

Xianming TAN

Work Address

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Address of Clinical Investigation

UNC Hospitals
The University of North Carolina at Chapel Hill
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Education

Ph.D., Statistics, Nankai University, Tianjin, China, 2005
M.S., Economics, Huazhong University of Science & Technology, Wuhan, China, 1998
B.S., Mathematics, Beijing Normal University, Beijing, China, 1995

Employment

Research Professor	2023-Present
Department of Biostatistics, University of North Carolina at Chapel Hill	
Research Associate Professor	2015-2023
Department of Biostatistics, University of North Carolina at Chapel Hill	
Biostatistician	2011 – 2015
Research Institute of the McGill University Health Centre, Canada	
Postdoctoral Research Associate	2008 - 2011
The Methodology Center, Pennsylvania State University, State College, PA	
Postdoctoral	2007 - 2008
Clinical Trials Group, NCIC, Kingston, ON, Canada	
Visiting Scholar	2006 – 2006
Department of Statistics and Actuarial Science, University of Waterloo, ON, Canada	
Lecturer	2003 – 2006
School of Mathematical Sciences, Nankai University, Tianjin, China	
Supply Chain Planer	1998 – 2000
Huawei Technologies Co., Ltd, Shenzhen, China	

ACADEMIC HONORS AND AWARDS

1. Best poster award, "Detecting Safety Signals in Randomized Clinical Trials" (poster), 5th Duke Annual Statistics Symposium (DISS), Duke University, 2017.
2. The Canadian Journal of Statistics Award. "Variable selection and inference procedures for marginal analysis of longitudinal data with missing observations and covariate measurement error", 2015.

PROFESSIONAL SOCIETY MEMBERSHIP

- American Statistical Association (ASA), 2007 - 2011
- International Chinese Statistical Association (ICSA), 2011, 2013
- Statistical Society of Canada, 2008

GRANT AND OTHER RESEARCH SUPPORT (ONGOING)

Leadership Role

1. UNC P01 Program for Translational Research of ENdometrial cancer Disparities (UNC TREND) Re-submitting
Lead PI: Dr. Victoria Bae-Jump.
Role: Lead of Biostatistics and Bioinformatics Core.

Co-Investigator

1. 5-P30-CA016086-45 (Earp) 2020-2025
National Cancer Institute
Cancer Center Core Support Grant: - Biostatistics and Data Management Core
2. SU2C Grant # 6228 (Henderson) 2022-2025
Stand Up to Cancer (SU2C)
Southeastern Consortium for Lung Cancer Health Equity (SC3)
3. 1R01CA199064-01A2 (Yeh) 2021-2026
National Cancer Institute
Tumor Subtypes and Therapy Response in Pancreatic Cancer
4. R01-HL153744 (Lawrence) 2021-2025
National Heart, Lung, and Blood Institute
Design and Application of Photoresponsive Modules in Circulating Erythrocytes
5. Not assigned (Liu) 2022-2024
National Institutes of Health
Cancer Hijacks Enzyme Substrate Mutations to Facilitate Tumorigenesis
6. 1-R01-CA244825-01A1 (Liu) 2020-2025
National Institute of Health
Elucidating novel functions of cGAS in breast cancer
7. 1-R01-NR019245-01 (Santos) 2020-2025
National Institute of Health
Genetic and Epigenetic Effects on Childhood Cognitive Trajectories
8. 1-U01-DE029754-01 (Yarbrough) 2020-2025
National Institute of Health
Observational study to validate HPV DNA genotyping and prognostic genomic biomarkers for diagnosis and treatment of HPV-associated HNSCC
9. Not Assigned (Ray) 2021-2024
ASCO/Conquer Cancer Foundation
Validation and usability testing in an academic comprehensive cancer center of a prognostic calculator for 30-day mortality in patients with metastatic breast cancer

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| 10. | 1-R01-CA237129-02 (Nyante)
National Cancer Institute
Understanding the Biological Basis for the Association Between Parenchymal Texture Features and Breast Cancer Risk | 2019-2024 |
| 11. | 1-R01-GM130866-01 (Giudice)
National Institute of Health
Alternative Splicing Regulation and Membrane Trafficking | 2019 - 2024 |
| 12. | UH3-CA233251 (Reuland)
National Cancer Institute
Scaling Colorectal Cancer Screening Through Outreach, Referral, and Engagement (SCORE): A State-Level Program to Reduce Colorectal Cancer Burden in Vulnerable Populations | 2018-2023 |
| 13. | 5-R01-NR016990 01-02 (Song) 2017 – 2023
National Institute of Nursing Research
Efficacy of a Couple-focused, Tailored, Symptom Self-Management mHealth Intervention for Prostate Cancer Patients and Partners | |
| 14. | 5-R01-LM013329-02 (Nirjon)
National Library of Medicine
SCH: INT: AURA - Connecting Audio and Radio Sensing Systems to Improve Care at Home | 2019-2023 |

GRANT AND OTHER RESEARCH SUPPORT (COMPLETE)

Principal Investigator

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|----|--|-----------|
| 1. | TraCS Pilot \$50k grant 550KR221923 (PI).
University of North Carolina at Chapel Hill
Building an Intelligent EMA System to Study the Feasibility of Conducting EMA Studies on At Risk Children and Adolescents. | 2020-2022 |
| 2. | NCBC Grant #2019-FLG-3856 (Co-PI)
North Carolina Biotechnology Center
Targeting Cancer-Hijacked Mutational Landscape for Novel Cancer Therapy. | 2019-2020 |
| 3. | UNC Executive Vice Chancellor & Provost \$7k Award (PI).
University of North Carolina at Chapel Hill
Optimal Design of Ecological Momentary Assessment Studies: A Pilot Study on Sampling Frequency. | 2017-2018 |
| 4. | Chinese NSF 10601026. (PI)
China National Scientific Foundation
Inference and Application of Mixture Models. | 2006-2009 |

Co-Investigator (Recent 3 years)

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|----|---|-----------|
| 1. | Not Assigned (Bennett)
Leukemia & Lymphoma Society; Beat AML, LLC
Beat AML PRO Consulting Agreement | 2022-2023 |
| 2. | R56-AI158314 (Ting)
NIAID
Role and Mitigation of Inflammasomes and Inflammation During COVID-19 | 2021-2022 |

3. 5-R21-CA231847-02 (Bower) 2019-2021
National Cancer Institute
DHFRP1 pseudogene status as a biomarker of chemotherapy response and outcomes in African-American breast cancer patients
4. W81XWH1910813 (Zhang) 2019 – 2021
Department of Defense
TBK1 serves as a novel therapeutic target in kidney cancers with VHL loss
5. 1-R21-CA235029-01 (Ryan) 2019 – 2020
National Cancer Institute
Interval Exercise Training as a Therapy for Endometrial Cancer
6. 1-UG3-CA233251-01 (Reuland) 2018-2019
National Cancer Institute
Scaling Colorectal Cancer Screening Through Outreach, Referral, and Engagement (SCORE): A State-Level Program to Reduce Colorectal Cancer Burden in Vulnerable Populations
7. 1-K23-NR017898-01 (Santos) 2018 - 2021
NIH (NINR)
Placental DNA Methylation, Maternal Hardship and Child Neurodevelopmental Outcomes
8. 5-R01-GM067113-13-15 (Xiong) 2016 – 2020
NIH (NIGMS)
Epigenetic Control by Ubiquitylation
9. 2-R01-A1029564-26 (Ting) 2018 – 2023
National Cancer Institute
Molecular and Functional Analysis of NLR Family Members
10. 8100058892 (Ibrahim) 2009 – 2022
Merck Sharp & Dohme Corp.
Methods for Interim Analysis with Incomplete Adjudication of Events

PUBLICATIONS (PEER REVIEWED, JOURNAL)

(* indicates student.)

Methodology

1. Hauser*, P., Tan, X., Chen, F., Che, R., and Ibrahim, J. G. Bayesian Joint Modeling of High-Dimensional Discrete Multivariate Longitudinal Data Using Generalized Linear Mixed Models. (In press).
2. **Tan, X.**, Wang, W., Zeng, D., Liu, G. F., Diao, G., Jafari, N., Alt, E. M., and Ibrahim, J. G. Safety signal detection with control of latent factors. In: *Statistics in Medicine* 43 (7 2024). ISSN: 10970258. DOI: 10.1002/sim.10015.
3. Hauser*, P., Tan, X., Chen, F., and Ibrahim, J. G. Bayesian generalized linear low rank regression models for the detection of vaccine-adverse event associations. In: *Statistics in Medicine* (2023).
4. Jia, B., Zeng, D., Liao, J. J., Liu, G. F., **Tan, X.**, Diao, G., and Ibrahim, J. G. Mixture survival trees for cancer risk classification. In: *Lifetime Data Analysis* 28.3 (2022), pp. 356–379.
5. Jia, B., Zeng, D., Liao, J. J., Liu, G. F., **Tan, X.**, Diao, G., and Ibrahim, J. G. Inferring latent heterogeneity using many feature variables supervised by survival outcome. In: *Statistics in Medicine* 40 (2021), pp. 3181–3195. ISSN: 10970258. DOI: 10.1002/sim.8972.

6. Sun, Y., Zhang, X., **Tan, X.**, and Tu, D. Estimation of the binomial probabilities in a two-stage phase II clinical trial with two co-primary endpoints. In: *Contemporary Clinical Trials* 105 (2021). ISSN: 15592030. DOI: 10.1016/j.cct.2021.106390.
7. **Tan, X.**, Chen, B. E., Sun, J., Patel, T., and Ibrahim, J. G. A hierarchical testing approach for detecting safety signals in clinical trials. In: *Statistics in Medicine* 39 (2020), pp. 11541–11557. ISSN: 10970258. DOI: 10.1002/sim.8495.
8. Diao, G., Liu, G. F., Zeng, D., Wang, W., **Tan, X.**, Heyse, J. F., and Ibrahim, J. G. Efficient methods for signal detection from correlated adverse events in clinical trials. In: *Biometrics* 75 (2019), pp. 1000–1008. ISSN: 15410420. DOI: 10.1111/biom.13031.
9. **Tan, X.**, Liu, G. F., Zeng, D., Wang, W., Diao, G., Heyse, J. F., and Ibrahim, J. G. Controlling false discovery proportion in identification of drug-related adverse events from multiple system organ classes. In: *Statistics in Medicine* 38 (2019), pp. 4378–4389. ISSN: 10970258. DOI: 10.1002/sim.8304.
10. Xu, J., **Tan, X.**, and Zhang, R. A penalized maximum likelihood approach for estimating mixture of regression models. In: *SCIENTIA SINICA Mathematica* 49 (2019), pp. 1159–1182. DOI: 10.1360/SCM-2018-0132.
11. Chen, J., Li, S., and **Tan, X.** Consistency of the penalized MLE for two-parameter gamma mixture models. In: *Science China Mathematics* 59 (2016), pp. 2301–2318.
12. Bray, B. C., Lanza, S. T., and **Tan, X.** Eliminating Bias in Classify-Analyze Approaches for Latent Class Analysis. In: *Structural Equation Modeling* 22 (2015), pp. 1–11. ISSN: 15328007. DOI: 10.1080/10705511.2014.935265.
13. Dziak, J. J., Li, R., **Tan, X.**, Shiffman, S., and Shiyko, M. P. Modeling intensive longitudinal data with mixtures of nonparametric trajectories and time-varying effects. In: *Psychological Methods* 20 (2015), pp. 444–469. ISSN: 1082989X. DOI: 10.1037/met0000048.
14. Yi, G. Y., **Tan, X.**, and Li, R. Variable selection and inference procedures for marginal analysis of longitudinal data with missing observations and covariate measurement error. In: *Canadian Journal of Statistics* 43 (2015), pp. 498–518. ISSN: 1708945X. DOI: 10.1002/cjs.11268.
15. Dziak, J. J., Lanza, S. T., and **Tan, X.** Effect Size, Statistical Power, and Sample Size Requirements for the Bootstrap Likelihood Ratio Test in Latent Class Analysis. In: *Structural Equation Modeling* 21 (2014), pp. 534–552. ISSN: 15328007. DOI: 10.1080/10705511.2014.919819.
16. Lanza, S. T., **Tan, X.**, and Bray, B. C. Latent Class Analysis With Distal Outcomes: A Flexible Model-Based Approach. In: *Structural Equation Modeling* 20 (2013), pp. 1–26. ISSN: 10705511. DOI: 10.1080/10705511.2013.742377.
17. Su, X., Fan, J., Levine, R. A., **Tan, X.**, and Tripathi, A. Multiple-inflation poisson model with L1 regularization. In: *Statistica Sinica* 23 (2013), pp. 1071–1090. ISSN: 10170405. DOI: 10.5705/ss.2012.187.
18. Buu, A., Li, R., **Tan, X.**, and Zucker, R. A. Statistical models for longitudinal zero-inflated count data with applications to the substance abuse field. In: *Statistics in Medicine* 31 (2012), pp. 4074–4086. ISSN: 02776715. DOI: 10.1002/sim.5510.
19. **Tan, X.**, Shiyko, M. P., Li, R., Li, Y., and Dierker, L. A time-varying effect model for intensive longitudinal data. In: *Psychological Methods* 17 (2012), pp. 61–77. ISSN: 1082989X. DOI: 10.1037/a0025814.
20. Buu, A., Johnson, N. J., Li, R., and **Tan, X.** New variable selection methods for zero-inflated count data with applications to the substance abuse field. In: *Statistics in medicine* 30.18 (2011), pp. 2326–2340.
21. **Tan, X.**, Takahara, G., and Tu, D. Optimal Two-Stage Design for the Phase II Cancer Clinical Trials With Responses and Early Progression as Co-primary Endpoints. In: *Statistics in Biopharmaceutical Research* 2 (2010), pp. 767–776. ISSN: 1946-6315. DOI: 10.1198/sbr.2009.08079.
22. Xu, J., **Tan, X.**, and Zhang, R. A note on Phillips (1991): "A constrained maximum likelihood approach to estimating switching regressions". In: *Journal of Econometrics* 154 (2010), pp. 35–41. ISSN: 03044076. DOI: 10.1016/j.jeconom.2009.06.007.

23. Zhu, L., **Tan, X.**, and Tu, D. Testing the homogeneity of two survival functions against a mixture alternative based on censored data. In: *Communications in Statistics: Simulation and Computation* 39 (2010), pp. 1–5. ISSN: 03610918. DOI: 10.1080/03610911003637414.
24. Chen, J. and **Tan, X.** Inference for multivariate normal mixtures. In: *Journal of Multivariate Analysis* 100 (2009), pp. 667–678. ISSN: 0047259X. DOI: 10.1016/j.jmva.2008.12.005.
25. Cheng, M. Y., Qiu, P., **Tan, X.**, and Tu, D. Confidence intervals for the first crossing point of two hazard functions. In: *Lifetime Data Analysis* 15 (2009), pp. 441–454. ISSN: 13807870. DOI: 10.1007/s10985-009-9132-6.
26. Chen, J., **Tan, X.**, and Zhang, R. Inference for normal mixtures in mean and variance. In: *Statistica Sinica* 18 (2008), pp. 443–465. ISSN: 10170405.
27. Chen, J., Li, P., and **Tan, X.** Inference for Von Mises Mixture in Mean Direction and Concentration Parameters. In: *Journal of Systems Science and Mathematical Sciences* 27 (2007), pp. 59–67.
28. **Tan, X.** and Zhang, R. Generalized likelihood-ratio test of the number of components in finite mixture models (chen 1994, lemma 1): Correction. In: *Canadian Journal of Statistics* 32 (2004), pp. 469–469. ISSN: 03195724. DOI: 10.2307/3316028.

Collaborative

1. Hall, J. T., Moon, A. M., Young, M., **Tan, X.**, Darawsheh, R., Danquah, F., Tepper, J. E., and Yanagihara, T. K. Biochemical Safety of SBRT to Multiple Intrahepatic Lesions for Hepatocellular Carcinoma. In: *Journal of Hepatocellular Carcinoma* 11 (2024). ISSN: 22535969. DOI: 10.2147/JHC.S447025.
2. Zhao, A. Y., DeSousa, N. E., Henriksen, H. C., May, A. M., **Tan, X.**, and Lawrence, D. S. An Assessment of Laboratory Safety Training in Undergraduate Education. In: *Journal of Chemical Education* 101 (4 2024). ISSN: 19381328. DOI: 10.1021/acs.jchemed.3c01299.
3. Chen, J., Zhang, X., **Tan, X.**, and Liu, P. Somatic gain-of-function mutations in BUD13 promote oncogenesis by disrupting Fbw7 function. In: *Journal of Experimental Medicine* 220 (10 2023). ISSN: 15409538. DOI: 10.1084/jem.20222056.
4. Dittus, C., Weinstock, M., Barnes, J. A., Sandoval-Sus, J., Grover, N. S., Beaven, A., **Tan, X.**, El-Jawahri, A., Sarosiek, S. R., and Sloan, J. M. Final Results of a Multicenter Pilot Study Evaluating Brentuximab Vedotin with Cyclophosphamide, Doxorubicin, Etoposide, and Prednisone (BV-CHEP) for the Treatment of Aggressive Adult T-Cell Leukemia/Lymphoma. In: *Blood* 142 (Supplement 1 2023). ISSN: 0006-4971. DOI: 10.1182/blood-2023-173822.
5. Hall, J., Lui, K., **Tan, X.**, Shumway, J., Collichio, F., Moschos, S., Sengupta, S., Chaudhary, R., Quinsey, C., Jaikumar, S., Forbes, J., Andaluz, N., Zuccarello, M., Struve, T., Vatner, R., Pater, L., Breneman, J., Weiner, A., Wang, K., and Shen, C. Factors associated with radiation necrosis and intracranial control in patients treated with immune checkpoint inhibitors and stereotactic radiotherapy. In: *Radiotherapy and Oncology* 189 (2023). ISSN: 18790887. DOI: 10.1016/j.radonc.2023.109920.
6. Hammers, J., Lindsay, D., Narayanasamy, G., Sud, S., **Tan, X.**, Dooley, J., Marks, L. B., Chen, R. C., Das, S. K., and Mavroidis, P. Evaluation of the clinical impact of the differences between planned and delivered dose in prostate cancer radiotherapy based on CT-on-rails IGRT and patient-reported outcome scores. In: *Journal of Applied Clinical Medical Physics* 24 (1 2023). ISSN: 15269914. DOI: 10.1002/acm2.13780.
7. Milojevich, H. M., Stickel, D., Swingler, M. M., Zhang, X., Terrell, J., Sheridan, M. A., and **Tan, X.** Building an ecological momentary assessment smartphone app for 4- to 10-year-old children: A pilot study. In: *PLoS ONE* 18 (8 August 2023). ISSN: 19326203. DOI: 10.1371/journal.pone.0290148.
8. O’Leary, M. C., Reuland, D. S., Correa, S. Y., Moore, A. A., Malo, T. L., **Tan, X.**, Rohweder, C. L., Wheeler, S. B., and Brenner, A. T. Uptake of colorectal cancer screening after mailed fecal immunochemical test (FIT) outreach in a newly eligible 45–49-year-old community health center population. In: *Cancer Causes and Control* 34 (2023). ISSN: 15737225. DOI: 10.1007/s10552-023-01717-8.

9. Rickard, B. P., **Tan, X.**, Fenton, S. E., and Rizvi, I. Photodynamic Priming Overcomes Per- and Polyfluoroalkyl Substance (PFAS)-Induced Platinum Resistance in Ovarian Cancer†. In: *Photochemistry and Photobiology* 99 (2 2023). ISSN: 17511097. DOI: 10.1111/php.13728.
10. Shen, C., Abdou, Y., Chen, L., **Tan, X.**, Gupta, G., Lynce, F., Lobbous, M., Stringer-Reasor, E., and Anders, C. TIPS-21 PHASE I/II STUDY OF STEREOTACTIC RADIOSURGERY WITH CONCURRENT OLAPARIB FOLLOWED BY ADJUVANT DURVALUMAB AND PHYSICIAN'S CHOICE SYSTEMIC THERAPY IN SUBJECTS WITH BREAST CANCER BRAIN METASTASES (SOLARA). In: *Neuro-Oncology Advances* 5 (Supplement₃ 2023). DOI: 10.1093/noajnl/vdad070.151.
11. Song, L., Guan, T., Guo, P., **Tan, X.**, Bryant, A. L., Wood, W. A., Sung, A. D., Kent, E. E., and Keyserling, T. C. Health behaviors, obesity, and marital status among cancer survivors: a MEPS study. In: *Journal of Cancer Survivorship* 17 (2 2023). ISSN: 19322267. DOI: 10.1007/s11764-022-01269-x.
12. Sud, S., Cochrane, C., Nakagawa, J., **Tan, X.**, Gadre, S., Xu, V., Roberts, O., King, T., Siripurapu, V., Rahangdale, L., and Weiner, A. A. Trial in progress: Application of plasma circulating HPV DNA testing to management of cervical intraepithelial neoplasia (1249). In: *Gynecologic Oncology* 176 (2023). ISSN: 00908258. DOI: 10.1016/j.ygyno.2023.06.158.
13. Wood, W. A., Bailey, C., Castrogivanni, B., Mehedint, D., Bryant, A. L., Lavin, K., **Tan, X.**, Richardson, J., Qian, Y., Tan, K. R., et al. Piloting HealthScore: Feasibility and acceptability of a clinically integrated health coaching program for people living with cancer. In: *Cancer Medicine* (2023).
14. Xu, S., **Tan, X.**, Ma, C., McElyea, R. S., Shieh, K., Stover, A. M., Smith, A., Stitzenberg, K., Basch, E., and Song, L. An eHealth symptom and complication management program for cancer patients with newly created ostomies and their caregivers (Alliance): a pilot feasibility randomized trial. In: *BMC Cancer* 23 (1 2023). ISSN: 14712407. DOI: 10.1186/s12885-023-10919-x.
15. Zhao, A. Y., Collins, J., Floyd, J. B., **Tan, X.**, and Lawrence, D. S. A Virtual Reality Assessment of Teamwork in Laboratory Safety. In: *Journal of Chemical Education* 100 (6 2023). ISSN: 19381328. DOI: 10.1021/acs.jchemed.3c00191.
16. Zhu, Z., Zhou, X., Du, H., Cloer, E. W., Zhang, J., Mei, L., Wang, Y., **Tan, X.**, Hepperla, A. J., Simon, J. M., Cook, J. G., Major, M. B., Dotti, G., and Liu, P. STING Suppresses Mitochondrial VDAC2 to Govern RCC Growth Independent of Innate Immunity. In: *Advanced Science* 10 (3 2023). ISSN: 21983844. DOI: 10.1002/advs.202203718.
17. Bennett, A. V., **Tan, X.**, Foster, M. C., Richardson, D. R., Bryant, A. L., Wood, W. A., Yocum, A. O., Mims, A. S., Borate, U., and Burd, A. Is Disease Response a Patient-Centered Clinical Trial Endpoint in Acute Myeloid Leukemia: Differences in Symptom Burden and Physical Function By Response Status in the Beat-AML Master Trial. In: *Blood* 140. Supplement 1 (2022), pp. 3367–3368.
18. Chen, L.-L., Morcelle, C., Cheng, Z.-L., Chen, X., Xu, Y., Gao, Y., Song, J., Li, Z., Smith, M. D., Shi, M., Zhu, Y., Zhou, N., Cheng, M., He Chenxi Liu, K.-Y., Lu, G., Zhang, L., Zhang, C., Zhang, J., Sun, Y., Qi, T., Lyu, Y., Ren, Z.-Z., **Tan, X.**, Yin, J., Lan, f., Liu, Y., Yang, H., Qian, M., Duan Caiwen Chang, X., Zhou, Y., Shen, L., Baldwin, A. S., Guan, K.-L., Xiong, Y., and Ye, D. Itaconate inhibits TET DNA dioxygenases to dampen inflammatory responses. In: *Nature cell biology* 24.3 (2022), pp. 353–363.
19. Dittus, C., Grover, N., Sethi, T., Cohen, J. B., Voloschin, A., Rabadey, J., **Tan, X.**, Beaven, A., and Park, S. I. A multicenter, real-world analysis of primary central nervous system lymphoma in those with and without human immunodeficiency virus. In: *EJHaem* 3.3 (2022), pp. 734–738.
20. Dittus, C., Strowd III, R. E., Hoye, K., **Tan, X.**, Miller, J., Bello, C., Khandani, A., and Beaven, A. W. A Pilot Study Evaluating Acalabrutinib for the Treatment of Relapsed/Refractory Primary and Secondary Central Nervous System Lymphomas. In: *Blood* 140. Supplement 1 (2022), pp. 6616–6617.
21. Fried, D. V., Zhu, T., Das, S. K., Shen, C., Marks, L. B., **Tan, X.**, and Chera, B. S. Prospective assessment of sparing the parotid ducts via MRI sialography for reducing patient reported xerostomia. In: *Radiotherapy and Oncology* 172 (2022), pp. 42–49.

22. Gentile, G. M., Gamarra, J. R., Engels, N. M., Blue, R. E., Hoerr, I., Wiedner, H. J., Hinkle, E. R., Cote, J. L., Leverence, E., Mills, C. A., Herring, L. E., **Tan, X.**, and Giudice, J. The synaptosome-associated protein 23 (SNAP23) is necessary for proper myogenesis. In: *The FASEB Journal* 36.8 (2022), e22441.
23. Hammers, J., Lindsay, D., Narayanasamy, G., Sud, S., **Tan, X.**, Dooley, J., Marks, L. B., Chen, R. C., Das, S. K., and Mavroidis, P. Evaluation of the clinical impact of the differences between planned and delivered dose in prostate cancer radiotherapy based on CT-on-rails IGRT and patient-reported outcome scores. In: *Journal of Applied Clinical Medical Physics* (2022), e13780.
24. Hammers, J., Pirozzi, S., Narayanasamy, G., Lindsay, D., Kaidar-Person, O., **Tan, X.**, Chen, R. C., Das, S. K., and Mavroidis, P. Evaluation of the Dose Delivery Consistency and Its Dependence on Imaging Modality and Deformable Image Registration Algorithm in Prostate Cancer Patients. In: *Journal of Medical and Biological Engineering* 42 (2022), pp. 1–13. ISSN: 21994757. DOI: 10.1007/s40846-021-00673-5.
25. Li, S., Mirlekar, B., Johnson, B. M., Brickey, W. J., Wrobel, J. A., Yang, N., Song, D., Entwistle, S., **Tan, X.**, Deng, M., Cui, Y., Wei, L., Vincent, B. G., Gale, M. J., Pylayeva-Gupta, Y., and Ting, J. P.-Y. STING-induced regulatory B cells compromise NK function in cancer immunity. In: *Nature* 610.7931 (2022), pp. 373–380.
26. Liu, W., Sun, Q., Huang, L., Bhattacharya, A., Wang, G. W., **Tan, X.**, Kuban, K. C., Joseph, R. M., O’Shea, T. M., Fry, R. C., Li, Y., and Santos, H. P. Innovative computational approaches shed light on genetic mechanisms underlying cognitive impairment among children born extremely preterm. In: *Journal of Neurodevelopmental Disorders* 14 (2022), pp. 1–14. ISSN: 18661955. DOI: 10.1186/s11689-022-09429-x.
27. Munoz, R., Ewy, J., O’Donnell, J., Zhang, X., **Tan, X.**, and Bae-Jump, V. Evaluation of racial disparities in time to presentation, diagnosis, and gynecologic oncology referral in women with serous endometrial cancer (431). In: *Gynecologic Oncology* 166 (2022), S217.
28. Richardson, D. R., Parish, P. C., **Tan, X.**, Fabricio, J., Andreini, C. L., Hicks, C. H., Jensen, B. C., Muluneh, B., and Zeidner, J. F. Association of QTc Formula With the Clinical Management of Patients With Cancer. In: *JAMA oncology* 8.11 (2022), pp. 1616–1623.
29. Rickard, B. P., **Tan, X.**, Fenton, S. E., and Rizvi, I. Photodynamic Priming Overcomes Per- and Polyfluoroalkyl Substance (PFAS)-Induced Platinum Resistance in Ovarian Cancer. In: *Photochemistry and Photobiology* (2022). DOI: 10.1111/php.13728.
30. Rickard, B. P., **Tan, X.**, Fenton, S. E., and Rizvi, I. Select Per- and Polyfluoroalkyl Substances (PFAS) Induce Resistance to Carboplatin in Ovarian Cancer Cell Lines. In: *International Journal of Molecular Sciences* 23.9 (2022), p. 5176.
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95. Cohen, S. L., Rosen, A. I., **Tan, X.**, and Kingdom, F. A. Improvement of the visual field index in clinical glaucoma care. In: *Canadian Journal of Ophthalmology* 51 (2016), pp. 445–451. ISSN: 17153360. DOI: 10.1016/j.cjco.2016.10.001.

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101. Mack, J. P., **Tan, X.**, Vinh, D. C., and Popradi, G. Risk Factors for Progression of CMV Viremia to CMV Disease after Allogeneic Hematopoietic Stem Cell Transplantation. In: *Biology of Blood and Marrow Transplantation* 21 (2015), S296–S297. ISSN: 10838791. DOI: 10.1016/j.bbmt.2014.11.470.
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106. Alayed, N., Alghanaim, N., **Tan, X.**, and Tulandi, T. *Preemptive use of gabapentin in abdominal hysterectomy: A systematic review and meta-analysis*. 2014. DOI: 10.1097/OGX.0000000000000095.
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111. Valentino, S. W., Moore, J. E., Cleveland, M. J., Greenberg, M. T., and **Tan, X.** Profiles of Financial Stress Over Time Using Subgroup Analysis. In: *Journal of Family and Economic Issues* 35 (2014), pp. 51–64. ISSN: 10580476. DOI: 10.1007/s10834-012-9345-9.
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117. **Tan, X.**, Dierker, L., Rose, J., and Li, R. How spacing of data collection may impact estimates of substance use trajectories. In: *Substance Use and Misuse* 46 (2011), pp. 758–768. ISSN: 10826084. DOI: 10.3109/10826084.2010.537731.
118. Dierker, L., Rose, J., **Tan, X.**, and Li, R. Uncovering multiple pathways to substance use: A comparison of methods for identifying population subgroups. In: *Journal of Primary Prevention* 31 (2010), pp. 333–348. ISSN: 0278095X. DOI: 10.1007/s10935-010-0224-6.

PUBLICATIONS (IN PROCEEDINGS, BOOK CHAPTER)

1. Luo, Y., **Tan, X.**, and Tu, D. Assessing Similarity of Two Survival Functions Based on Censored Data and the Trimmed Mallows Distance. In: *Theoretical Advances and Applications in Operations Research-Modeling Non-normal Phenomena*. Ed. by K. Tan and J. Gani. Fukuoka, Japan: Kyushu University Press, 2011, pp. 33–46. ISBN: 4798500569.
2. **Tan, X.**, Chen, J., and Zhang, R. Consistency of the Constrained Maximum Likelihood Estimator in Finite Normal Mixture Models. In: *Section on Statistical Education*. 2007 Proceedings of the American Statistical Association (Salt Lake City, Utah, July 26–Aug. 2, 2007). Alexandria, VA: American Statistical Association, 2007, pp. 2113–2119.

PUBLICATIONS (SUBMITTED, methods papers only)

1. Quinter*, A., Tan, X., Zeng, D., and Ibrahim, J. Joint Sparse Factor Regression Models for Analyzing High-Dimensional Data. (under review, about 20 pages).
2. **Tan, X.**, Sun, J., Zhang, X., Milojevich, H., Swingler, M., Sheridan, M., and Terrell, J. Intelligent Ecological Momentary Assessment: A Proof of Concept. (under review, about 16 pages).
3. **Tan, X.**, Wang, W., Zeng, D., Liu, G., Diao, G., and Ibrahim, J. Detecting Safety Signals from the VAERS Data with Complex and High Dimensional Covariates. (under review, about 14 pages).

Note: * indicates students.

INVITED TALKS

1. "Ecological Momentary Assessment (EMA) – Data Collection Method", Integrating AI with the DoD, Scott AFB, St. Louis, Mo, 10/13/2022.
2. "Statistical Methods for Analyzing Safety Data in Clinical Trials", the Methodology Center at the Pennsylvania State University, 11/16/2017.
3. "Variable selection for marginal analysis of longitudinal data with missing observations", University of California at Riverside, 04/18/2016.
4. "Two-Stage Design for Phase II Cancer Clinical Trials with Responses and Early Progression as Co-primary End-points", Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, February, 2015.

CONTRIBUTED PRESENTATIONS

1. "Statistical Consideration in Intelligent Ecological Momentary Assessment", Advances in Interdisciplinary Statistics and Combinatorics (AISC) 2021, Virtual, 10/9/2021.
2. "Detecting Safety Signals in Randomized Clinical Trials" (poster), 5th Duke Annual Statistics Symposium (DISS), Duke University, 2017.
3. "FDR Control for Multiple Correlated Tests and its Application to Safety Data Analysis" (poster), 5th Duke Annual Statistics Symposium (DISS), Duke University, 2017.
4. "A Review of Mixture Varying Coefficient Models for Longitudinal Data", The Ninth ICOSA International Conference, Hong kong, 2013.
5. "Mixture of Generalized Varying Effect Models", Joint Statistical Meeting, Miami Beach, Florida, 2011.
6. "Latent Class Analysis with a Distal Outcome: Traditional and New Approaches", Society for Prevention Research (SPR), Washington D.C., 2011.
7. "Joint Modeling of HIV Disease Course and Survival: Effects of Alcohol, Tobacco, and Drug Use", Society for Prevention Research (SPR), Washington D.C., 2011.
8. "Inference for Multivariate Normal Mixtures and Its Applications", Joint Statistical Meeting, Washington D.C., 2009.
9. "Two-Stage Design for Phase II Cancer Clinical Trials with Responses and Early Progression as Co-primary End-points", SSC/SFDS 2008, Ottawa, ON. 2008.

TEACHING

1. Instructor

- BIOS 668 Design of Public Health Studies
Department of Biostatistics, University of North Carolina at Chapel Hill
Spring 2017, 2018, 2019, 2020, 2021, 2023
- Linear Regression Models (undergraduate in statistics)
Department of Statistics, Nankai University, Tianjin, China
Spring 2003, 2004, 2005, 2006

- Design and Analysis of Experiments (graduate in statistics)
Department of Statistics, Nankai University, Tianjin, China
Fall 2003, 2004, 2005
- Calculus (for undergraduate students not in mathematics major)
Department of Statistics, Nankai University, Tianjin, China
Spring 2004, 2005, 2006
Fall 2004, 2005

SHORT COURSE WORKSHOP

1. "Modeling Strategies for Analyzing Complex Patient-Reported Outcomes-Virtual", ISPOR 2022, 05/24-25/2022, (Role: co-instructor).
2. "Modeling Strategies for Analyzing Complex Longitudinal Data." International Conference on Health Policy Statistics (ICHPS), Phoenix, AZ, 01/09/2023, (Role: co-instructor).
3. "Modeling Strategies for Analyzing Complex Longitudinal Data", American Statistical Association Conference on Statistical Practice (CSP 2023), San Francisco, CA, 02/04/2023, (Role: co-instructor).

SOFTWARE

1. Li, R. and **Tan, X.** (2011). TVEM (time-varying effect model) SAS macro user's guide (Version 1.2.0). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
2. **Tan, X.**, Lanza, S. T., and Wagner, A. T. (2011). LCA distal SAS macro user's guide (Version 1.1.0). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>

GRADUATE COMMITTEE ACTIVITY

1. PhD Committee, Chair or Co-Chair

- Department of Biostatistics, University of North Carolina at Chapel Hill
Di Hu 2022-Present
Role: Chair
- Department of Biostatistics, University of North Carolina at Chapel Hill
Ann Marie Kathryn Weideman 2023-Present
Role: Co-Chair (with Kevin Anstrom, to be settled soon)
- Department of Biostatistics, University of North Carolina at Chapel Hill
Paloma Hauser 2020-Present
Role: Co-Chair (with Joseph Ibrahim, Fang Chen)
- Department of Biostatistics, University of North Carolina at Chapel Hill
Alexander Quinter 2021-Present
Role: Co-Chair (with Joseph Ibrahim)
- Department of Biostatistics, University of North Carolina at Chapel Hill
Weideman, Ann Marie Kathryn 2023-2024
Role: Co-Chair (with Kevin Anstrom)
- Department of Biostatistics, University of North Carolina at Chapel Hill
Ann Marie Kathryn Weideman 2023-2024
Role: Co-Chair (with Kevin Joseph Anstrom)

- Department of Biostatistics, University of North Carolina at Chapel Hill
Jonathan H Zhang 2024-presnet
Role: Co-Chair (with Jianwen Cai)

2. PhD/DrPh Committee, Member

- Department of Biostatistics, University of North Carolina at Chapel Hill
Mochuan Liu 2023
Beilin Jia 2022
Jitong Lou 2021
Xiaoqiang Xue 2018
- Department of Epidemiology, University of North Carolina at Chapel Hill
Yumeng Ren 2022
Marc Aaron Emerson 2020
- Department of Health Policy and Management, University of North Carolina at Chapel Hill
Carmen Cuthbertson 2019
Theresa M. Coles 2017
Laura C. Pinheir 2017
- Department of Biomedical Engineering, University of North Carolina at Chapel Hill
Jacob Elliot Hammers 2020

3. Master, Thesis Advisor

- Department of Biostatistics, University of North Carolina at Chapel Hill
Coco Chang 2022
Qianhui Yang 2021
Michelle Gao 2021
Yueting Wang 2020
Peiran Guo 2019
Brandon Gerringier 2019
Xiaoyang Chen 2018
Kyle Mann 2017

4. Master, Academic Advisor

- Department of Biostatistics, University of North Carolina at Chapel Hill
Scott Ye on-going
Shiyi Yang on-going
Qianhui Yang 2021
Qianya Xu, 2021
Ziqi Ye 2020
Brandon Gerringier 2019
Euphy Wu 2019
Xiaoyang Chen 2018

5. BSPH Committee, Honor Thesis Chair

- Department of Biostatistics, University of North Carolina at Chapel Hill
Ivonne Zhou 2024
Keyi Xue 2023
Mincen Liu 2022
Coco Chang 2021
Ishani Kapoor 2020

STUDENTS/EMPLOYEE SUPERVISED IN COLLABORATIONS

1. Statistical Analyst

- Department of Biostatistics, University of North Carolina at Chapel Hill
Xinyi Zhang 2019-2021
- Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill
Xinyi Zhang 2021-2022
- School of Nursing, University of North Carolina at Chapel Hill
Peiran Guo 2019-2022

2. Graduate Research Assistant

- Department of Biostatistics, University of North Carolina at Chapel Hill
Peiran Guo 2018-2019
Jenny Yang 2016

UNDERGRADUATE STUDENTS SUPERVISED

- Department of Biostatistics, University of North Carolina at Chapel Hill
Michael Dongyuan Zhang 2019
- Department of Computer Science, University of North Carolina at Chapel Hill
Manuel J. Cabrejos Torres 2019

DEPARTMENTAL SERVICE

- Graduate Admission Committee, Department of Biostatistics, University of North Carolina at Chapel Hill 2023
- present
- Biostatistics Seminar Committee, Department of Biostatistics, University of North Carolina at Chapel Hill 2024
- present
- Biostatistics Seminar Committee (Co-Chair), Department of Biostatistics, University of North Carolina at Chapel Hill 2019 - 2023
- Radiology Oncology Research Advisory Committee (Member), Department of Radiation Oncology, School of Medicine, University of North Carolina at Chapel Hill 2022 - present
- Faculty (Research Track) Genomics and Cancer Search Committee (Member), Department of Biostatistics and LCCC, University of North Carolina at Chapel Hill 2022-2023
- Events Coordinator Search Committee (Member), Department of Biostatistics, University of North Carolina at Chapel Hill 2022-2023
- Biostatistician Search Committee (Member), Lineberger Compr Cancer Center, University of North Carolina at Chapel Hill 2022
- Biostatistician Search Committee (Member), Lineberger Compr Cancer Center, University of North Carolina at Chapel Hill 2020
- Biostatistician Search Committee (Member), C4F Project, School of Nursing, University of North Carolina at Chapel Hill 2020

- Biostatistician Search Committee (Member), C4F Project, School of Nursing, University of North Carolina at Chapel Hill 2019
- Web and Communication Committee (Member, Department of Biostatistics, University of North Carolina at Chapel Hill 2015 – 2019

PROFESSIONAL SERVICE

- Guest Editor (Statistics) Special Issue "New Developments in Statistical Design and Analysis of Clinical Trials" for *Mathematics*. <https://www.mdpi.com/si/mathematics/96487EQF3Y>
- Referee service (Statistics): *Annals of Applied Statistics*, *Journal of American Statistics Association (JASA)*, *Biometrics*, *Statistica Sinica*, *Journal of Multivariate Analysis*, *Test*, *Journal of Statistical Planning and Inference*, *Statistics in Medicine*, *Computational Statistics and Data Analysis*, *Pharmaceutical Statistics*, *Journal of Probability and Statistics*, *Statistical Papers*, *Communications in Statistics - Theory and Methods*, *Communications in Statistics - Simulation and Computation*, *Journal of Biopharmaceutical Statistics*, *Statistics in Biosciences*
- Referee service (non-Statistics): *Psychological Methods*, *Addictive Behaviors*, *Clinical Trials: Journal of the Society for Clinical Trials*, *JAMA Oncology*, *American Journal of Public Health*, *BMC Medical Research Methodology*, *Frontiers in Oncology*, *Social Science and Medicine*, *Social Science Research*