a58)
29. Lu B, **Wu Y**, Carrie MN, Roberto F, Martha A, Mary P, Robin BH, Anna RG (2009). Factors Associated with Acquisition and Clearance of Human Papillomavirus Infection among a Cohort of U.S. Men: A Prospective Pilot Study. *The Journal of Infectious*

*Diseases*,199, 362-371.  
[DOI:10.1086/596050](https://doi.org/10.1086/596050)

30. Duara R, Loewenstein D, Potter E, Appel J, Grieg M, Urs R, Shen Q, Raj A, Small B, Barker WW, Schofield E, **Wu Y**, Potter H (2008). Medial Temporal Lobe Atrophy on MRI Scans and the Diagnosis of Alzheimer's Disease. *Neurology*,71, 1986-1992.  
[DOI:10.1212/01.wnl.0000336925.79704.9f](https://doi.org/10.1212/01.wnl.0000336925.79704.9f)
31. Borenstein AR, Mortimer JA, Dahlquist E, **Wu Y**, Salmon D, Gamst A, Olichney J, Thal LJ, Silbert L, Kaye J, Adonay R, Craig UK, Schellenberg GD, Galasko D (2007). Cycad seed exposure and risk of Dementia, MCI and ALS/PDS in the Chamorro population of Guam. *Neurology*,68(21), 1764-1771.  
[DOI:10.1212/01.wnl.0000262027.31623.b2](https://doi.org/10.1212/01.wnl.0000262027.31623.b2)
32. Borenstein AR., Mortimer JA, **Wu Y**, Jureidini-Webb FM, Fallin MD, Small BJ, Mullan M, Crawford FC (2006). Apolipoprotein E and cognition in population-based samples of African Americans and Whites. *Ethnicity and Disease*, 16, 9-15.  
[PMID: 16599342](https://pubmed.ncbi.nlm.nih.gov/16599342/)
33. Qi D, Borenstein, AR, **Wu Y**, James, JC, and Larson EB (2006). Fruit and vegetable juices and Alzheimer's disease: The Kame Project. *American Journal of Medicine* , 119(9), 751-759.  
[DOI:10.1016/j.amjmed.2006.03.045](https://doi.org/10.1016/j.amjmed.2006.03.045)
34. Borenstein AR, **Wu Y**, Mortimer JA, Schellenberg GD, McCormick WC, Bowen JD, McCurry S, Larson EB (2005). Developmental and vascular risk factors for Alzheimer's disease. *Neurobiology of Aging*,26(3), 325-334.  
[DOI:10.1016/j.neurobiolaging.2004.04.010](https://doi.org/10.1016/j.neurobiolaging.2004.04.010)
35. Zhu Y, Wang W, Atrubin D, **Wu Y**(2005). Initial Evaluation of the Early Aberration Reporting System-Florida. *MMWR*, 54,123-130.  
[PMID: 16177703](https://pubmed.ncbi.nlm.nih.gov/16177703/)