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Education

Ph.D. Statistics, University of California at Davis, 2001.

M.S. Statistics, University of California at Davis, 1998.

B.S. Mathematics, Beijing Normal University, 1995.

Employment

09/2017–Present	Professor Department of Mathematical Sciences, University of Texas at El Paso (UTEP), TX.	
07/2015–04/2018	Director, Statistical Consulting Lab (www.statlab.utep.edu/) Border Biomedical Research Center (BBRC) College of Science, University of Texas, El Paso, TX.	
09/2013–08/2017	Associate Professor Department of Mathematical Sciences, University of Texas at El Paso (UTEP), TX.	
01/2010–08/2013	Associate Professor School of Nursing, University of Alabama at Birmingham (UAB), AL	
2007–12/2009	Associate Professor Department of Statistics, University of Central Florida (UCF), Orlando, FL	
08/2001–2007	Assistant Professor Department of Statistics, University of Central Florida (UCF), Orlando, FL	
2000–2001	Credit Risk Analyst Risk Management Department, Household Credit Services, Salinas, CA	
1999, 2000	Research Associate (Summer Internship) Nursing Research Center, UC Davis Medical Center, Sacramento, CA	
1996–2000	Graduate Research/Teaching Assistant Department of Statistics, University of California at Davis (UCD), CA	
1995–1996	Lecturer Department of Mathematics, Hubei University of Arts and Science Xiangfan, Hubei Province, China	

Publications

Peer-Refereed Journal Articles

1. **Su, X.** and Fan, J. J. (2004). Multivariate Survival Trees: A Maximum Likelihood Approach based on Frailty Models. *Biometrics*, **60**: 93–99.

2. **Su, X.**, Wang, M., and Fan, J. J. (2004). Maximum Likelihood Regression Trees. *Journal of Computational and Graphical Statistics*, **13**: 586–598.

3. Yan, X. and **Su, X.** (2005). Testing for Qualitative Interaction. In *Encyclopedia of Biopharmaceutical Statistics: Revised and Expanded*, Second Edition, Ed. By Chow, S.-C., pp. 1343-1348. New York, NY: Marcel Dekker, Inc.

4. **Su, X.** and Tsai, C.-L. (2005). Tree-Augmented Cox Proportional Hazards Models. *Biostatistics*, **6**: 486-499.

5. Fan, J., **Su, X.**, Levine, R., Nunn, M.E., and LeBlanc, M. (2006). Trees for Correlated Survival Data by Goodness of Split, With Applications to Tooth Prognosis. *Journal of American Statistical Association*, **101**: 959–967.

6. **Su, X.**, Tsai, C.-L., and Yan, X. (2006). Treed Variance. *Journal of Computational and Graphical Statistics*, **15**: 356–371.

7. Yan, X. and **Su, X. G.** (2006). Sample size determination for clinical trials in patients with nonlinear chronic disease progression. *Journal of Biopharmaceutical Statistics*, **16**: 91–105.

8. **Su, X.** (2007). Tree-Based Model Checking for Logistic Regression. *Statistics in Medicine*, 26: 2154-2169.

9. **Su, X.**, Fan, J., Wang, A., and Johnson, M. (2006). On Simulating Multivariate Failure Times. *International Journal of Applied Mathematics & Statistics*, **5**: 8–18.

10. **Su, X.** and Tsai, C.-L. (2006). An Improved Akaike Information Criterion for Generalized Log-Gamma Regression Models, *The International Journal of Biostatistics*: **2**(1), Article 10.

11. Yan, X., Wang, M. and **Su, X.** (2007). Test for consistency of non-inferiority from multiple non-inferiority trials. *Journal of Biopharmaceutical Statistics*, **17**: 265–278.

12. Meneses, K., McNees, P., Loerzel, V., **Su, X.**, Zhang, Y., and Hassey, L. (2007). Transition from Treatment to Survivorship: Effects of a Psychoeducational Intervention on Quality of Life in Breast Cancer Survivors. *Oncology Nursing Forum*, **34**: 1–10.

13. McNees, P., Meneses, K., and **Su, X.** (2008). Applied Research Tools: Live Item Index Technique (LIITE) for Developing and Evaluating More Effective Behavioral Interventions. *Nursing Research*, **57**(2): 69–74.

14. **Su, X.**, Zhou, T., Yan, X., Fan, J.. and Yang, S. (2008). Interaction Trees with Censored Survival Data. *The International Journal of Biostatistics*, **4**(1), Article 2.

15. Loerzel, V., McNees, P., Powel, L., **Su, X.**, and Meneses, K. (2008). A longitudinal study of quality of life in older women with early stage breast cancer in the first year of post-treatment survivorship. *Oncology Nursing Forum*, **35**(6): 924–932.

16. Harb, R., Yan, X.D., Radwan, E., and **Su, X.** (2008). Exploring precrash maneuvers using classification trees and random forests. *Accident Analysis & Prevention*, **41**(1): 98–107.

17. **Su, X.**, Tsai, C.-L., and Wang, M. (2009). Tree-Structured Model Diagnostics for Linear Regression. *Machine Learning*, **74**(2): 111–131.

18. Sole, M.L., Penoyer, D. A, **Su, X.**, Jimenez, E., Kalita, S., Poalillo, E., Byers, J.F., Bennett, M., and Ludy, J. E., (2009). Assessment of Endotracheal Cuff Pressures with Continuous Monitoring: A Pilot Study. *American Journal of Critical Care*, **18**: 133–143.

19. **Su, X.**, Tsai, C.-L., Wang, H., Nickerson, D. and Li, B. (2009). Subgroup Analysis via Recursive Partitioning. *Journal of Machine Learning Research*, **10**: 141–158.

20. Fan, J.J., Nunn, M, and **Su, X.** (2009). Multivariate Exponential Survival Trees and its application to tooth prognosis. *Computational Statistics and Data Analysis*, **53**(4): 1110–1121.

21. Meneses, K., McNees, P., Azuero, A., Loerzel, V. W., **Su, X.**, Hassey, L. A. (2009). Preliminary Evaluation of Psychoeducational Support Interventions on Quality of Life in Rural Breast Cancer Survivors Post-Primary Treatment. *Cancer Nursing*, **32**(5):385–397.

22. Yan, X., Richards, S., and **Su, X.** (2010). Using Hierarchical Tree-Based Regression Model to Predict Train-Vehicle Crashes at Passive Highway-Rail Grade Crossings. *Accident Analysis & Prevention*, **42**: 64–74.

23. Yan, X. and **Su, X.** (2010). Stratified Wilson and Newcombe Confidence Intervals for Multiple Binomial Proportions. *Statistics in Biopharmaceutical Research*, **2**(3): 329–335.

24. Harb, R., **Su, X.**, and Radwan, E., (2010). Empirical Analysis of Toll-Lane Processing Times using Proportional Odds Augmented MARS. *Journal of Transportation Engineering* (*ASCE*), **136** (11): 1039–1048.

25. Sole, M. L., **Su, X.**, Talbert, S., Penoyer, D. A., Kalita, S., Jimenez, E., Ludy, J. E., and Bennett, M.(2011). Evaluation of an Intervention to Maintain Endotracheal Tube Cuff Pressure within Therapeutic Range. *American Journal of Critical Care*, **20**(2): 109–118.

26. Harb, R., Radwan, E., Abdel-Aty, M., and **Su, X.** (2011). Two simplified ITS-based lane management strategies for short term work zones. *Journal of Intelligent Transportation Systems*, **15**(1): 52–61.

27. **Su, X.** and Tsai, C.-L. (2011). Outlier Detection. *WIREs Data Mining and Knowledge Discovery*, **1**(3): 261–268.

28. **Su, X.**, Meneses, K., McNees, P., and Johnson, W. O. (2011). Interaction Trees: Exploring the differential effects of an intervention program for breast cancer survivors. *Journal of Royal Statistical Society, Series C*, **60**(3): 457–474.

29. Nunn, M., Fan, J. J., and **Su, X.** (2011). Developing Tooth Prognosis Rules via Multivariate CART. *Periodontology 2000*, **58**: 134–142.

30. **Su, X.**, Azuero, A., Cho, J., Kvale, E., Meneses, K., and McNees, M. P. (2011). An Introduction to Tree-Structured Modeling with Application to Quality of Life (QOL) Data. *Nursing Research*, **60**(4): 247–255.

31. Yan, X. and **Su, X.** (2011). Simultaneous Inference on All Linear Combinations of Means with Heteroscedastic Errors. *Journal of Probability and Statistics*, 2011, Article ID 484272.

32. Kang, J., **Su, X.**, Hitsman, B., Liu, K. and Lloyd-Jonesa, D. (2012). Tree-Structured Analysis of Treatment Effects with Large Observational Data. *Journal of Applied Statistics*, **39**(3): 513–529.

33. **Su, X.**, Yan, X., and Tsai, C.-L. (2012). Linear Regression. Invited Entry by *Wiley Interdisciplinary Reviews (WIREs): Computational Statistics*, **4**(3): 275–294.

34. Cho, J., Carlo, W., **Su, X.**, and McCormick, K. (2012). Associations between Salivary Testosterone and Cortisol Levels and Neonatal Health and Growth Outcomes Early Human Development. *Early Human Development*, **88**: 789–795.

35. Nowrouzi, A., Ghamarian, A., Abdollahi, M., Ahadi, A., **Su, X. G.**, and Amiri, A. (2012). Effect of Chicory Seed Extract on Glucose Tolerance Test (GTT) Pattern and Metabolic Profile in Early and Late Stages of Type2 Diabetes in Rats. *DARU Journal of Pharmaceutical Sciences*, **20**: article 56.

36. Kang, J., **Su, X.**, and Liu, K. (2012). Tree-Structured Assessment of Causal Odds Ratio with Large Observational Study Data Sets. *Journal of Data Science*, **10**: 757–776.

37. **Su, X.**, Kang, J., Fan, J., Levine, R., and Yan, X. (2012). Facilitating score and causal inference trees for large observational data. *Journal of Machine Learning Research* (*JMLR*), **13**: 2955–2994.

38. **Su, X.**, Fan, J., Levine, R., Tan, X., and Tripathi, A. (2013). Multiple-inflation Poisson models with ℓ_1 regularization. *Statistica Sinica*, **23**: 1071–1090.

39. Azuero, A., Meneses, K., **Su, X.**, and McNees, P. (2013). A revision of the quality of life – breast cancer survivors (QOL-BCS) instrument. *Research in Nursing & Health* (RINAH), **36**(4): 423–434.

40. Sharpsten, L., Fan, J., Barr, J. R. , **Su, X.**, Demireal, S., and Levine, R. A. (2013). Predicting Glaucoma Progression using Decision Trees for Clustered Data by Goodness of Split. *International Journal of Semantic Computing*, **7**(2): 157–172.

41. Feeley, C. A., Turner-Henson, A., Christian, B. J., Avis, K. T., Heaton, K., Lozano, D., and **Su, X. G.** (2014). Sleep Quality, Stress, Caregiver Burden, and Quality of Life in Maternal Caregivers of Young Children with Bronchopulmonary Dysplasia. *Journal of Pediatric Nursing*, **29**(1):29–38.

42. Meneses, K., Azuero, A., **Su, X.**, Benz, R., Yang, Z., and McNees, P. (2014). Predictors of Attrition Among Rural Breast Cancer Survivors. *Research in Nursing & Health* (RINAH), **37**(1): 21–31.

43. Kang, J., **Su, X.** , Liu, L., and Daviglus, M. (2014). Causal inference of interaction effects with inverse propensity weighting, G-computation and tree-based standardization. *Statistical Analysis and Data Mining*, **7**(5): 323–336.

44. Hallett, M. J., Fan, J. J., **Su, X.**, Levine, R. A. , and Nunn, M. E. (2014). Random forest and variable importance rankings for correlated survival data, with applications to tooth loss. *Statistical Modelling*, **14**: 523–547.

45. Levine, R., Fan, J.-J., **Su, X.**, and Nunn, M. (2014). Bayesian Survival Trees for Clustered Observations, Applied to Tooth Prognosis. *Statistical Analysis and Data Mining*, **7**(2): 111–124.

46. Raju, D., **Su, X.**, and Patrician, P. (2014). Using item response theory models to evaluate the Practice Environment Scale. *Journal of Nursing Measurement*, **22**(2): 323–341.

47. Raju, D., **Su, X.**, Patrician, P.A., Loan, L.A., McCarthy, M. S. (2015). Exploring Factors Associated with Pressure Ulcers: A Data Mining Approach. *International Journal of Nursing Studies*, **52**(1):102–111. PMID: 25192963

48. **Su, X.** (2015). Variable selection via subtle uprooting. *Journal of Computational and Graphical Statistics*, **24**(4): 1092–1113.

49. Cho, J. I., **Su, X.**, Phillips, V. , and Holditch-Davis, D. (2015). Associations of salivary testosterone and cortisol levels with mother – very low birthweight infant interactions. *Research in Nursing & Health* (RINAH), **38**(5): 357–368. PMID: 26152823

50. Hou, J., Seneviatne, C., **Su, X.**, Taylor, J., Lipkovich, I., Johnson, B., Wang, X. Q., Zhang, H., Wang, S.-J., Kranzler, H., Kang, J., and Liu, L. (2015). Subgroup identification in personalized treatment of alcohol dependence. *Alcoholism: Clinical and Experimental Research* (*ACER*), **39**(7): 1253–1259. PMID: 26031187

51. Yang, F., King, G., Dillon, L., **Su, X.** (2015). Controlled whole-body vibration training reduces risk of falls among community-dwelling older adults. *Journal of Biomechanics*, **48**(12): 3206–3212. PMID: 26189095

52. **Su, X.** , Wijayasinghe, C. S., Fan, J., and Zhang, Y. (2016). Sparse estimation of Cox proportional hazards models via approximated information criteria. *Biometrics*, **72**(3): 751–759. PMID: 26873398

53. Zhao, P., **Su, X.**, Ge, T., and Fan, J. (2016). Propensity score and proximity matching using random forests. *Contemporary Clinical Trials* (CCT), **47**: 85–92. PMID: 26706666

54. Cho, J. I., **Su, X.**, Phillips, V. , and Holditch-Davis, D. (2016). Associations of Maternal and Infant Testosterone and Cortisol Levels with Maternal Depressive Symptoms and Infant Socioemotional Problems. *Biological Research for Nursing* (BRN), **18**(1): 31–42. PMID: 25954021

55. Pisu, M., Meneses, K., Azuero, A., Benz, R., **Su, X. G.**, and McNees, P. (2016). Variation in resources needed to implement psychoeducational support interventions for rural breast cancer survivors. *Journal of Cancer Survivorship: Research and Practice*, **10**(2): 375–383. PMID: 26341349.

56. Cho, J., **Su, X.**, Phillips, V., and Holditch-Davis, D. (2016). Associations between maternal hormonal biomarkers and maternal mental and physical health of very low birth weight infants. *Asian Pacific Island Nursing Journal*, **1**(4): 149–161. PMCID: PMC5499695

57. Reb, A. M., Saum, N. S., Murphy, D. A., Breckenridge-Sproat, S. T., **Su, X. G.**, and Bormann, J. E. (2017). Qigong in injured military service members: A feasibility study. *Journal of Holistic Nursing*, **35**(1):10–24. PMID: 27021358

58. Cho, J. I., **Su, X.**, and Holditch-Davis, D. (2017). Associations of Maternal Testosterone and Cortisol Levels with Health Outcomes of Mothers and Their Very Low Birthweight Infants. *Biological Research for Nursing*, **19**(4): 409–418. PMCID: PMC5500235

59. Cho, J., **Su, X.**, and Holditch-Davis, D. (2017). Associations between Hormonal Biomarkers and Cognitive, Motor, and Language Developmental Status in Very-Low-Birthweight Infants. *Nursing Research*, **66**(5): 350–358. PMID: 28661908

60. Nabi, R. and **Su, X.** (2017). **coxphMIC**: An R package for sparse estimation of Cox PH Models via approximated information criterion. *The R Journal*, **9**(1): 229–238.

61. Patrician, P. A., McCarthy, M. S., Swiger, P. A., Raju, D., Breckenridge-Sproat, S., **Su, X.**, Randall, K. H., and Loan, L. A. (2017). Association of Temporal Variations in Staffing With Hospital-Acquired Pressure Injury in Military Hospitals. *Research in Nursing and Health*, **40**(2): 111–119. PMID: 27933637.

62. **Su, X.**, Pena, A., Liu, L., and Levine, R. (2018). Random Forests of Interaction Trees (RFIT) for Estimating Individualized Treatment Effects in Randomized Trials. *Statistics in Medicine*, **37**(17): 2547–2560. PMID:29707855.

63. Yang, F., Finlayson, M., Bethoux, F. A., **Su, X.**, Dillon, L., Maldonado, H. (2018). Effects of controlled whole-body vibration training in improving fall risk factors among individuals with multiple sclerosis: A Pilot Study. *Disability and Rehabilitation*, **40**(5):553–560. PMID: 27976932

64. Calhoun, P., **Su, X.**, Nunn, M., and Fan, J. (2018). Constructing multivariate survival trees: The MST package for R. *Journal of the Statistical Software* (JSS), **83**(12): 1–21. doi:10.18637/jss.v083.i12.

65. **Su, X.**, Fan, J., Levine, R. A., Nunn, M., and Tsai, C.-L. (2018). Sparse Estimation of Generalized Linear Models (GLM) via Approximated Information Criteria. *Statistica Sinica*, **28**: 1561–1581.

66. Yang, F., Qiao, M., **Su, X.**, and Lazarus, J. (2019). Relative importance of physical and psychological factors to slowness in people with mild to moderate multiple sclerosis. *Multiple Sclerosis and Related Disorders*, **27**: 81–90.

67. **Su, X.**, Wankye, Y., Wang, P., and Yin, X. (2019). Weighted orthogonal components regression analysis. *Journal of Data Science*, **17**(4): 674–695.

68. Gao, Q., **Su, X.**, Williams, H., Annabi, M. H., Schreiter, B. R., Prince, T., Ackerman, A., Morgas, S., Mata, V., Williams, H., and Lee, W.-Y. (2019). Application of Urinary Volatile Organic Compounds (VOCs) for the diagnosis of Prostate Cancer. Accepted, *Clinical Genitourinary Cancer*, **17**(3): 183–190.

69. Cho, J., **Su, X.**, and Holditch-Davis, D. (2019). Associations of Hormonal Biomarkers With Mental Health and Healthy Behaviors Among Mothers of Very-Low-Birthweight Infants. Submitted, *Biological Research for Nursing*, **21**(3): 253–263.

70. Han, D., Liu, L., **Su, X.**, Johnson, B., and Sun, L. (2019). Variable selection for the random effects two-part models. *Statistical Methods in Medical Research*, **28**(9): 2697–2709.

71. Yang, F., **Su, X.**, Wen, P.-S., and Lazarus, J. (2019). Adaptation to Repeated Gait-Slip Perturbations among Individuals with Multiple Sclerosis. *Multiple Sclerosis and Related Disorders*, **35**: 135–141.

72. Calhoun, P., Hallett, M. J., **Su, X.**, Cafri, G., Levine, R. A., and Fan, J. (2019). Random forest with acceptance-rejection trees. *Computational Statistics*, **35**: 983–999.

73. Zhang, Z., Shi, X., Xiang, X., Wang, C., Xiao, S., and **Su, X.** (2020). Bootstrap confidence intervals for the optimal cutoff point to bisect estimated probabilities from logistic regression. *Statistical Methods in Medical Research*, **29**(6): 1514–1526.

74. Meneses, K., Pisu, M., Azuero, A., Benz, R., **Su, X.**, McNees, P. (2020). Implementation Strategies for the Telephone-based Rural Breast Cancer Survivors Intervention. *Journal of Cancer Survivorship*, **14**(4): 494–503.

75. Han, D., **Su, X.**, Sun, L., Zhang, Z., and Liu, L. (2020). Variable selection for joint frailty models of recurrent and terminal events. *Biometrics*, **76**(4), 1330–1339.

76. Wei, Y., Liu, L., **Su, X.**, Zhao, L., and Jiang, H. (2020). Tree-structured subgroup identification in longitudinal studies. *Statistical Methods in Medical Research*, **29** (9): 2603–2616.

77. Li, X., Dusseldorp, E., **Su, X.**, and Meulman, J. J.. (2020). Multiple Moderator Meta-Analysis with R-package **metacart**. *Behavior Research Methods*, **52** (6): 2657–2673.

78. **Su, X.**, Cho, Y., Ni, L., Liu, L., and Dusseldorp, E. (2022). Refined moderation analysis with nominal outcomes. *Statistics in Medicine*, **42**(4): 470–486.

79. Anto, E. and **Su, X.** (2022). Refined moderation analysis with binary outcomes in precision medicine research. *Statistical Methods in Medical Research*, **32**(4): 732–747.

80. Yang, F., **Su, X.**, Sanchez, M., Hackney, M., and Butler, A. (2023+). Vibration training reducing falls in community-living older adults: A randomized controlled trial. *Aging Clinical and Experimental Research*, **35**(4): 802–814.

Books

1. Yan, X. and **Su, X.** (2009). *Linear Regression Analysis: Theory and Computing*. Saddle Brook, NJ: World Scientific.

Book Chapters

1. Wang, H. L. and **Su, X.** (2010). Bagging Probit Models for Unbalanced Classification. IGI Global publication, *Strategic Advancements in Utilizing Data Mining and Warehousing Technologies: New Concepts and Developments*, ed. Taniar, D. and Rusu, L. I., pp. 290–296.

2. **Su, X.** and Gau, G. (2011). "Predictive Modeling in Healthcare," Chapters 7-12 for *Healthcare Risk Adjustment and Predictive Modeling*, Invited by the Editor, Duncan, I. ACTEX Publications, Inc.

3. Calhoun, P., **Su, X.**, Spoon, K. M., Levine, R. A., and Fan, J. (2021). Advances in Random Forests. Accepted, *Handbook of Computational Statistics and Data Science*, Ed. Dr. Hao Helen Zhang, Wiley.

Letter to the Editor

1. Hayat MJ, Staggs VS, Schwartz TA, Higgins M, Azuero A, Budhathoki C, Chandrasekhar R, Cook P, Cramer E, Dietrich MS, Garnier-Villarreal M, Hanlon A, He J, Hu J, Kim M, Mueller M, Nolan JR, Perkhounkova Y, Rothers J, Schluck G, **Su, X**, Templin TN, Weaver MT, Yang Q, Ye S. (2019). Moving Nursing beyond $p < 0.05$. Accepted, Letter to the Editor, *Research in Nursing & Health*, *International Journal of Nursing Studies*, and several other journals.

Conference Proceedings, Abstracts, and Other Manuscripts

1. **Su, X.**, Tsai, C.-L., and Wang, M. (2003), Tree-Augmented Regression (TAR) Analysis. *2003 Proceedings of the American Statistical Association*, Statistical Computing Section [CD-ROM], Alexandria, VA: American Statistical Association.

2. **Su, X.** (2002), Maximum Likelihood Regression Trees. *2002 Proceedings of the American Statistical Association*, Statistical Computing Section [CD-ROM], Alexandria, VA: American Statistical Association.

3. Harb, R., Yan, X. D., Radwan, E., and **Su, X. G.** (2007). Crash Avoidance Analysis Using Classification Trees and Random Forests. *Transportation Research Board (TRB) Annual Meeting* 2007 Paper #08-1520.

4. Sole, M.L., **Su, X.**, Kalita, S. et al. (2007). Continuous monitoring of endotracheal tube cuff pressures over time: A pilot study. *Critical Care Medicine*, **35** (12 Supplement), A225.

5. Sole, M. L., **Su, X.**, Kalita, S., Talber, S., Ludy, J., Aragon-Penoyer, D., Jimemez, E., et al. (2008). Evaluation of an intervention to maintain endotracheal tube cuff pressures within a therapeutic range. *Critical Care Medicine*, **36** (12 Supplement), A135.

6. Sole, M. L., Penoyer, D., **Su, X.**, et al. (2009). Endotracheal tube cuff pressure: Changes associated with activity and over time. *American Journal of Critical Care*, **18**: e8.

7. **Su, X.**, Kang, J., Liu, L., Yang, Q., Fan, J., Levine, R. A. (2015). Smooth Sigmoid Surrogate (SSS): An alternative to greedy search in recursive partitioning. National University of Singapore, Institute for Mathematical Sciences (NUS–IMS) Preprint Series 2015–19. Available at `http://www2.ims.nus.edu.sg/preprints/2015-19.pdf`

Manuscripts under Review/Revision/Preparation

1. Wei, Y., Lee, W.-Y., Quaye, G. E., and **Su, X.** (2023+). Conservative Decisions with Optimal Cutoff Interval in Prostate Cancer Diagnosis. Under review, *Journal of the American Statistical Association* (JASA).

2. Holbrook, K., Pokojovy, M., **Su, X.**, Landa, E. N., Quaye, G. E., Badmos, S., Habib, A., and Lee, W.-Y. (2023+). Investigating the Effects of Storage Conditions on Urinary Volatilomes for Their Reliability in DiseaseDiagnosis. Under review, *American Journal of Clinical and Experimental Urology*.

3. Landa, E. N., Quaye, G. E., Badmos, S., Gao, Q., Holbrook, K., Habib, A., Polascik, T. J., Adams, E., Feldman, A. S., Raj, G., Annabi, M. M., Williams, H., **Su, X.**, and Lee, W.-Y. (2023+). A novel and non-invasive prostate cancer detection method focusing on urinary lipid related biomarkers. To be submitted.

4. Badmos, S., Landa, E. N., Holbrook, K., Quaye, G., Gao, Q., Feldman, A., Adams, E., Polascik, T., Annabi, M., **Su, X.**, Chacon, A., and Lee, W.-Y. (2023+). Profiling of Urinary Volatile Organic Compounds in Prostate Cancer Biopsy Pathologic Risk Stratification using Logistic Regression and Multivariate Analysis Models. Submitted, *Cancer Research*.

5. Yang, Y., Perera, C., Miller, P., **Su, X.**, and Liu, L. (2023+). Precision Medicine: Interaction Survival Tree for Recurrent Event Data. Under review, *Journal of Data Science*.

6. Quaye, G. E., Lee, W.-Y., Landa, E. N., Badmos, S., Holbrook, K. L., and **Su, X.** (2023+). Urinary volatile organic compounds (VOCs) based prostate cancer diagnosis via high-dimensional classification. Under revision, *Journal of Applied Statistics*.

7. **Su, X.**, Liu, L. , Liu, L. L., Dusseldorp, E., and Zhou, T.(2023+). Regression trees with fused leaves (TreeFuL). To be submitted, *Statistics in Medicine*.

8. Yu, L., Lin, N., and **Su, X.** (2021+). Group Sparsity via Approximated Information Criteria. To be submitted.

9. **Su, X.**, Kang, J., Liu, L., Yang, Q., Fan, J., Levine, R. A. (2021+). Smooth Sigmoid Surrogate (SSS): An alternative to greedy search in recursive partitioning. To be submitted,

10. **Su, X.** and Ocloo, I. (2022+). Evaluating the best binary split on a nominal input. Under preparation.

11. Ford, R. and **Su, X.** (2022+). RELIEF-based feature selection for heterogeneous treatment effects. Under preparation.

12. Fiagbe, R. and **Su, X.** (2022+). High-dimensional random forests. Under preparation.

13. Quaye, G. and **Su, X.** (2022+). Towards valid inference in decision trees. Under preparation.

14. Tripathi, A., Yuen, H. K., Zhang, K., and **Su, X.** (2022+). "Multiple-inflation Negative Binomial (MINB) Models". To be submitted.

15. Tripathi, A., Zhang, K., **Su, X.** (2022+). Multiple Inflation Generalized Poisson Models. To be submitted.

16. **Su, X.** et al. (2022+). Kernel selection in the 'kernel trick': a RELIEF approach. Under preparation.

17. **Su, X.** (2023+). *Statistical Machine Learning*. Under preparation with Chapman & Hall, CRC Press.

18. **Su, X.** (2023+). *Decision Tree Modeling*. Under planning with World Scientific.

Grant Proposal Activities

Funded

1. **Su, X.** (PI) and Wang, M. C. (2004–2006). Walt Disney World Co. "WDW Strategic Analysis and Reporting Intranet Site Project/Marketing Model Development and Deployment Project." Amount: $51,358.

2. **Su, X.** (PI) (2005–2006). UCF In-House Research Grant. "Grid-Based Data Reduction." Amount: $7,414.

3. Sole, M. L. (PI) (2006). American Association of Critical-Care Nurses (AACCN). "Assessment of Endotracheal Tube Cuff Pressures with Continuous Monitoring: A Pilot Study." Amount $10,000. Role: Co-PI.

4. Nunn, M. (PI) (2005-2006). NIH R03-DE016924. "Multivariate CART for survival with dental applications." Amount: $138,688. Role: Biostatistics Consultant.

5. Dow, K. (PI) (2001-2006). NIH 5R01-NR005332-04. "Quality of Life Intervention in Breast Cancer Survivors." Amount: $1,635,948. Role: Biostatistician.

6. Sole, M. L. (PI) (2007-2009). NIH-NINR-1R21NR010262-01. "Strategies for Airway Management & Prevention: Endotracheal Tube Cuff Intervention (STAMP-ETC)," Amount: $396,485. Role: Co-PI / Biostatistician.

7. Levine, R. and Fan, J. J. (2009-2011). NIH NEI 1R21EY018698-01A2. "Measuring and Predicting Visual Field Progression with Longitudinal-Survival CART". Role: Statistical Consultant.

8. Shah, M.(P.I.). (2009-2011). NIH-R21CA129263. "Computer Assisted Identification and Volumetric Analysis of Enhancing Components of Cancer Tumors." Amount: $407,510. Role: Biostatistician.

9. Cho, J. (PI). (2010-2012). NIH-1R21HD066186. "Perinatal Testosterone in Infant Health, Mother-Infant Interaction and Development," Amount: $407,875. Role: Biostatistician.

10. Meneses, K. (PI). (2008-2013). NIH-NCI-5R01CA120638-04. "Rural Breast Cancer Survivors Intervention." Amount: $3,899,000. Role: Co-Investigator / Biostatistician.

11. McNess, P. and Meneses, K. (PI). (2008-2013). NIH-NCI -1R01CA120638-03S1. "Administrative Supplement: Economic impact studies of interventions for cancer survivors." National Cancer Institute. Role: Biostatistician.

12. Patrician, P. (PI). (2010-2013). TriService Nursing Research Program Grant, HU0001-10-1-TS14. "Workload Intensity, the Nursing Practice Environment, and Adverse Events" (N10-C01). Amount: $450,000. Role: Biostatistician.

13. Heaton, K. (PI). (2011-2013). NIH-1R21OH009965-01. "Effects and Feasibility of a Computer-Based Intervention on Truck Drivers' Sleep". Amount: $402,875.00. Role: Biostatistician.

14. Nunn, M. (PI) (2011-2015). NIH NIDCR R01DE019656. "Multivariate CART for Survival with Dental Applications". Role: Statistical Consultant.

15. Breckenridge-Sproat, S. (PI) (2010-2013). The Geneva Foundation, HU0001-10-1-TS05 (N10-P02). "Building an EBP Mentorship Program to Sustain Bedside Evidence Based Culture". Role: Statistical Consultant.

16. Breckenridge-Sproat, S. (PI) (2011-2013). Henry M. Jackson Foundation, Grant Agreement No. HU0001-09-1-TS13. "Feasibility of a Mind-Body Intervention to Promote Wellness in Injured Soldiers". Role: Statistical Consultant.

17. Kempf, M.-C. (PI) (2012-2014). NIH-1 R34 MH097588-01. "Telemedicine to Improve Depression and Adherence in HIV+ Women in the Rural South". Role: Statistician.

18. Breckenridge-Sproat, S. (PI) (2013-2015). Tri-Services, "An Evaluation of the US Army Nurse Corps' Patient CaringTouch System (PCTS)". Role: Statistician. Percentage 5%.

19. **Su, X.** (PI, UTEP) (2014–2018). "BBRC: Biostatistics Consulting Lab and Research Ethics," NIH-NIMHD: 2G12MD007592-21, Federal. Role: PI.

20. Yang, F. (PI, UTEP) (2014-2016). Retirement Research Foundation. "Effects of controlled whole-body vibration training on preventing falls among Hispanic older adults". Amount: $78,148. Role: Statistician and Co-PI.

21. Yang, F. (PI, UTEP) (2014-2015). National Multiple Sclerosis Society. "Effects of controlled whole-body vibration training on reducing falls among individuals with multiple sclerosis". Amount: $43,297. Role: Co-PI.

22. Cho, J. (PI, Duke University) (2015-2020). NIH 1R01HD076871-01A1, "Testosterone and Cortisol Levels in Infant Health and Development". Role: Statistical Consultant and UTEP Cite PI.

23. Yang, F. (PI, Georgia State University) (2017-2019). GSU Seeds Grant, "Effects of Controlled Whole-Body Vibration Training in Improving Cognitive Function in People with Multiple Sclerosis". Role: Statistical Consultant.

24. Almeida, I. (PI, UTEP) (2018-2023). NIH 1U01AI129783-01A1. "New chemotherapy regimens and biomarkers for Chagas disease". Role: Statistical Consultant.

25. Lee, W.–Y. (PI, UTEP) (2019–2023). NIH 5SC1CA245675-02, Support of Competitive Research (SCORE) Research Advancement Award (SC1). "Urinary biomarkers for prostate cancer diagnosis and risk assessment." Role: Co-PI & Statistician.

26. Liu, L. (PI, Washington University in St. Louis) (2023–2025), "Innovative precision medicine methods in subgroup identification for Alzheimer's disease," (NIH 1R21AG084054-01). Role: Consultant.

Honors and Awards

- Co-authored paper, Han et al. (2020) 'Variable selection for joint frailty models of recurrent and terminal events', was listed as one of the top cited *Biometrics* articles in 2020-2021, 2022

- Co-recipient of ONS Publishing Excellence Quality of Life Award, "Transition from treatment to survivorship. Effects of a psycho-educational intervention on quality of life in breast cancer survivors," Oncology Nursing Society, 2008.

- Co-recipient of D. Jean Wood Nursing Scholarship Award. Southern Nursing Research Society, 2008.

- Fellowship recipient for the Sixth IMS New Researchers Conferences, 2003

- Travel grants recipient, the 40th Anniversary of Department of Statistics, Texas A&M University, 2002.

- Julius R. Blum Memorial Award for Outstanding Graduate Student of Year 1999, Department of Statistics, the University of California at Davis.

- Rank No. 1 in both Master Basic Exam and Ph.D. Qualification Written Exam, Department of Statistics, the University of California at Davis, 1997 and 1998.

Presentations and Invited Talks

- "Survival Trees with Fused Leaves", Department of Biostatistics, University of Nebraska Medical Center. Expected in October 2023.

- "Moderation Analysis with Categorical Outcomes in Prediction Medicine Research" [virtual], National Institute of Allergy and Infectious Diseases (NIH-NIAID) - Office of Data Science and Emerging Technologies (ODSET). March 3, 2023.

- "A Peek into Statistics in Precision Medicine via Interaction Trees and Forest" [virtual], Department of Mathematical Sciences, New Mexico State University, March 2022.

- "A Peek into Statistics in Precision Medicine via Interaction Trees and Forest", Department of Statistics & Data Science, University of Central Florida, March 2022.

- "A Peek into Statistics in Precision Medicine via Interaction Trees and Forest" [virtual], Department of Statistics, Miami University, March 2022.

- "A Peek into Statistics in Precision Medicine via Interaction Trees and Forest" [virtual], Department of Statistics, Actuarial and Data Sciences, Central Michigan University, January 2022.

- "Refined Moderation Analysis with Nominal Outcomes" [online], Invited Speaker and Organizer, 2020 American Mathematical Society (AMS) Fall Central Sectional Meeting, El Paso, TX, September, 2020.

- "RELIEF-Based Moderator Selection: A Case-Only Approach," Colloquium Speaker, Department of Statistics, University of Central Florida, October 2019.

- "RELIEF-Based Feature Selection for Heterogeneous Treatment Effects," Invited Speaker, Joint Statistical Meetings, Denver, CO, July, 2019.

- "RELIEF-Based Feature Selection for Heterogeneous Treatment Effects," Invited Speaker, ICSA China Summer Conference, Nankai University, Tianjin, China, July, 2019.

- "Statistics in Precision Medicine: An Introduction via Interaction Trees and Forests," Member of the Academic Committee and Invited Speaker, Symposium on Artificial Intelligence and Its Applications, China Computer Federation (CCF) & Wuhan Textile University, June, 2019.

- "Sparse estimation of GLM via Minimum Approximated Information Criteria", Invited colloquium, Department of Mathematical Sciences, New Mexico State University, Las Cruces, NM. October, 2018.

- "Machine Learning in Artificial Intelligence: An Overview", Keynote Speaker, 2018 Annual Conference of the Henan Computer Science Association, Zhoukou, Henan, China. July, 2018

- "Sparse estimation of GLM via Minimum Approximated Information Criteria", Invited colloquium, College of Mathematics and Computer Science, Wuhan Textile University, Wuhan, Hubei, China. June, 2018.

- "Random Forests of Interaction Trees for Estimating Individualized Treatment Effects in Randomized Trials", Workshop on Perspectives and Analysis Methods for Personalized Medicine, Institute for Mathematical Sciences, National University of Singapore, Singapore. July, 2017.

- "Sparse estimation of Cox Proportional Hazards Models via Minimum Approximated Information Criteria", Invited, 2017 ICSA China Conference with the Focus on Lifetime Data Science, Jilin, China. July, 2017.

- "Introduction to Statistics in Precision Medicine", Department of Mathematics, Hubei University of Arts and Science, Xiangyang, Hubei, China. June, 2017.

- "A Look into Precision Medicine via Interaction Trees", Department of Mathematics and Statistics, Old Dominion University, Norfolk, VA. February, 2017.

- "A Look into Personalized Medicine via Interaction Trees", Department of Statistics, The University of South Carolina, Columbia, SC. October, 2016.

- "Recursive Partitioning: Methods & Applications", Bioinformatics Colloquium, Department of Mathematical Sciences, The University of Texas, El Paso, TX. September, 2016.

- "A Look into Differential Treatment Effects via Interaction Trees", Department of Mathematical Sciences, The University of Texas, El Paso, Texas. September, 2016.

- "Smooth Sigmoid Surrogate (SSS): An Alternative to Greedy Search in Recursive Partitioning". Invited talk, 2016 Joint Statistical Meetings (JSM) at Chicago, IL. August, 2016.

- "Interaction Trees for Exploring Stratified and Individualized Treatment Effects". Invited, Department of Statistics, University of Kentucky, March, 2016.

- "Smooth Sigmoid Surrogate (SSS): An Alternative to Greedy Search in Recursive Partitioning". Invited, Department of Mathematics and Statistics, San Diego State University, San Diego, CA. March, 2016.

- "Sparse Estimation via Approximated Information Criteria", Department of Mathematics, Hubei University of Arts and Science, Xiangyang, Hubei, China. July, 2015.

- "Sparse Estimation via Approximated Information Criteria", Department of Statistics, Southwestern Jiaotong University, Chengdu, Sichuan, China. July, 2015.

- "Interaction Trees for Exploring Stratified and Individualized Treatment Effects", Invited, 2015 ICSA/Graybill Conference, Fort Collins, CO, June, 2015.

- "Sparse Estimation via Approximated Information Criteria", Department of Biostatistics, IUPUI, March, 2015.

- "Interaction Trees for Exploring Stratified and Individualized Treatment Effects", Division of Biostatistics, Northwestern University, September, 2014.

- "Variable Selection and Model Estimation via Approximated Information Criterion", Invited, 2014 ICSA and KISS Joint Applied Statistics Symposium, Portland, Oregon, June 2014.

- "Interaction Trees for Exploring Stratified and Individualized Treatment Effects", Invited, School and Workshop on Classification and Regression Trees, Institute for Mathematical Sciences (IMS), National University of Singapore (NUS), March, 2014.

- "Predicting Individual Causal Effects (ICE)". Invited, the International Federation of Classification Societies (IFCS 2013), Tilburg University, The Netherlands, July 2013.

- "Extended Uses of Interaction Trees". Invited, Research Group of Quantitative Psychology and Individual Differences, KU Leuven, Belgium, July, 2013.

- "Interaction Trees for Exploring Stratified and Individualized Treatment Effects", Section of Biostatistics & Epidemiology, Dartmouth Medical School, Lebanon, NH. May, 2013.

- "Variable Selection via Subtle Uprooting", Department of Mathematical Sciences, The University of Texas, El Paso, Texas. April, 2013.

- "Variable Selection via Subtle Uprooting", Joint Statistical Meetings, San Diego, CA, August, 2012.

- "Predicting Personal Causal Effects (PCE)", Center for Nursing Research, University of Alabama at Birmingham, January, 2012

- "Multiple Comparison Procedures beyond Bonferroni Adjustment", Center for Nursing Research, University of Alabama at Birmingham, September, 2011.

- "Interaction Trees for Subgroup Analysis", Multiple Comparison Procedures (MCP), Washington DC, September, 2011.

- "Tree-Structured Methods and Applications", Department of Biostatistics, University of Alabama at Birmingham, August, 2011.

- "Facilitating Score and Causal Inference Trees for Observational Studies", Department of Statistics, Indiana University, Bloomington. January, 2011.

- "Some Statistical Issues in the Analysis and Design of Intervention Trials -II," Center for Nursing Research, University of Alabama at Birmingham. December, 2010.

- "Some Statistical Issues in the Analysis and Design of Intervention Trials -I," Center for Nursing Research, University of Alabama at Birmingham. September, 2010.

- "Multiple-Inflation Poisson Model with L1 Regularization," Department of Computer Science, University of Alabama at Birmingham. May, 2010.

- "Tree-Structured Subgroup Analysis," 3rd Annual FDA/MTLI Medical Device and IVD Statistics Workshop, Bethesda, MD. April, 2010.

- "Interaction Trees: Understanding the Effect of BCEI", Department of Mathematics, University of Central Florida, 2009.

- "GLM and Recursive Partitioning in Healthcare Applications," Invited lecturer, Predictive Modeling Symposium of Society of Actuary (SOA), Chicago, IL, 2009

- "Tree-Structured Subgroup Analysis: Understanding the Effect of an Intervention Program for Breast Cancer Survivors", School of Nursing, University of Alabama at Birmingham, 2009.

- "Tree-Structured Subgroup Analysis: Understanding the Effect of an Intervention Program for Breast Cancer Survivors", School of Nursing, Oregon Health and Science University, 2009

- "Subgroup Analysis via Recursive Partitioning," Department of Statistics, University of Florida, 2008.

- "Tree-Structured Subgroup Analysis," Invited Talk. The 15th IMS International Conference of Forum for Interdisciplinary Mathematics on Interdisciplinary Mathematical & Statistical Techniques (IMST 2007 FIM XV). Shanghai, P. R. China, May 20-23, 2007.

- "Multivariate Exponential Survival Trees with Applications for Developing Dental Prognostic Indicators," Invited Speaker, EPI Forum, IADR/AADR/CADR 85th General Session, New Orleans, LA, March, 2007.

- "Several Tree Applications," Invited Speaker, 2nd Business Intelligence Symposium, BCBSF/SAS/UCF, Orlando, April 06, 2006.

- "Tree-Augmented Regression Analysis". Invited Speaker, Quality and Productivity Research Conference (QPRC) of American Statistical Association. Carlson School of Management, University of Minnesota, Minneapolis, Minnesota, May 18-20, 2005.

- "Tree-Augmented Regression Analysis". Contributed talk, JSM 2003, San Francisco, CA.

- "Tree-Augmented Regression Analysis". Sixth IMS New Researchers Conference, 2003.

- "Tree-Augmented Regression Analysis". 40th Anniversary of Department of Statistics, Texas A&M University, 2002.

- "Maximum Likelihood Regression Trees". Contributed talk, JSM 2002, New York City, New York.

- "Multivariate Survival Trees and Its Application on Tooth Prognosis," Department of Biostatistics, Harvard School of Public Health, 2001.

- "Multivariate Survival Trees and Its Application on Tooth Prognosis," Department of Statistics, University of Central Florida, 2001.

- "Multivariate Survival Trees by Goodness-of-Split," Department of Statistics, Ohio State University, 2001.

- "Multivariate Survival Trees," Department of Mathematics and Statistics, University of Minnesota-Duluth, 2001.

- "Multivariate Survival Trees," Department of Mathematics and Statistics, Texas Tech University, 2001.

Membership in Professional Societies

American Statistical Association (ASA)

American Mathematical Society (AMS)

International Chinese Statistical Association (ICSA)

Thesis/Dissertation Advising

Ph.D.

- George Quaye (Ph.D. in Data Science, UTEP, Expected in 2024). "*High-Dimensional Random Forests*".

- John Koomson (Ph.D. in Data Science, UTEP, Expected in 2024). "*Simultaneous Selection of Multiple Inflated Values and Variables in MIP Models*".

- Reagan Kesseku (Ph.D. in Data Science, UTEP, Expected in 2024). "*A Computationally Efficient Wald Test in GLM*".

- Chitra Karki (Ph.D. in Data Science, UTEP, Expected in 2024). "*Multiclass Classification for Predicting Protein Stability Changes*".

- Arvind Tripathi (Ph.D. in Biostatistics, UAB, 2015). "*Count Models with Multiple Inflations*". Now working at Eisai Inc., Woodcliff Lake, NJ.

M.S.

- Chalani Wijayasinghe (M.S. in Statistics, UTEP, 2014). "Variable Selection for Cox Proportional Hazards Models via Subtle Uprooting". Now working at NetJets Services, Inc.

- Yaa T. Wonkye (M.S. in Statistics, UTEP, 2015). "Pre-Tuned Ridge Regression and its Extension to GLM". Now a PhD student at Bowling Green State University.

- Pei Wang (M.S. in Statistics, UTEP, 2016). "Pre-Tuned Principal Components Regression". Now an Assistant Professor at Miami University.

- Isaac Ocloo (M.S. in Statistics, UTEP, 2017). "Evaluating Optimal Binary Split on Nominal Predictors". Now an Instructor at University of Georgia, Athens.

- Annette Pena (M.S. in Statistics, UTEP, 2017). "Prediction of Individualized Treatment Effects". Now an statistics instructor at UTEP.

- Razieh Nabi (M.S. in Statistics, UTEP, 2017). "**coxphMIC**: An R package for sparse estimation of Cox PH models via approximated information criterion". Now an assistant professor at Emory University.

- Zheng Zhang (M.S. in Statistics, UTEP, 2018). "Optimal Cutoff Point for Logistic Regression Prediction". Now an assistant professor at Suzhou University.

- Emmanuel K. Abrefa (M.S. in Statistics, UTEP, 2019). "Confidence Intervals for the Expected P-Value".

- Roland Fiagbe (M.S. in Statistics, UTEP, 2021). "High-Dimensional Random Forests". Now a PhD student at University of Central Florida.

- Eric Anto (M.S. in Statistics, UTEP, 2021). "Refined Moderation Analysis with Binary Outcomes". Now a PhD student at University of Utah.

- George Quaye (M.S. in Statistics, UTEP, 2021). "Making Valid Inference with Decision Tree". Now a PhD student in Data Science at UTEP.

- Denisse Urenda (M.S. in Statistics, UTEP, expected in 2022). "A New Test in *M*-Estimation". Now a PhD student in Data Science at UTEP.

Professional Services

Journal Review

- Editorial Board

  ◇ Associate Editor for *Journal of Computational and Graphical Statistics* (*JCGS*), (2010–2015).
  ◇ Editorial Board of *Nursing Research*, (2012 - 2018).
  ◇ Associate Editor for *Journal of Statistical Computing and Simulation* (*JSCS*), (2005–2007).

- Referee for Statistical Journals

  ◇ *Advances in Data Analysis and Classification*
  ◇ *Annals of Applied Statistics*
  ◇ *Australian & New Zealand Journal of Statistics*
  ◇ *BioData Mining*
  ◇ *Biometrics*
  ◇ *Biometrika*
  ◇ *Biostatistics*
  ◇ *Computational Statistics and Data Analysis (CSDA)*
  ◇ *Communications in Statistics – Simulation and Computation*
  ◇ *Communication in Statistics – Theory and Methods*

- ◇ *Data Mining and Knowledge Discovery*
- ◇ *International Journal of Biostatistics*
- ◇ *Journal of the American Statistical Association (JASA)*
- ◇ *Journal of Applied Statistics (JAS)*
- ◇ *Journal of Biopharmaceutical Statistics (JBS)*
- ◇ *Journal of Computational and Graphical Statistics (JCGS)*
- ◇ *Journal of Data Science*
- ◇ *Journal of Forecasting*
- ◇ *Journal of Statistical Software*
- ◇ *Journal of Machine Learning Research (JMLR)*
- ◇ *Journal of Modern Applied Statistical Methods*
- ◇ *Journal of the Royal Statistical Society, Series C (JRSSC)*
- ◇ *Journal of Statistical Computing and Simulation (JSCS)*
- ◇ *Journal of Statistical Planning and Inference*
- ◇ *Journal of Statistical Theory and Practice*
- ◇ *Journal of Nonparametric Statistics*
- ◇ *Lifetime Data Analysis*
- ◇ *Scandinavian Journal of Statistics*
- ◇ *Stat*
- ◇ *Statistics in Medicine (SIM)*
- ◇ *Statistics in Biopharmaceutical Research*
- ◇ *Statistica Sinica*
- ◇ *Statistics and Computing*
- ◇ *Statistics and Its Interface*
- ◇ *Statistics and Probability Letters*

- Other Non-Statistical Journals

  - ◇ *Mathematical Reviews* (2010–2018)
  - ◇ *Nursing Research* (2008–Present)
  - ◇ *Research in Nursing and Health* (*RINAH*) (2009–Present)
  - ◇ *Behavior Research Methods*
  - ◇ *BMC Bioinformatics*
  - ◇ *Clinical Trials: Journal of the Society for Clinical Trials*
  - ◇ *Computational and Mathematical Methods in Medicine*
  - ◇ *Cybernetics and Information Technologies, Systems & Applications (CITSA)*
  - ◇ *Expert Systems*
  - ◇ *IEEE Transactions on Pattern Analysis and Machine Intelligence*
  - ◇ *INFORMS Journal on Computing*
  - ◇ *International Journal of Behavioral Medicine*
  - ◇ *International Journal of Obesity*

◇ *International Journal of Operations & Quantitative Management*

◇ *International Journal of Public Opinion Research*

◇ *Journal of Biomedical Informatics*

◇ *Journal of Community Medicine & Health Education*

◇ *Journal of Stochastic Environmental Research & Risk Assessment* (*SERRA*)

◇ *Journal of Substance Abuse Treatment*

◇ *Nature – Machine Intelligence*

◇ *Pediatrics*

◇ *PLOS One*

◇ *Transportmetrica A*

Grant/Proposal/Report/Award Reviewer/Referee

- (2021, 2022, 2023)   Dodson Research Grant, UTEP

- (2020–2022)   ICSA (International Chinese Statistical Association) Awards Committee

- (2019, 2020, 2021)   Diana Natalicio Dissertation Research Fellowship

- (2019)   Clarkson University Ignite! Pilot Grant

- (2018)   The Patient-Centered Outcomes Research Institute (PCORI)

- (2017, 2019)   Review Panel for NIH Biostatistical Methods and Research Design (BMRD) Study Section and Center for Scientific Review (CSR)

- (2015, 2018, 2020, 2023)   Swiss National Science Foundation (SNSF).

- (2015, 2017, 2018)   The Research Foundation – Flanders (FWO), Belgium

- (2012)   Natural Sciences and Engineering Research Council of Canada (NSERC).

Statistical Computing

Skills

Proficiency in R, Python, SAS, and C

Considerable experiences with Splus, SPSS, Matlab, Python, Minitab, Pascal, and FORTRAN

Familiarity with Windows, Unix, and Mainframe operating systems.

R Packages

Su, X., Calhoun, P., and Fan, J.J. (2014). R package **MST** for constructing multivariate survival trees. Available from RAN at `http://cran.r-project.org/web/packages/MST/`

Su, X. and Abdolyousefi, R. N. (2016). R package **coxphMIC**: Sparse estimation of Cox PH Models via minimum approximated information criterion. Available from both CRAN and GitHub. CRAN: `https://cran.r-project.org/web/packages/coxphMIC/`.

Su, X. (2016). R package **glmMIC**: Sparse estimation of GLM via MIC. Available from GitHub at `https://github.com/xgsu/glmMIC`. To install, `devtools::install_github("xgsu\glmMIC")`

Su, X. (2017). R package **WOCR**: Weighted orthogonal components regression. Available from GitHub at `https://github.com/xgsu/WOCR`

Su, X. (2019). R package **OptimalCutpointsCI**: Bootstrap confidence intervals for the optimal cutpoint with logistic regression. Available from GitHub at `https://github.com/xgsu/OptimalCutpointsCI`

Patent

Lee, W.-Y., Gao, Q., and **Su, X.** (2021). "Methods related to volatile compounds in genitourinary cancers"(UTSE.P0207US/1001043548). Patent Number: US 16/170,553.