Lili Tian, Ph.D.
Professor, Associate Chair & Director of Graduate Studies
Department of Biostatistics
School of Public Health and Health Professions
The State University of New York at Buffalo
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Education

Ph.D. in Statistics; 8/2001, University of Rochester
M.A. in Statistics; 2/99, University of Rochester
M.A. in Physics; 2/97, University of Rochester

Research Interests

Methodological research interests:

- Statistical methods in classification metrics, biomarker/medical device evaluation and classification algorithms:

  - Novel classification accuracy metrics and related inferences under multi-classification.
  - Efficient classification algorithm/biomarker combination methods and related statistical inferences.
  - New statistical methods for biomarker evaluation.

- Exact and computationally efficient statistical procedures for reliability measures and other essential measures used in applied fields.

- General statistical methodology with applications in public health and medical science including empirical likelihood methods, missing data, meta-analysis, clinical trial design, goodness-of-fit testing, medical cost analysis.

Collaborative research areas:

Medical device research; clinical trials; biomedical research; cancer research; epidemiology; biobehavioral research; health policy; nursing.

Professional Appointments:

05/2013 - present   Professor
Department of Biostatistics
School of Public Health and Health Professions
The State University of New York at Buffalo

Adjunct Professor of Oncology
Roswell Park Comprehensive Cancer Center, Buffalo, NY

05/2005 - 05/2013   Associate Professor (tenured since May 2007)
Department of Biostatistics
School of Public Health and Health Professions
The State University of New York at Buffalo

Adjunct Associate Professor of Oncology
Roswell Park Comprehensive Cancer Center, Buffalo, NY

08/2001 - 7/2005   Assistant Professor (tenure track)
Department of Statistics at College of Medicine
University of Florida

Statistician
Institute for Child Health Policy (2004-2005)
Shands Cancer Center (2001-2005)
Biobehavioral Research Center (2001-2004)
University of Florida

Teaching Activities

- STA661 –Selected topics of modern statistics, Department of Biostatistics, The State University of New York at Buffalo (fall, 2013-2023).
- STA622–Asymptotic theory, Department of Biostatistics, The State University of New York at Buffalo (spring, 2010-14, 2016-2024).
- STA521–Introduction to theoretical statistics I, Department of Biostatistics, The State University of New York at Buffalo (fall, 2005-12).
- STA642–Topics in advanced modeling, Department of Biostatistics, The State University of New York at Buffalo (spring, 2006-9).
- Guest lecture for student seminar, "Generalized Inference Approach", Department of Electrical Engineering, The State University of New York at Buffalo, 2006.
- Guest lecture, STA 6092–Applied Statistical Practice, "How to become an effective applied statistician", Department of Statistics, University of Florida, 2003.
- Guest lecture for nursing students, "Essential statistical issues and procedures", College of Nursing, University of Florida, 2003.
- STA6166–Introduction to Biostatistics, Department of Statistics, University of Florida (spring, 2002).
- Lecturer, Physics 217 – Electromagnetism I, Department of Physics, University of Rochester (summer, 1997).
- Lecturer, Physics Department, Jinan University, Shandong, China (1991-1994).

Research Supervision of Graduate Students (UB: The State University of New York at Buffalo; UF: University of Florida)

As chair of committee (major academic adviser):

- Nan An, Department of Biostatistics, UB, Ph.D., 2022-
- Xiaoyi Ma, Department of Biostatistics, UB, Ph.D., 2022-
- Nan Nan, Department of Biostatistics, UB, Ph.D., 2020- (expected to graduate August 2004).
- Jia Wang, Department of Biostatistics, UB, expected to graduate with Ph.D., June 2024.
- Yi Gao, Department of Biostatistics, UB, graduated with Ph.D., February, 2022.
- Jia Hua, Department of Biostatistics, UB, graduated with Ph.D., August 2020.
- Yingdong Feng, Department of Biostatistics, UB, graduated with Ph.D., June 2019.
- Qianya Qi, Department of Biostatistics, UB, graduated with Ph.D., June 2019.
- Dan Wang, Department of Biostatistics, UB, graduated with Ph.D., June 2016.
- Tuochuan Dong, Department of Biostatistics, UB, graduated with Ph.D., Feb, 2014.
- Jingjing Yin, Department of Biostatistics, UB, graduated with Ph.D., June, 2014.
- Tuochuan Dong, Department of Biostatistics, UB, graduated with M.A. 2013.
- Kris Attwood, Department of Biostatistics, UB, graduated with Ph.D. Aug 2012.
- Le Kang, Department of Biostatistics, UB, graduated with Ph.D. May 2012 (co-chair: Dr. Carter).
- Chin-Ying Lai, Department of Biostatistics, UB, graduated with Ph.D. 2011.
- Qianya Qi, Department of Biostatistics, UB, graduated with M.A., 2016.
- Jingjing Yin, Department of Biostatistics, UB, graduated with M.A. 2011.
- Lu Wang, Department of Biostatistics, UB, graduated with M.A. 2010.
- Tanushree Prasad, Department of Biostatistics, UB, graduated with M.A. 2010.
- Chong Wang, Department of Biostatistics, UB, graduated with M.A. 2010.
- Chin-Ying Lai, Department of Biostatistics, UB, graduated with M.A. 2008.
- Usha Thamattoor, Department of Biostatistics, UB, graduated with M.A. 2008.
- Abu Bashar Rahman, Department of Biostatistics, UB, graduated with M.A. 2007.

As committee member (without specification: Biostatistics; EEH: Department of Epidemiology and Environmental Health)

Xueqing Zhang (UB, Ph.D., 2022-), Sarah Lima (Nursing, UB, 2023-), Ashleigh Holmes (Nursing, UB, Ph.D 2023-), Surui Hou (UB, Ph.D, 2023), Jon Javor (UB, MA, 2022), Sarah Quinones (EEH, UB, Ph.D 2023), Lindsey Mattick (EEH, UB, Ph.D 2023), Zhongzheng Niu (EEH, UB, Ph.D 2021), Zehua Zhou (UB, Ph.D, 2020), Ziqian Chen (UB, Ph.D, 2020), Alexandra Grippo (EEH, MA, 2019), Mingmei Tian (UB, MA, 2016-2019), Han Yu (UB, Ph.D, 2018), Xing Yang (UB, Ph.D, 2018), Terence Tenue (UB, MA, 2016), Lingfeng Guo (UB, MA, 2016), Xing Yang (UB, MA, 2015), Qingkun Shan (UB, MA, 2015), Mark Baker (UB, Ph.D, 2015), Joseph Consiglio (UB, Ph.D, 2014), Yi Shi (UB, Ph.D, 2014), Andre Weeks (UB, MPH, 2014), Ly Minh Nguyen (UB, MPH, 2014), Jie Gong (UB, MA, 2014), Isaac Dompreh (MPH, UB, 2013), Chunyan Diao (UB, MA, 2013), Xiaobin Liu (UB, MA, 2013), Tengda Lin (UB, MPH, 2012), Bruck Adams (UB, MPH, 2013), Tuochuan Dong (UB, M.A.,

2013), Wei Lai (UB, Ph.D, 2013), Yanli Zhang (UB, Ph.D., 2013, EEH), Mark Baker (UB, M.A, 2013), Guogen Shan (UB, Ph.D., 2011), Qing Yuan (UB, M.A., 2011), Wei Liang (UB, M.A., 2011), Wei Lai (UB, M.A., 2011), Danning Huang, (UB, M.A., 2011), Yali Zhang, (UB, MPH, 2011), Terry Mashtare (U.B., Ph.D., 2010), Tingting Zhuang (UB, M.A., 2010), Yuanyue Gao (UB, M.A., 2010), David Cavanaugh (UB, MA, 2010), Qianqian Zhu (UB, M.A., 2009), Le Kang (UB, M.A., 2009), Dongliang Wang (UB, Ph.D., 2009), Gary Zirpoli (UB, M.A., 2009), Ryan Danison (UB, M.A., 2008), Vincent Girardi (UB, M.A., 2008), Wei Deng (UB, M.A., 2007), Penkarn Kanjanarat (Pharmacy, UF, Ph.D., 2005), Steven Graham (Nursing, UF, Ph.D., 2005), Kelian Sun (Statistics, UF, M.A., 2005), Youngkyoung Min (Statistics, UF, M.A., 2004), Beverly Childress (Nursing, UF, Ph.D., 2004), Elizabeth Beasley (IFAS, UF, M.A., 2003), Kelu Guo (Engineering, UF, M.A., 2003),

Selected Current Professional Service/Honors

- **American Statistical Association** (ASA) fellow, elected 2024.
  Citation: *For key and significant contributions to statistical methodology for biomarker evaluation   and biomarker combination, for leadership in statistical education and for exemplary service to the statistics profession.*

- Statistical advisory panel member for *Nature Medicine* 2024-.
  https://www.nature.com/nm/statistics-advisory-panel
- Editor-in-Chief (with Marta Garcia-Finana & Chris Metcalfe), *Statistical Methods in Medical Research*, 2021-.

- President of ASA Buffalo/Niagara chapter 2020-.
- Member of ASA Committee on Applied Statisticians (CAS), 2019 - .

- External advisory committee, NSF-funded research traineeship "*Detecting and Addressing Bias, Humans, and Institutions*". Contact PI: Susan E. Brennan, Ph.D., Stony Brook University, 2024. https://www.stonybrook.edu/commcms/bias-nrt/_people/advisoryboard.php
- Member of Data Safety and Monitoring Board for clinical trial "*Blood Pressure Lowering Strategies to Eliminate Disparities (BLESSED)*" funded by NIH (R01MD018193). Contact PI: Jiang He, Ph.D., Tulane University,   2023-.
- Panelist/biostatistics specialist for grant review, *Congressionally Directed Medical Research Programs (CDMRP), Department of Defense*, fiscal year 2015-.
- Scientific Advisory Board, Canget BioTekpharma, LLC (http://www.canget-biotek.com/leadership.php, a Roswell Park Comprehensive Cancer Center spin-off company), 2012-.

Current Service to University, School and Department (UB: The State University of New York at Buffalo)

- Associate Chair, Department of Biostatistics, UB, 2015-Present.
- Director of Graduate Studies, Department of Biostatistics, UB, 2008-present.
- Chair of Graduate Program Admission Committee, Department of Biostatistics, UB, 2008-present.
- Chair of Graduate Curriculum Committee, Department of Biostatistics, UB, 2018 - present.
- Chair of Exam Committees (comprehensive and qualifying), Department of Biostatistics, UB, 2008-present.
- School of Public Health and Health Professions Promotion Committee, UB, 2009, 2010, 2014, 2016, 2017, 2020, 2022, 2024.

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Publications on Peer Reviewed Journals (*corresponding author, $^\#$senior author).

118. Wang J and **Tian, L.***# (**2024**). Optimal cut-point selection methods under binary classification when subclasses are involved. *Pharmaceutical Statistics*, in minor revision.

117. Wang J, Yin J and **Tian, L.** *#(2023). Evaluating Joint Confidence Region of Hypervolume under ROC Manifold and Generalized Youden Index. *Statistics in Medicine*, 43.5 (2024): 869-889

116. LaPointe, Sarah, Pauline Mendola, Shao Lin, **Lili Tian**, Ana Bonell, Clement Adamba, and Tia Palermo (**2024**). Impact of cash transfers on the association between prenatal exposures to high temperatures and low birthweight: Retrospective analysis from the LEAP 1000 study. *BJOG: An International Journal of Obstetrics & Gynaecology, accepted*.

115. Niu, Z., Mu, L., Buka, S. L., Loucks, E. B., Wang, M., **Tian, L.**, & Wen, X. (**2024**). Involuntary tobacco smoke exposures from conception to 18 years increase midlife cardiometabolic disease risk: a 40-year longitudinal study. *Journal of Developmental Origins of Health and Disease*, 1-10.

114. Nan N and **Tian, L.***# (**2023**). A new accuracy metric under three classes when subclasses are involved and its confidence interval estimation. *Statistics in Medicine*, 42.28: 5207-5228.

113. Grippo, Alexandra, Kexin Zhu, Edwina H. Yeung, Erin M. Bell, Matthew R. Bonner, **Lili Tian**, Pauline Mendola, and Lina Mu. Indoor air pollution exposure and early childhood development in the Upstate KIDS Study (2023). *Environmental Research 234*, 116528. DOI: 10.1016/j.envres.2023.116528.

112. Quinones, Sarah, Shao Lin, **Lili Tian,** Pauline Mendola, Jacob Novignon, Clement Adamba, and Tia Palermo (**2023**) The dose-response association between LEAP 1000 and birthweight–no clear mechanisms: a structural equation modeling approach." *BMC Pregnancy and Childbirth* 23, 1: 364.

111. Quinones, Sarah, Pauline Mendola, **Lili Tian**, Shao Lin, Jacob Novignon, Gustavo Angeles, and Tia Palermo (**2023**) Ghana's livelihood empowerment against poverty (1000) program seasonally impacts Birthweight: a difference-in-differences analysis. *International Journal of Public Health,* 68: 1605336.

110. Kalot, M.A., Bahuva, R., Pandey, R., Farooq, W., Mir, A., Khan, A., Kerling, D., Aftab, H., Kovacs, A., Gupta, S., Smith, M., **Tian L**, Amuthan R. and Sharma U.C. (**2023**) Risk Factors Associated with Higher Mortality in Patients with Cardiac Implantable Electronic Device Infection. *Journal of Cardiovascular Electrophysiology*, 34(3), 738-747.

109. Mattick, L.J., Bea, J.W., Hovey, K.M., Wactawski-Wende, J., Cauley, J.A., Crandall, C.J., **Tian, L**. and Ochs-Balcom, H.M. (**2023**). Follicle-stimulating hormone is associated with low bone mass in postmenopausal women. *Osteoporosis International*, 34(4), 693-701.

108. Gao Y. and **Tian, L*#** (**2022**)   Confidence interval estimation for the difference and ratio of the means of two gamma distributions, *Communication in Statistics-Simulation and Computation*, 1-14.

107. Gao Y. and **Tian, L*#** (**2022**)   Confidence interval estimation for the difference of two correlated gamma means, *Journal of Statistical Computation and Simulation*, 1-16.

106. Niu, Z., Wen, X., Wang, M., **Tian, L.**, & Mu, L. (**2022**). Personal exposure to benzene, toluene, ethylbenzene, and xylenes (BTEXs) mixture and telomere length: a cross-sectional study of the general US adult population. *Environmental Research*, 209, 112810.

105. Jingjing Yin, Hani Samawi, **Lili Tian** (**2022**) Joint inference about the AUC and Youden index for paired diagnostic tests, *Statistics in Medicine,* 41(1), 37-64.

104. Gao Y., **Tian L. *#** (**2021**) Confidence interval estimation for sensitivity and difference between two sensitivities at a given specificity under tree ordering. *Statistics in Medicine*, 40(16): 3695–3723.

103. Niu, Zhongzheng, Xiaozhong Wen, Stephen L. Buka, Meng Wang, **Lili Tian**, Eric B. Loucks, Laura D. Kubzansky, and Lina Mu (**2021**) Associations of telomere length at birth with predicted atherosclerotic lesions and cardiovascular disease risk factors in midlife: A 40-year longitudinal study. *Atherosclerosis,* 333: 67-74.

102. Feng Y. and **Tian, L*#** (**2022**)   New classification accuracy measures and cut-point selection methods for biomarkers under multiple ordered disease stages, *Pharmaceutical Statistics,* 21.1: 220-240.

101. Jingjing Yin, Fedelis Mutiso, Lili **Tian** (**2021**) Joint hypothesis testing of the Area Under the ROC curve and the Youden index, Pharmaceutical Statistics, *Pharmaceutical Statistic***s,** 20 (3): 657-674.

100. Jia Hua and **Lili Tian*#** (**2021**)   Combining Multiple Biomarkers to Maximize the Diagnostic Accuracy under Ordered Multi-class Setting, *Statistical Methods in Medical Research*, 30.4: 1101-1118.

99. Feng Y. and **Tian, L*#** (**2021**) Issues and solutions in biomarker evaluation when subclasses are involved under binary classification, *Statistical Methods in Medical Research*, 30(1), 87-97.

98. Qi, Q, Yan, L and **Tian, L*#** (**2020**) Analyzing partially paired data: when can the unpaired portion(s) be safely ignored? *Journal of Applied Statistics*, pp 1-19.

97. Jia Hua and **Lili Tian*#** (**2020**)   A comprehensive and comparative optimal cut-point selection methods for diseases with multiple ordinal stages, *Journal of Biopharmaceutical Statistics*, 30(1), 46-68.

96. Attwood K. and **Tian L.** (**2020**) Confidence interval estimation of the Youden index and corresponding cut-point for a combination of biomarkers under normality. *Communications in Statistics-Theory and Methods*, 51(2), 501-518.

95. Dan Wang, Yingdong Feng, Kristopher Attwood, **Lili Tian*#** (**2019**)   Optimal threshold selection methods under tree or umbrella ordering, *Journal of Biopharmaceutical Statistics,* 29(1), 98-114.

94. Qi, Q, Yan, L and **Tian, L*#** (**2019**) Testing equality of means in partially paired data with incompleteness in single response, *Statistical Methods in Medical Research*, 28, 1508-1522.

93. Feng Y. and **Tian, L*#** (**2019**) Measuring diagnostic accuracy for biomarkers under tree-

ordering, *Statistical Methods in Medical Research*, 28, 1328-1346.

92. Singh, Anurag K., Jorge A. Gomez-Suescun, Kevin L. Stephans, Jeffrey A. Bogart, Gregory M. Hermann, **Lili Tian**, Adrienne Groman, and Gregory M. Videtic (**2019**) One Versus Three Fractions of Stereotactic Body Radiation Therapy for Peripheral Stage I to II Non-Small Cell Lung Cancer: A Randomized, Multi-Institution, Phase 2 Trial." *International Journal of Radiation Oncology, Biology, Physics* 105, no. 4: 752-759.

91. Yanli Li, Richard W. Browne, Matthew R. Bonner, Furong Deng, **Lili Tian** and L.-N. Mu (**2019**) Responses of Serum Chemokines to Dramatic Changes of Air Pollution Levels, *Biomarkers*, 712-719.

90. Yin, J, Nakas, C, **Tian L** and Reiser, B. (**2018**) Confidence intervals for differences between volumes under ROC surfaces and generalized Youden indices. *Statistical Methods in Medical Research*, 27, 675-688.

89. Zeinab Farhat, Richard W. Browne, Matthew R. Bonner, **Lili Tian**, Furong Deng, Mya Swanson, Lina Mu (**2018**), How do glutathione antioxidant enzymes and total antioxidant status respond to air pollution exposure? *Environmental International*, 112, 287-293.

88. Wang D, **Tian L,** Zhao Y. (**2017**) Smoothed empirical likelihood for the Youden index. *Computational Statistics and Data Analysis*, 115, 1-10.

87. Dan Wang, **Lili Tian*# (2017**) Parametric methods for confidence interval estimation of overlapping coefficient, **Computational Statistics and Data analysis**, 106, 12-26.

86. Xiaobin Liu, Guogen Shan, **Lili Tian**, Changxing Ma (**2017**) Homogeneity test for correlated data in ophthalmologic studies, *Communication in Statistics*, 46, 1-9.

85. Dan Wang, Kristopher Attwood, and **Lili Tian*# (2016**), Receiver Operating Characteristic Analysis under Tree Orderings of Disease Classes**, *Statistics in Medicine*, 35, 1907-1926.

84. Kang L, Aiyi Liu, **Tian L.*# (2016**) Linear combination methods to improve diagnostic/prognostic accuracy on future observations. *Statistical Methods in Medical Research*, 25(4) 1359-80.

83. Jingjing Yin, **Lili Tian*# (2016**) Exact Confidence Band for Binormal ROC Curve under Small Samples, *Statistics in Biopharmaceutical Research*, 8 (1), 22-34.

82. Yan, L., **Tian, L.,** and Liu, S. (**2015**) Combining large number of weak biomarkers based on AUC, *Statistics in Medicine*, 34, 3811–3830.

81. Tuochuan Dong, Kristopher Attwood, Alan Hutson, Song Liu and **Lili Tian*# (2015**) A New Diagnostic Accuracy Measure and Cut-points Selection Criterion**. *Statistical Methods in Medical Research*, 26(6), 2832-2852.

80. Dongliang Wang, Xueya Cai, **Lili Tian** (**2015**) Interval Estimation for the Gini Index of Shifted Exponential Distribution under Type-II Double Censoring. *Health Services & Outcomes Research Methodology (HSOR)*, 15, 69-81.

79. Tuochuan Dong, **Lili Tian*# (2015**) Empirical likelihood-based interval for the sensitivity to the early stage with three ordinal diagnostic groups. *Journal of Biopharmaceutical Statistics*, 25(6), 1215-1233.

78. Jingjing Yin, **Lili Tian*# (2014**) Joint Inference about Sensitivity and Specificity at Optimal Cut-point. *Computational Statistics and Data Analysis*, 7, 1-13.

77. Jingjing Yin, **Lili Tian*# (2014**) Optimal Linear Combinations of Multiple Diagnostic Biomarkers Based on Youden Index. *Statistics in Medicine*, 33, 1426-1440.

76. Jingjing Yin, **Lili Tian*# (2014**) Joint inference about Area under ROC curve and Youden Index. *Statistics in Medicine,* 33, 985-1000.

75. Attwood, C., **Tian, L.#,** Xiong, C. (**2014**) Cut-point selection when there are three ordinal diagnostic groups. *Journal of Biopharmaceutical Statistics*, 24(3), 608-633.

74. Dong, T., Kang, L., Hutson, AD and Xiong, C. **Tian, L.*#** (**2014**) Parametric and non-parametric confidence intervals for the difference of sensitivities to the early disease stage between two markers. *Biometrical Journal*, 56(2), 270-286.

73. Yanli Li, Richard W. Browne, Matthew R. Bonner, Furong Deng, **Lili Tian** and L.-N. Mu (**2014**) Positive Relationship between Total Antioxidant Status and Chemokines Observed in Adults. *Oxidative Medicine and Cellular Longevity*, Article ID 693680, 6 pages. http://dx.doi.org/10.1155/2014/693680.

72. Lina Mu, Furong Deng, **Lili Tian**, Yanli Li, Jingjing Ying, Richard W Browne, Zuo-Feng Zhang, Matthew Bonner (**2014**) Peak Expiratory Flow and Change in Particulate Matter Air Pollution during the Beijing Olympics: a Panel Study. *Environmental Research*, 133, 4-11.

71. Andrew C. Haller, Wei Tan, Rochelle Payne-Ondracek,3 Willie Underwood, **Lili Tian,** Carl Morrison, and Fengzhi Li (**2014**) High SPDEF May Identify Patients: Who Will Have a Prolonged Response to Androgen Deprivation Therapy, *The Prostate* 74, 509-519.

70. Li, X., Xiao-Hua Zhou, **Tian, L.** (**2013**) Interval estimation for the mean of lognormal distributed medical costs with zeros. *Statistics and Probability Letters*, 83(11), 2447-2453.

69. Kang, L, Xiong, C. **and Tian, L.*#** (**2013**) Estimating confidence intervals for the difference in diagnostic accuracy with three ordinal diagnostic categories without a gold standard. *Computational Statistics & Data Analysis,* 68, 326-338.

68. Chengjie Xiong, Gerald van Belle, Kewei Chen, J. Philip Miller, **Lili Tian,** Jingqin Luo, Feng Gao, Yan Yan, Ling Chen, John C Morris, Paul Crane (**2013**) Combining Multiple Markers to Improve the Longitudinal Rate of Progression-Application to Clinical Trials on the Early Stage of Alzheimer's Disease. *Statistics in Biopharmaceutical Research*, 5(1), 54-66.

67. Tian, L. (**2013**) Confidence interval estimation for sensitivity at a fixed level of specificity for the combined marker. *Journal of Biopharmaceutical Statistics*, 23(3), 499-512.

66. Kang L, **Tian L.*#** (**2013**) Estimation of the volume under the ROC surface with three ordinal diagnostic categories. *Computational Statistics & Data Analysis*, 62, 39-51.

65. Kang L, Xiong CJ, Crane P, **Tian L*#,** (**2013**) Linear combinations of biomarkers to improve diagnostic accuracy with three ordinal diagnostic categories. *Statistics in Medicine*, 32, 631-642.

64. Josephia R. Muindi, Araba A. Adjei, Zengru R Wu, Isabel Olson, Huayi Huang, Adrianne Groman, **Lili Tian ,** Prashant Singh, Lara E. Sucheston , Candace S. Johnson, Donald L. Trump, Marwan G. Fakih (**2013**) Serum Vitamin D Metabolites in Colorectal Cancer Patients Receiving Cholecalciferol Supplementation: Correlation with Polymorphisms in the Vitamin D Genes. *Hormones and Cancer*, 4(4) 242-250.

63. Tian, L.*, Li, X., and Yan, L. (**2012**) Testing equality of generalized treatment effects. *Journal of Biopharmaceutical Statistics,* 22, 582-595.

62. Li, X., **Tian, L.*,** Wang, J. and Muindi, J. (**2012**) Testing equality of generalized treatment effects. *Computational Statistics & Data Analysis*, 56, 2129-2138.

61. Lai, C., **Tian, L#*,** Schisterman, E. (**2012**) Exact confidence intervals estimation for the Youden Index and its corresponding optimal cut-point. **Computational Statistics & Data Analysis**, 56, 1103-1114.

60. Dong, T., **Tian, L.*#**, Hutson, AD and Xiong, C. (**2011**) Parametric and nonparametric confidence intervals of the probability of identifying early disease stage given sensitivity and specificity with three ordinal diagnostic groups. *Statistics in Medicine*, 30, 3532-3545.

59. Ma, C., Vexler, A., Schisterman, E. and **Tian, L. (2011)** Cost-efficient Designs Based on Linearly Associated Biomarkers. *Journal of Applied Statistics*, 38, 2739-2750.

58. Vexler, A., Shan, G., Kim, S., Tsai, L. **Tian, L**. and Hutson, A.D. (**2011**) An Empirical Likelihood Ratio Based Goodness-of-Fit Test for Inverse Gaussian Distributions. *Journal of Statistical Planning and Inference*, 141, 2128-2140.

57. Joseph J.Wakshlag, Kenneth M. Rassnicka1, Erin K. Malonea1, Angela M. Strublea1, Priyanka Vachhania1, Donald L. Trump and **Lili Tian** (**2011**) Cross-sectional study to investigate the association between vitamin D status and cutaneous mast cell tumors in Labrador retrievers, *British Journal of Nutrition*, 106, 60-63.

56. Deeb KK, Luo W, Karpf AR, Omilian AR, Bshara W, **Tian L**, Tangrea MA, Morrison CD, Johnson CS, Trump DL. (**2011**) Differential vitamin D 24-hydroxylase/CYP24A1 gene promoter methylation in endothelium from benign and malignant human prostate, *Epigenetics,* August 6(8):994-1000.

55. Manpreet K. Chadha, Marwan Fakih, Josephia Muindi, **Lili Tian**, Terry Mashtare, Candace S. Johnson, Donald Trump (**2011**) Effect of 25-hydroxyvitamin D status on serological response to influenza vaccine in prostate cancer patients, *The Prostate*, 71, 368-372.

54. Tian, L.*, Xiong, C., Lai, C. and Vexler, A. (**2011**) Exact Confidence Interval Estimation for the Difference in Diagnostic Accuracy with Three Ordinal Diagnostic Groups. *Journal of Statistical Planning and Inference*, 141, 549-558.

53. Vexler, A., Yu, J., **Tian, L**., Liu, S. (**2010**) Two-sample nonparametric likelihood inference based on incomplete data with an application to a pneumonia study, *Biometrical Journal,* 52, 348-361.

52. Kang, L., Vexler, L.#, **Tian, L.#,** Maureen, C. and Louis, G.M. (**2010**) Empirical and Parametric Likelihood Interval Estimation for Populations with Many Zero Values: Application for Assessing Environmental Chemical Concentrations and Reproductive Health. *Epidemiology*, 21, S58-S63.

51. Yu, J., Vexler, A., **Tian, L.** (**2010**) Analyzing incomplete data subject to a threshold using empirical likelihood methods: An application to a pneumonia risk study in an ICU setting. *Biometrics,* 66(1), 123-30.

50. Deepika Lal, Jennifer Park, Kellie Demock, Joseph Marinaro, Amanda Perez, Mei-Hui Lin, **Lili Tian,** Terry Mashtare, Michael Murphy, Joshua Prey, Meir Wetzler, Gerald Fetterly, and Eunice Wang (**2010**) Aflibercept exerts antivascular effects and enhances levels of anthracycline chemotherapy in vivo in human acute myeloid leukemia models, *Molecular Cancer Therapeutics*, 9(10), 2737-2750.

49. Manpreet K. Chadha, **Lili Tian,** Terry Mashtare, Valencia Payne, Carrie Silliman, Ellis Levine, Michael Wong, Candace Johnson, Donald L. Trump (**2010**) Phase 2 trial of weekly intravenous 1,25 dihydroxy cholecalciferol (Calcitriol) in combination with dexamethasone for castrationresistant prostate cancer, *Cancer,* 116(9), 2132-2139

48. Tian, L (**2009**) "Confidence interval estimation of partial area under curve based on combined biomarkers". *Computational Statistics & Data Analysis,* 54, 466-472.

47. Tian, L.*, Vexler, A., Yan, L. and Schisterman, E. (**2009**) Confidence Interval Estimation of the Difference Between Paired AUCs Based on Combined Biomarkers, *Journal of Statistical Planning and Inference,* 39, 3725-3732.

46. Tian, L.*, Ma, C. and Vexler, A. (**2009**) A parametric bootstrap test for comparing heteroscedastic regression models, *Communication in Statistics*, 38, 1026-1036.

45. Ma, C. and **Tian, L.*** (**2009**) A parametric bootstrap approach for testing equality of inverse

Gaussian means under heterogeneity, *Communication in Statistics*, 38, 1153-1160.

44. Donald L. Trump, Manpreet K. Chadha, Annette Y. Sunga, Marwan G. Fakih, Umeer Ashraf, Carrie G. Silliman, Bruce W. Hollis, Mary K. Nesline, **Lili Tian,** Wei Tan and Candace S. Johnson (**2009**) Vitamin D deficiency and insufficiency among patients with prostate cancer. *British Journal of Urology International*, vol 104, p 909-914.

43. Marwan Fakih, Donald Trump, Candace Johnson, **Lili Tian,** et al. (**2009**) Chemotherapy Is Linked to Severe Vitamin D Deficiency in Patients with Colorectal Cancer, *International Journal of Colorectal Diseases*, 24, 219-224.

42. **Tian, L**. (**2008**) Confidence intervals for P(Y1 > Y 2) with normal outcomes in linear models, *Statistics in Medicine*, 27, 4221-4237.

41. **Tian, L.*** and Wilding, G. E. (**2008**) Inference on a common correlation coefficient, *Computational Statistics & Data Analysis*, 52, 4872-4877.

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