

CURRICULUM VITAE

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EDUCATION

- 2008 Ph.D. Biostatistics, University of South Carolina, Columbia, SC, USA
- 2004 M.S. Mathematics, University of North Carolina at Wilmington, Wilmington, NC, USA
- 1998 B.S. Bioengineering National Huaqiao University, Fujian, China

ACADEMIC APPOINTMENT

- 2020 – Research Associate Professor, Department of Biostatistics, Rollins School of Public Health, Emory University, Atlanta, GA
- 2010 –2020 Research Assistant Professor, Department of Biostatistics, Rollins School of Public Health, Emory University, Atlanta, GA
- 2008 –2010 Post-Doctoral Trainee, Division of Biostatistics and Epidemiology, Medical University of South Carolina, Charleston, SC
- 2006 –2008 Research Assistant, Department of Family and Preventive Medicine, School of Medicine, University of South Carolina, Columbia, SC
- 2004 –2006 Research Assistant, Department of Epidemiology and Biostatistics, University of South Carolina, Columbia, SC
- 2002 – 2004 Teaching Assistant, Department of Mathematics, University of North Carolina at Wilmington, Wilmington, NC

RESEARCH INTEREST

- Cancer comparative effectiveness research by utilization of publicly available observational database
- Causal inference by generalized propensity score approaches.
- Dynamic and early prognostic biomarkers development and validation.
- Risk classification or optimal treatment regimes.
- Application areas: cancer, radiation oncology, surgical oncology, immunotherapy therapy, dermatology.

LEADERSHIP EXPERIENCE

- Director of the Biostatistics and Bioinformatics Core in Emory Lung P01 (2022-2026)
- Senior faculty in Biostatistics Shared Resource at Winship Cancer Institute take the leading effort in system optimization with streamlined workflow and enhanced communication and collaborations with other shared resources (e.g., centralized documentation system, clinical trial data processing workflow, NCDB research workflow, staff/RA mentorship/training, SAS macros development/updates). (2020 -)

OTHER TRAINING

- 2020-2021 Team Science Workshops - Georgia Clinical & Translational Science Alliance
- 2021 – Foundations of Everyday Leadership – Online course by University of Illinois at Urbana-Champaign

HONORS/AWARD

- 2013 American Statistical Association Travel Grant award for attending the 59th ISI conference.
- 2019 RSPH Supervisor Award
- 2019 Biostatistics Faculty Mentor Award

PROFESSIONAL ACTIVITIES

Extramural

- 2010- External Reviewer for journals - Statistics in Medicine; International Journal of Biostatistics; Spatial and Spatial-temporal Epidemiology; Cancer; BMC Medical Research Methodology; BMC Health Services Research; IEEE Journal of Biomedical and Health Informatics; Cancer Investigation; *Nature Cancer*; Frontier in Public Health; Nature Cancer;
- 2019 Reviewer for the DoD, CDMRP Prostate Cancer Research Program (PCRP).
- 2020 Reviewer for the DoD, CDMRP Prostate Cancer Research Program (PCRP).
- 2021 Reviewer for the DoD, CDMRP Prostate Cancer Research Program (PCRP).
- 2022 Referee to the Medical Research Council's Clinical Academic Research Partnerships Panel in UK Research and Innovation (UKRI)
- 2022 Statistical Reviewer for the Cancer Biotherapeutics Development (CBD) SBIR/STTR at NIH
- 2023 Statistical Reviewer for the Cancer Biotherapeutics Development (CBD) SBIR/STTR at NIH
- 2023 Statistical Reviewer for the Exploratory Clinical Trials of Mind and Body Interventions (MB) at NIH

Intramural

- 2011- Independent Biostatistics Reviewer for Clinical Trail Review Committee board at Winship Cancer Institute, Emory University (reviewed over **600** research protocols as of Feb 2023)
- 2013 Independent Reviewer for University Research Committee at Emory (responsible for awarding small, short-term research grants available to regular, full-time faculty of Emory University through a competitive selection process.)
- 2014 Independent Reviewer for University Research Committee at Emory.

BIBLIOGRAPHY (<https://www.ncbi.nlm.nih.gov/myncbi/yuan.liu.22/bibliography/public/>)

*: denotes students advised/mentored

◉: denotes contributed as the lead biostatistician (role: study design, data analysis, writing the manuscript, and addressing journal review)

⊙: denotes contributed as the senior biostatistician (role: same role as in lead biostatistician except data analysis was done by staff or student under my close guidance).

➤ Book Chapters

1. Harvey, R. D., Liu, Y., Owonikoko, T. K., & Ramalingam, S. S. (2023) Biomarker Based Clinical Trial Design in the Era of Genomic Medicine. In *Holland-Frei Cancer Medicine* (pp. 1-7). <https://doi.org/10.1002/9781119000822.hfcm021.pub2>

➤ Statistical Methodology: Peer-reviewed

1. Lawson, A. B., Williams, F. L., & Liu, Y. (2007). Some simple tests for spatial effects around putative sources of health risk. *Biom J*, 49(4), 493-504.
2. Ma, B., Lawson, A. B., & Liu, Y. (2007). Evaluation of Bayesian Models for Focused Clustering in Health Data. *Environmetrics*, 18(8), 871-887.
3. Liu, Y., & Bottai, M. (2009). Mixed-effects models for conditional quantiles with longitudinal data. *Int J Biostat*, 5(1), Article 28.

4. **Liu, Y.**, Lawson, A. B., Ma, B., & Bottai, M. (2009). Evaluation of Putative Hazard Tests under Background Risk Heterogeneity. *Environmetrics*, 20(3), 260-274.
 5. **Liu, Y.**, McDermott, S., Lawson, A., & Aelion, C. M. (2010). The relationship between mental retardation and developmental delays in children and the levels of arsenic, mercury and lead in soil samples taken near their mother's residence during pregnancy. *Int J Hyg Environ Health*, 213(2), 116-123.
 6. Tighiouart, M., **Liu, Y.**, & Rogatko, A. (2014). Escalation with overdose control using time to toxicity for cancer phase I clinical trials. *PLoS One*, 9(3), e93070.
 7. **Liu, Y.**, Nickleach, D, Zhang, C., Switchenko, J., Kowalski, J. (2018). Carrying out streamlined routine data analyses with reports for observational studies: introduction to a series of generic SAS® macros. *F1000Res*, 7:1955. DOI: 10.12688/f1000research.16866.1. License: CC BY4.0. PMID: 31231506.
 8. Li, H., **Liu, Y.**, & Luo, Y. (2020). Double Penalized Quantile Regression for the Linear Mixed Effects Model. *Journal of Systems Science and Complexity*, 33(6), 2080-2102. doi:10.1007/s11424-020-9065-4
 9. **Liu, Y.**, Patel, S. A., Jani, A. B., Gillespie, T. W., Patel, P. R., Godette, K. D., . . . McDonald, M. W. (2020). Overall Survival After Treatment of Localized Prostate Cancer With Proton Beam Therapy, External-Beam Photon Therapy, or Brachytherapy. *Clin Genitourin Cancer*. PMID: 32972877.
- **Collaborative Research Based on Large Scale Observational Database: NCDB, SEER, and Others.**
10. Hall, W. A., Colbert, L. E., **Liu, Y.** [☺], Gillespie, T., Lipscomb, J., Hardy, C., . . . Landry, J. C. (2013). The influence of adjuvant radiotherapy dose on overall survival in patients with resected pancreatic adenocarcinoma. *Cancer*, 119(12), 2350-2357. PMID: 23625519
 11. Kooby, D. A., Gillespie, T. W., **Liu, Y.** [☺], Byrd-Sellers, J., Landry, J., Bian, J., & Lipscomb, J. (2013). Impact of adjuvant radiotherapy on survival after pancreatic cancer resection: an appraisal of data from the national cancer data base. *Ann Surg Oncol*, 20(11), 3634-3642. PMID: 23771249
 12. Hall, W. A., Colbert, L. E., Nickleach, D., Switchenko, J., **Liu, Y.** [★], Gillespie, T., . . . Landry, J. C. (2014). The influence of radiation therapy dose escalation on overall survival in unresectable pancreatic adenocarcinoma. *J Gastrointest Oncol*, 5(2), 77-85. PMID: 24772334
 13. Colbert, L. E., Hall, W. A., Nickleach, D., Switchenko, J., Kooby, D. A., **Liu, Y.** [★], . . . Landry, J. C. (2014). Chemoradiation therapy sequencing for resected pancreatic adenocarcinoma in the National Cancer Data Base. *Cancer*, 120(4), 499-506. PMID: 24390739
 14. Mikell, J. L., Gillespie, T. W., Hall, W. A., Nickleach, D. C., **Liu, Y.** [★], Lipscomb, J., . . . Higgins, K. A. (2015). Postoperative radiotherapy is associated with better survival in non-small cell lung cancer with involved N2 lymph nodes: results of an analysis of the National Cancer Data Base. *J Thorac Oncol*, 10(3), 462-471. PMID: 25384064
 15. Khullar, O. V., Gillespie, T., Nickleach, D. C., **Liu, Y.** [★], Higgins, K., Ramalingam, S., . . . Fernandez, F. G. (2015). Socioeconomic risk factors for long-term mortality after pulmonary resection for lung cancer: an analysis of more than 90,000 patients from the National Cancer Data Base. *J Am Coll Surg*, 220(2), 156-168.e154. PMID: 25488349
 16. Nanda, R. H.* [★], **Liu, Y.** [★], Gillespie, T. W., Mikell, J. L., Ramalingam, S. S., Fernandez, F. G., . . . Higgins, K. A. (2015). Stereotactic body radiation therapy versus no treatment for early stage non-small cell lung cancer in medically inoperable elderly patients: A National Cancer Data Base analysis. *Cancer*, 121(23), 4222-4230. PMID: 26348268
 17. Melvan, J. N., Sancheti, M. S., Gillespie, T., Nickleach, D. C., **Liu, Y.** [★], Higgins, K., . . . Fernandez, F. G. (2015). Nonclinical Factors Associated with 30-Day Mortality after Lung Cancer Resection: An Analysis of 215,000 Patients Using the National Cancer Data Base. *J Am Coll Surg*, 221(2), 550-563. PMID: 26206651

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19. Medbery, R. L., Gillespie, T. W., [Liu, Y.](#)[✉], Nickleach, D. C., Lipscomb, J., Sancheti, M. S., . . . Fernandez, F. G. (2016). Nodal Upstaging Is More Common with Thoracotomy than with VATS During Lobectomy for Early-Stage Lung Cancer: An Analysis from the National Cancer Data Base. *J Thorac Oncol*, *11*(2), 222-233. PMID: 26792589
20. Medbery, R. L., Gillespie, T. W., [Liu, Y.](#)[✉], Nickleach, D. C., Lipscomb, J., Sancheti, M. S., . . . Fernandez, F. G. (2016). Socioeconomic Factors Are Associated with Readmission After Lobectomy for Early Stage Lung Cancer. *Ann Thorac Surg*, *102*(5), 1660-1667. PMID: 27476821
21. Jegadeesh, N., [Liu, Y.](#)[✉], Gillespie, T., Fernandez, F., Ramalingam, S., Mikell, J., . . . Higgins, K. A. (2016). Evaluating Intensity-Modulated Radiation Therapy in Locally Advanced Non-Small-Cell Lung Cancer: Results From the National Cancer Data Base. *Clin Lung Cancer*, *17*(5), 398-405. PMID: 26936682
22. Zureikat, A. H., Postlewait, L. M., [Liu, Y.](#)[✉], Gillespie, T. W., Weber, S. M., Abbott, D. E., . . . Kooby, D. A. (2016). A Multi-institutional Comparison of Perioperative Outcomes of Robotic and Open Pancreaticoduodenectomy. *Ann Surg*, *264*(4), 640-649. PMID: 27433907
23. Higgins, K. A., O'Connell, K. *, [Liu, Y.](#)[✉], Gillespie, T. W., McDonald, M. W., Pillai, R. N., . . . Simone II, C. B. (2017). National Cancer Database Analysis of Proton Versus Photon Radiation Therapy in Non-Small Cell Lung Cancer. *Int J Radiat Oncol Biol Phys*, *97*(1), 128-137. PMID: 27979443
24. Jegadeesh, N., [Liu, Y.](#)[✉], Zhang, C., Zhong, J., Cassidy, R. J., Gillespie, T., Kucuk, O., . . . Jani, A. B. (2017). The role of adjuvant radiotherapy in pathologically lymph node-positive prostate cancer. *Cancer*, *123*(3), 512-520. PMID: 27859018
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30. Naik, K. B. *, [Liu, Y.](#)[✉], Goodman, M., Gillespie, T. W., Pickens, A., orce, S. D., . . . Saba, N. F. (2017). Concurrent chemoradiotherapy with or without surgery for patients with resectable esophageal cancer: An analysis of the National Cancer Data Base. *Cancer*, *123*(18), 3476-3485. PMID:28464264
31. Evans, M., [Liu, Y.](#)[✉], Chen, C. *, Steuer, C., Cassidy, R., III, Landry, J., . . . Saba, N. F. (2017). Adenosquamous Carcinoma of the Esophagus: An NCDB-Based Investigation on Comparative Features and Overall Survival in a Rare Tumor. *Oncology*, *93*(5), 336-342. PMID:28848104

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33. Jhaveri, J., **Liu, Y.**[☺], Chowdhary, M., Buchwald, Z. S., Gillespie, T. W., Olson, J. J., . . . Curran, W. J. (2018). Is less more? Comparing chemotherapy alone with chemotherapy and radiation for high-risk grade 2 glioma: An analysis of the National Cancer Data Base. *Cancer*, 124(6), 1169-1178. PMID:29205287
34. Becerra-Culqui, T. A., **Liu, Y.**[☺], Nash, R., Cromwell, L., Flanders, W. D., Getahun, D., . . . Goodman, M. (2018). Mental Health of Transgender and Gender Nonconforming Youth Compared with Their Peers. *Pediatrics*, 141(5). PMID: 29661941
35. Jiang, R., **Liu, Y.**[☆], Ward, K. C., Force, S. D., Pickens, A., Sancheti, M. S., . . . Khullar, O. V. (2018). Excess Cost and Predictive Factors of Esophagectomy Complications in the SEER-Medicare Database. *Ann Thorac Surg*, 106(5), 1484-1491. PMID:2994881
36. Johnson, A. C., Ethun, C. G., **Liu, Y.**[☺], Lopez-Aguilar, A. G., Tran, T. B., Poultides, G., . . . Maithel, S. K. (2018). Studying a Rare Disease Using Multi-Institutional Research Collaborations vs Big Data: Where Lies the Truth? *J Am Coll Surg*, 227(3), 357-366. PMID:29906615
37. Li, S., Wang, J., Zhang, B., **Liu, Y.**, Lu, T., Shi, Y., . . . Dong, L. (2018). Urinary Lead Concentration Is an Independent Predictor of Cancer Mortality in the U.S. General Population. *Front Oncol*, 8, 242. PMID:30013948
38. Ferris, M. J., **Liu, Y.**[☆], Ao, J., * Zhong, J., Abugideiri, M., Gillespie, T. W., . . . Jani, A. B. (2018). The addition of chemotherapy in the definitive management of high risk prostate cancer. *Urol Oncol*, 36(11), 475-487. PMID: 30309766
39. Jhaveri, J., Rayfield, L.* , **Liu, Y.**[☆], Chowdhary, M., Tian, S., Cassidy, R. J., . . . Patel, K. R. (2018). Impact of intensity modulated radiation therapy on survival in anal cancer. *J Gastrointest Oncol*, 9(4), 618-630. PMID:30151258
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41. Jhaveri, J., Cheng, E.* , Tian, S., Buchwald, Z., Chowdhary, M., **Liu, Y.**[☆], . . . Patel, K. R. (2018). Proton vs. Photon Radiation Therapy for Primary Gliomas: An Analysis of the National Cancer Data Base. *Front Oncol*, 8, 440. PMID: 30547008
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43. Gupta, D. R., **Liu, Y.**[☺], Jiang, R., Walid, S., Higgins, K., Landry, J., . . . Saba, N. F. (2019). Racial Disparities, Outcomes, and Surgical Utilization among Hispanics with Esophageal Cancer: A Surveillance, Epidemiology, and End Results Program Database Analysis. *Oncology*, 1-9. PMID: 31108497.
44. Troeschel, A. N.* , **Liu, Y.**[☆], Collin, L. J., Bradshaw, P. T., Ward, K. C., Gogineni, K., & McCullough, L. E. (2019). Race differences in cardiovascular disease and breast cancer mortality among US women diagnosed with invasive breast cancer. *Int J Epidemiol*. doi:10.1093/ije/dyz108. PMID: 31155644.
45. Zaidi, M. Y., Ethun, C. G., **Liu, Y.**[☺], Poultides, G., Howard, J. H., Mogal, H., . . . Cardona, K. (2019). The impact of unplanned excisions of truncal/extremity soft tissue sarcomas: A multi-institutional propensity score analysis from the US Sarcoma Collaborative. *J Surg Oncol*. PMID: 31172536.
46. Arciero, C., **Liu, Y.**[☺], Gillespie, T., & Subhedar, P. (2019). Surgery and survival in patients with stage IV breast cancer. *Breast J*. doi:10.1111/tbj.13296. PMID: 31087448.

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60. Royce, T. J., **Liu, Y.** [☺], Milowsky, M. I., Efstathiou, J. A., Jani, A. B., Fischer-Valuck, B., & Patel, S. A. (2021). Trimodality Therapy With or Without Neoadjuvant Chemotherapy for Muscle-Invasive Bladder Cancer. *Clin Genitourin Cancer*. doi:10.1016/j.clgc.2021.03.007. PMID:33839040

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143. Hall, K. H., **Liu, Y.** [☆], Jiang, C. ^{*}, & Harvey, R. D. (2020). New and Worsening Long-term Immune-Related Adverse Events with PD-1/PD-L1 Pathway Agents in Patients with Cancer. *Pharmacotherapy*, 40(2), 133-141. doi:10.1002/phar.2354. PMID: 31863604

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151. Holbrook, A., Vey, B., Kim, Y. J., [Liu, Y.](#), & Newell, M. (2020). Utility of tomosynthesis in decreasing skin calcification workup rate. *American Journal of Diagnostic Imaging*, 6(1), 1-6.
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- Cole, E. F., DeGrazia, T., Sun, Y*, Liu, Y. *, & Feldman, R. J. (2021). Assessing Disease Outcome Measures in Bullous Pemphigoid on Standard-Of- Care Therapies. *JID Innov*, 1(4), 100050. PMID: 34909747
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171. Zhuang, T. Z., Ravindranathan, D., **Liu, Y.** [✉], Martini, D. J., Brown, J. T., Nazha, B., . . . Bilen, M. A. (2022). Baseline Neutrophil-to-Eosinophil Ratio Is Associated with Outcomes in Metastatic Renal Cell Carcinoma Treated with Immune Checkpoint Inhibitors. *Oncologist*. PMID: 36427017
172. Sanda, G. E., Shabto, J. M., Goyal, S., **Liu, Y.** [✉], Martini, D. J., Nazha, B., . . . Bilen, M. A. (2023). Immune-Related Adverse Events and Clinical Outcomes in Advanced Urothelial Cancer Patients Treated With Immune Checkpoint Inhibitors. *Oncologist*. PMID: 37285524
173. McDonald, M. W., Bates, J. E., McCall, N. S., Goyal, S., **Liu, Y.** [✉], Rudra, S., . . . Swinney, E. (2023). Insurance Authorization and Access to Proton Therapy for Patients With Head and Neck Cancers. *Int J Radiat Oncol Biol Phys*, 116(2), 404-412. PMID: 36889515
174. Schmeusser, B. N., Manalo, T. A., **Liu, Y.** [✉], Shah, Y. B., Ali, A., Armas-Phan, M., . . . Master, V. A. (2023). Mayo Adhesive Probability Score Does Not Have Prognostic Ability in Locally Advanced Renal Cell Carcinoma. *J Kidney Cancer VHL*, 10(1), 19-25. PMID: 36969300
175. Wells, J., Klosky, J. L., **Liu, Y.** [✉], & Gillespie, T. W. (2022). An overview of implementing an evidence based program to increase HPV vaccination in HIV community clinics. *BMC Public Health*, 22(1), 1696. PMID: 36071389

➤ Statistical Methodology: Non- Peer-Reviewed Manuscripts (Proceedings or Under Review).

1. **Liu, Y.**, Tighiouart, M., & Rogatko, A. (2011). Escalation with overdose control using time to toxicity data for cancer phase I clinical trials. *JSM proceedings, Biometrics Section. Alexandria, VA: American Statistical Association*. 4139-4151.
2. **Liu, Y.**, Nickleach, D., Lipscomb, J. (2013). Propensity Score Matching for Multiple Treatment Comparisons in Observational Studies. *The 59th World Statistics Congress proceeding*.
3. Nickleach D., **Liu Y.**, Shrewsberry A., Ogan K., Kim S., Wang Z. (2013). SAS[®] Macros to Conduct Common Biostatistical Analyses and Generate Reports. *SESUG: The Proceeding of the SouthEast SAS User Group*. <http://analytics.ncsu.edu/sesug/2013/PO-05.pdf>.
4. Zhang. C., Rupji, M., **Liu, Y.**, Kowalski, J. (2017). SAS[®] Macros for Time-Dependent Effects and Risk Factors on Survival. *SESUG: The Proceeding of the SouthEast SAS User Group*, paper AD-136-2017.
5. Zhang. C., Rupji, M., **Liu, Y.**, Kowalski, J. (2018). Two SAS[®] Macros on Backward Elimination in Firth's penalized partial likelihood Approach: Firth's Logistic and Cox Models. *SESUG: The Proceeding of the SouthEast SAS User Group*.

GRANT SUPPORTS

➤ Active Support or Newly Funded Support

Source of Funding: NIH: R01CA272991 (PI: Yang)
 Period of Activity: 6/1/2023 – 5/31/2028
 Title: Real-Time Volumetric Imaging for Motion Management and Dose Delivery Verification
 Role: Co-Investigator (5% effort)

Source of Funding: NIH: 1R01CA275199 (PI: Paulos)
 Period of Activity: 6/1/2023 – 5/31/2028
 Title: Mechanisms of Durable Antitumor Immunity Mediated by PI3K-Targeted T cells
 Role: Co-Investigator (5% effort)

Source of Funding: NIH: 1R01CA262123 (PI: Shin)
Period of Activity: 6/1/2023 – 5/31/2028
Title: Personalized vaccine immunotherapy in combination with anti-PD 1 antibody for recurrent or metastatic squamous cell carcinoma of the head and neck
Role: Co-Investigator (5% effort)

Source of Funding: NIH: 1R01CA276317 (PI: Guan)
Period of Activity: 6/1/2023 – 5/31/2028
Title: Evaluating an evidence-based family history screening program adapted to increase reach and uptake of screening for BRCA-associated cancers in rural public health clinics
Role: Co-Investigator (5% effort)

Source of Funding: NIH: P01 CA257906-01 (PI: Fu)
Period of Activity: 6/1/2022 – 5/31/2027
Title: Deciphering LKB1-associated immunotherapy resistance in lung adenocarcinoma (LUAD)
Role: Core Director (25% effort)

Source of Funding: NIH: 1R01CA266613 (PI: Kang)
Period of Activity: 2/1/2022 – 1/31/2027
Title: Decoding and targeting saccharopine pathway in cancer metastasis
Role: Core Director (5% effort)

Source of Funding: NIH: 1R01AI145231-02 (PI: Waller)
Period of Activity: 6/1/2020 – 5/31/2025
Title: Duvelisib Ameliorates Manifestations of Pneumonia in Established Novel Coronavirus Infection (DAMPEN-CI)
Role: Co-investigator (10% effort)

Source of Funding: NIH: AR076089-01A1 (PI: Feldman)
Period of Activity: 07/01/20-06/30/23
Title: Improving Clinical Trial Recruitment and Outcome Measures in Bullous Pemphigoid
Role: Co-investigator (5% effort)

Source of Funding: NIH/NCI: 1U54CA260563 (I. Sanz)
Period of Activity: 9/30/2020 – 8/31/2023
Title: Immune Regulation of COVID-19 Infection in Cancer and Autoimmunity
Role: Co-investigator (10% effort)

Source of Funding: DoD: W81XWH2110213 (S. Kang)
Period of Activity: 09/01/2021-08/31/2023
Title: Krebs Cycle Signaling for Therapy of Metastatic Lung Cancer
Role: Co-investigator (3.6% effort)

Source of Funding: NIH/NIHR: 1R01NR020154-01 (Wells)
Period of Activity: 07/29/2021-05/31/2026
Title: Implementing an Evidence-Based, Multilevel Intervention to Promote HPV Vaccination Among HIV-Positive Adults
Role: Co-investigator (3% effort)

Source of Funding: Georgia Tech: AWD-002284-G1 (Bilen)

Period of Activity: 08/01/2021-07/31/2023
Title: Investigation of Circulation Tumor Cell Clusters as Potential Biomarkers for Aggressive
Role: Co-investigator (10% effort)

➤ Completed Support

Source of Funding: DoD: W81XWH1910840 (B. Olson)
Period of Activity: 09/30/2019-09/29/2022
Total Direct Cost: \$384,615
Title: Targeting Rb loss using BET inhibition to reprogram the prostate tumor Microenvironment
Role: Co-investigator (2.3% effort)

Source of Funding: DoD (PI: Master)
Period of Activity: 06/01/20-05/31/23
Title: CD8 T-cell Infiltration as a Predictor of Renal Cancer Progression after Surgery
Role: Co-investigator (10% effort)

Source of Funding: NIH/NCI: 1R01CA245386-01A1 (S. Sun)
Period of Activity: 07/07/2020-06/30/2025
Title: c-Myc modulation and its implications in EGFR-targeted cancer therapy
Role: Co-investigator (3% effort)

Source of Funding: NIH: 1R01CA203928-01(PI: Wei Zhou)
Period of Activity: 04/01/17-03/31/22
Total Direct Cost: \$228,750
Title: Targeted Inhibition of Ribosomal RNA Synthesis in LKB1-deficient Cancers
Role: Co-investigator (5% effort)

Source of Funding: US DEPARTMENT OF DEFENSE (PI: Jin-Tang, Dong)
Period of Activity: 08/15/2018-08/14/2021
Total Direct Cost: \$922,183
Title: A novel regulator of cancer stem cell plasticity and its roles in prostate cancer
Role: Co-investigator (4% effort)

Source of Funding: NIH - NIAID (PI: Edmund K. Waller)
Period of Activity: 05/01/2019-04/30/2020
Total Direct Cost: \$242,748
Title: A novel regulator of cancer stem cell plasticity and its roles in prostate cancer
Role: Co-investigator (3% effort)

Source of Funding: V Foundation for Cancer Research-V2015-005 (PI: Lauren McCullough)
Period of Activity: 11/1/2017-10/31/2019
Total Direct Cost: \$200,000
Title: Breast adipose inflammation: epidemiology and outcomes in Black and White women diagnosed with breast cancer
Role: Co-investigator (4% effort)

Source of Funding: NIH: 5 R01 CA142858-04 (PI: A. Marcus)
Period of Activity: 03/01/11-02/29/16
Total Direct Cost: \$201,275
Title: Control of Lung Cancer Invasion and Metastasis by Vimentin
Role: Co-investigator (3.7% effort)

Source of Funding: NIH: 1 R01 CA180805-01 (PI: Van Meir)
Period of Activity: 09/01/13-08/31/16
Total Direct Cost: \$323,672
Title: Discovery of Chemical Probes for Uveal Melanoma
Role: Co-investigator (5.6% effort)

Source of Funding: PCORI: AD-12-11-4532 (PI: M. Goodman)
Period of Activity: 07/01/13-12/31/17
Total Direct Cost: \$2,154,946
Title: Targeted Inhibition of Ribosomal RNA Synthesis in LKB1-deficient Cancers
Role: Co-investigator (10% effort)

Source of Funding: Emory Health Sciences Center SYNERGY Award (PI: T. Gillespie)
Period of Activity: 10/1/16-9/30/17
Total Direct Cost: \$100,000
Title: Advancing Cancer Screening and Early Detection among People Living with HIV (PLWH)
Role: Co-investigator (5% effort)

Source of Funding: Movember Foundation (PI: T. Gillespie)
Period of Activity: 03/01/16-02/28/19
Total Direct Cost: \$1,200,000
Title: Prostate Survivorship Research Network – True NTH
Role: Co-investigator (10% effort)

Source of Funding: Pfizer (PI: Ron Feldman)
Period of Activity: 11/01/17-12/30/19
Total Direct Cost: \$58,959
Title: Impact of Pruritus on Clinical and Biological Outcomes in Atopic Dermatitis
Role: Co-investigator (5% effort)

Source of Funding: Hematology/Oncology Pharmacy Association (PI: Harvey III)
Period of Activity: 01/01/19-12/31/20
Total Direct Cost: \$49,312
Title: Phase II Evaluation of the Effect of 2 Versus 6 Hour Oxaliplatin Infusions on Neuropathy
Role: Co-investigator (5% effort)

Source of Funding: NIH/AID: 1R56AI145231-01 (PI: Waller)
Period of Activity: 05/01/19-04/30/21
Total Direct Cost: \$242,750
Title: Using donor dendritic cells to optimize GvHD and GvL in allogeneic stem cell trans
Role: Co-investigator (3% effort)

Source of Funding: NIH/NCI: 5R01CA140515-10 (PI: Chen)
Period of Activity: 08/01/19-07/31/20
Total Direct Cost: \$244,535
Title: Metabolic rewiring by oncogenic BRAF V600E links ketogenesis pathway to BRAF-MEK1
Role: Co-investigator (5% effort)

Source of Funding: (PI: Rosen)
Period of Activity: 01/01/20-12/31/20
Total Direct Cost: \$50,000
Title: Analysis of objective performance metrics during robotic-assisted colon and rectal surgery
Role: Co-investigator (5% effort)

TEACHING/MENTORING ACTIVITIES

➤ Course Instructor:

2017 Fall - **BIOS 500 Lab** – *Introduction to SAS programming*

2018 Spring- **BIOS 560R** - *Applied and Advanced Statistical Techniques in Observational Studies*

2020 Spring- **BIOS 560R** - *Applied and Advanced Statistical Techniques in Observational Studies* (Average score of evaluation: 4.5/5 for a class size of 33, response rate: 79%)

2022 Spring- **BIOS 530** - *Applied and Advanced Statistical Techniques in Observational Studies* (Average score of evaluation: 4.4/5 for a class size of 27, response rate 85%)

This BIOS 560R is driven by the real-world experience and designed to cover the concepts and implementations of modern analytic methodologies and strategies in observational studies and to equip the students with essential tools and mindset to conduct an observational study for causal inference and prediction. Propensity score methods, modeling for prediction, risk stratification/validation, and the guidance of Good Research Practice will be illustrated along with real-life projects based on National Cancer Database (NCDB) and backed up by the recent literature.

➤ Faculty Mentored:

Ma Tianwen – Research Assistant Professor (2022)

Tarrant McPherson – Research Assistant Professor (2023)

➤ MPH/MSPH/MS Thesis Committee Chair:

Name: [Kelli O'Connell](#)

Program: MSPH in Biostatistics 2016

Thesis: Propensity Score Matched Analysis to Compare the Effectiveness of Proton Therapy versus Photon-Based Radiation for Non-Small Cell Lung Cancer Patients Based on National Cancer Database (Peer-Reviewed Publication #22, 26; Conference Abstract #54, 58, 67)

Name: [Yaqi Jia](#)

Program: MPH in Global Environmental Health 2016

Thesis: Stereotactic body radiotherapy (SBRT) vs. surgery in elderly early stage non-small Cell lung cancer patients (Conference Abstract #63, 69)

Name: [Wendi Liang](#)

Program: MSPH in Biostatistics 2016

Thesis: Analysis of Socioeconomic Disparities in Receipt of Adjuvant Chemotherapy in Stage II Colon Cancer: An Inquiry Based on National Cancer Database (Peer-Reviewed Publication #54; Conference Abstract #79)

Name: [Sun Qin](#)

Program: MPH in Biostatistics 2017

Thesis: Apocrine Carcinoma of the Breast: Treatment Patterns and Outcomes (Conference Abstract #78)

Name: [Alexandra Aiello](#)

Program: MSPH in Biostatistics 2017

Thesis: The Application of Generalized Propensity Score Approaches on Dichotomous, Continuous, and Ordinal Treatment to Analyze the Effect of Total Radiation Dose on Cervical Esophageal Cancer Survival (Conference Abstract #73).

Name: [Ao Jingning](#)

Program: MSPH in Biostatistics 2017

Thesis: A Propensity Score Analysis Exploring the Effect of Adjuvant Chemotherapeutic Agent with Radiation Therapy and Androgen Deprivation Therapy in Patients with High Risk Prostate Cancer (Peer-Reviewed Publication #37; Conference Abstract #76).

Name: [Lael Rayfield](#)

Program: MS in Biostatistics 2017

Thesis: Prognostic Relevance of HPV Infection in Cases of Anal Squamous Cell Carcinoma: A Weighted Propensity Score Analysis See (Peer-Reviewed Publication #31, 38, Conference Abstract #88)

Name: [Xiting Zhu](#)

Program: MPH in Biostatistics 2017

Thesis: Propensity Score Matched Analysis on Survival Profile of Head and Neck Cancer in the U.S. Hispanic Population (Conference Abstract #72)

Name: [Yizhao Xi](#)

Program: MSPH in Biostatistics 2018

Thesis: Assess Balance of Covariates after Propensity Score as Covariate Adjustment: SAS® macro Development and Application (Peer-Reviewed Publication #49, Conference Abstract #85, 91).

Name: [Haocan Song](#)

Program: MPH in Biostatistics 2018

Thesis: Assess Improvement of Balancing Covariates by Propensity Score approach using Generalized Boosted Model (GBM) and Application Based on National Cancer Database.

Practicum: Comparison of the seventh and eighth editions of the American Joint Committee on Cancer (AJCC) staging for oropharyngeal squamous cell carcinomas (OPSCC): A Surveillance, Epidemiology and End Results Program (SEER) database analysis. (Conference Abstract #99 112)

Name: [Ruizhe Wu](#)

Program: MPH in Biostatistics 2018

Thesis: Risk Stratification by Nomogram for Stage II Colon Cancer Patients and Impacts from Adjuvant Chemotherapy on Overall Survival Based on NCDB.

Name: Yiman Li

Program: MPH in Biostatistics 2019

Thesis: The impact of concurrent radiotherapy on overall survival among late-stage melanoma patients treated with immunotherapy.

Name: Mengyu Di

Program: MPH in Biostatistics 2019

Thesis: The predictors for overall survival for small-cell lung cancer patients who treated by immunotherapy.

Name: Chen Jiang

Program: MPH in Biostatistics 2019

Thesis: The role of adjuvant chest wall irradiation in intermediate risk breast cancer following mastectomy based on NCDB. (Peer-Reviewed Publication #115; Conference Abstract #10)

Name: Yuxian Sun

Program: MPH in Biostatistics 2020

Thesis: Whether the proton beam radiation leads to less secondary malignancies among localized prostate cancer patients.

Name: Yuhan Ji

Program: MSPH in Biostatistics 2020

Thesis: Development and validation of risk stratification for metastasis prostate cancer patients.

Name: Ruowen Qi

Program: MSPH in Biostatistics 2020

Thesis: The impact of radiation to the primary tumor for newly diagnosed metastatic prostate cancer.

Name: Xueying Lyu

Program: MSPH in Biostatistics 2020

Thesis: Identify optimum subgroup who would benefit androgen blockade after salvage radiation therapy in prostate cancer.

Name: Xingyu Gao

Program: MSPH in Biostatistics 2021

Thesis: Explore the optimal condition of using propensity score method using the overlap coefficient of covariates.

Name: Mian Guo

Program: MSPH in Biostatistics 2021

Thesis: Using Machine Learning approach to identify the optimal treatment subgroup for breast cancer patient in receiving radiation.

Name: Feifei Geng

Program: MSPH in Biostatistics 2021

Thesis: Evaluation the OS difference among breast cancer patients who received SLND vs. ALND.

Name: Shirley Li

Program: MSPH in Biostatistics 2021

Thesis: The Log Odds of Positive Lymph Nodes (LODDS) Predicts Survival of Cervical cancer

Name: Sihong Li

Program: MSPH in Biostatistics 2022

Capstone: Comparing survival outcomes in men with localized prostate cancer who undergo radiation therapy with versus without treatment delay

Name: Chenbo Sun

Program: MSPH in Biostatistics 2022

Capstone: Overall Survival of Non-Small Cell Lung Cancer Patients Receiving Immunotherapy in Different Radiation Subgroups

Name: Zelin Wang

Program: MSPH in Biostatistics 2022

Capstone: Evaluating the use of the surgery as primary recommended treatment for localized, high risk prostate cancer before and after 2012

➤ MPH/MSPH/MS Thesis Committee Member:

Name: Juhee Lee

Program: MPH in Biostatistics 2010
Chair: Limin Peng
Thesis: Application of Competing Risks Quantile Regression for the Warfarin Aspirin Symptomatic Intracranial Disease (WASID) Study.

Name: Wei Li
Program: MPH in Biostatistics 2014
Chair: Limin Peng
Thesis: Exploring Risk Factors for Vitamin D Deficiency in Cystic Fibrosis Patients and Generally healthy Population

Name: Benjamin J. Flink
Program: MPH in Global Health 2015
Chair: Roger Roachat
Thesis: Disparities in Pancreatic Adenocarcinoma Care Using the National Cancer Data Base

Name: Samuel M. Hyde
Program: MMS in Human Genetics & Genetic Counseling 2015
Advisor: Theresa Gillespie
Thesis: From Mendel's Peas to Applications-Based Genetics: A Novel High School Education Intervention Aimed at Increasing Understanding of Health-Related Genetics and Genomics

Name: Kushal Naik
Program: MPH in Epidemiology 2016
Chair: Michael Goodman
Thesis: Chemo-Radiation With or Without Surgery for Resectable Esophageal Cancer: An Analysis of Survival among 11,122 Patients in the National Cancer Data Base (NCDB) (Peer-Reviewed Publication #29, Conference Abstract #61)

Name: Hiba Z. Ahmed
Program: MPH in Global Epidemiology 2017
Chair: Kristin Higgins, Michael Goodman
Thesis: Guideline Concordant Care Improve Overall Survival for Locally Advanced Non-Small Cell Lung Carcinoma Patients: A National Cancer Data Base Analysis (Peer-Reviewed Publication #26, Conference Abstract #67)

Name: Shuo Wang
Program: MPH in Epidemiology 2018
Chair: Theresa Gillespie
Thesis: Effect of Surgical Margins on Overall Survival in Resectable Pancreatic Cancer.

➤ MPH/MSPH/PHD Student Practicum Supervisor

Name: Priti Shah
Program: MPH in Epidemiology 2017
Chair: Michael Goodman
Thesis: Follow up Imagine and Survival in Head and Neck Cancer Patients

Name: Fu Chao
Program: MPH in Epidemiology 2015
Projects: Pulmonary Sarcomatoid Carcinoma: An Analysis of the National Cancer Data Base (Peer-Reviewed Publication #28, 55, Conference Abstract #44, 80)

Name: Michael Mengyeh Yuan
Program: MPH in Epidemiology 2016
Projects: Squamous Cell Carcinoma of Lung in the United States: Analysis of the National Cancer Database (NCDB) (Conference Abstract #45)

Name: [Xi Liu](#)
Program: MPH in Epidemiology 2016
Projects: The role of postmastectomy radiotherapy in women with pathologic T3N0M0 breast cancer (Peer-Reviewed Publication #25; Conference Abstract # 51, 66)

Name: Chuqing Chen
Program: MPH in Epidemiology 2016
Projects: Adenosquamous Carcinoma of the Esophagus: An NCDB-Based Investigation on Comparative Features and Overall Survival in a Rare Tumor (Peer-Reviewed Publication #30; Conference Abstract #52)

Name: [Zixun Ye](#)
Program: MPH in Biostatistics 2017
Projects: Cognitive Impairment and Overall Survival in Frail Surgical Patients (Peer-Reviewed Publication #95)

Name: [Na Bo](#)
Program: MPH in Biostatistics 2017
Projects: Developing biomarkers for predicting clinical relapse in pemphigus patients treated with rituximab (Peer-Reviewed Publication #96)

Name: En Cheng
Program: MPH in Epidemiology 2017
Projects: Proton vs. Photon Radiation Therapy for Primary Gliomas: An Analysis of the National Cancer Data Base (Peer-Reviewed Publication #40; Conference Abstract #70)

Name: Xi Sheng
Program: MPH in Epidemiology 2017
Projects: The Utilization and Overall Survival of Transanal Local Excision for Stage I Rectal Cancer Persist Compared to Standard Resection: A Retrospective Study Based on the National Cancer Database (Peer-Reviewed Publication #47; Conference Abstract #77)

Name: Minxuan Huang
Program: PhD in Epidemiology 2017
Projects: Epidemiology and Prognosis of Gallbladder Cancer: an Analysis of the National Cancer Data (Manuscript submitted).

Name: Alyssa Nicole Troeschel
Program: PhD in Epidemiology 2017
Projects: Racial/ethnic differences in all-cause and cause-specific mortality patterns among a cohort of invasive US breast cancer patients. (Peer-Reviewed Publication #43).

Name: [Julian Zhao](#)
Program: MPH in Biostatistics 2018
Projects: Defining Clinical Severity and Treatment Responses in a Historical Cohort of Patients with Bullous Pemphigoid. (Peer-Reviewed Publication #96).

Name: Chen Jiang
Program: MPH in Biostatistics 2019

Projects: New or Worsening Immune-Related Adverse Events with Long-Term Use of PD-1 and PD-L1 Checkpoint Inhibitors.

Name: Niya Xiong
Program: MSPH in Biostatistics 2019
Projects: Early Post-Treatment Mortality after Surgery and SBRT for Early-Stage NSCL

Name: Tao Liang
Program: MSPH in Biostatistics 2019
Projects: The impact of Proton Therapy on Overall Survival among Breast Cancer Patients: A NCDB Based Study.

Name: He Jinjing
Program: MSPH in Biostatistics 2020
Projects: Breast adipose inflammation: epidemiology and outcomes in Black and White women diagnosed with breast cancer

Name: Yuxian Sun
Program: MSPH in Biostatistics 2020
Projects: Impact of Pruritus on Clinical and Biological Outcomes in Atopic Dermatitis

Name: Mingrui Zhang
Program: MSPH in Biostatistics 2020
Projects: Matching generalized propensity score software development

Name: Feng Tian
Program: MSPH in Biostatistics 2020
Projects: SAS Macro Development for Propensity Score Balance Check

Name: Limeng Wan
Program: MSPH in Biostatistics 2021
Projects: Outcomes in docetaxel (DOC) vs. abiraterone (ABI) in castration sensitive prostate cancer

Name: Xiaobo Yan
Program: MSPH in Biostatistics 2021
Projects: Impact of Pruritus on Clinical and Biological Outcomes in Atopic Dermatitis

Name: Kexin Guan
Program: MSPH in Biostatistics 2022
Projects: Second Tumor in Prostate Cancer among Patients who received Radiation

Name: Anyue Ruan
Program: MSPH in Biostatistics 2023
Projects: Mimic clinical trial using Large scale of observational data base in lung cancer

Name: Han Xu
Program: MSPH in Biostatistics 2023
Projects: Mimic clinical trial using Large scale of observational data base in breast cancer

Name: Shannon Lu
Program: MSPH in Biostatistics 2023
Projects: Mimic clinical trial using Large scale of observational database in prostate cancer

Name: Weiding Fang

Program: MSPH in Biostatistics 2023
Projects: SAS macro development for streamlined data analyses with a professional report.

Name: Sarah Kulkarni
Program: MSPH in Biostatistics 2024
Projects: Post-radiation Secondary Tumor rate by different radiation modalities – a NCDB-based investigation.

➤ National Cancer Data Base Training Workshop: Course Director

Aug - Nov 2015 at Emory University - This short course was designed to help clinical PIs get familiar with the National Cancer Database, know its advantage and limitation, and step by step guide to starting the research by following a collaborative workflow. The second part of the workshop focused on the analytic workflow by using SAS[®] macros and report template, which was aimed at students/trainees who need to conduct their own data analysis based on NCDB. There were total of **50** participants. A new session will be planned in the near future.

➤ Other Teaching

2015-2017 served as speaker for the topic “Observational Study Designs in Medical Research.” at the oncology reviews journal club at Winship Cancer Institute.

2017-2019 lecture to undergraduate students from the Summer Institute for Training in Biostatistics (SIBS)

2020-2022 Speaker of Statistics for Cancer Biomarker at Winship K12 Intensive Skill Building and Orientation Workshop.

➤ Other Mentorship

2016-2017 served as a mentor for Dr. Youxi Luo, a visiting professor from Hubei University of Technology, Wuhan, China.

2016 -2016 served as a mentor for Da Feng, a visiting Ph.D. student from Huazhong University of Science and Technology, Wuhan, China.

PROFESSIONAL SERVICE ACTIVITIES

2018 – Committee member in MSPH/MPH admission committee, diversity committee, and curriculum committee in the department of Biostatistics and Bioinformatics at Emory University.

2021- Department Representative to Research Advisory Committee at Rollins School of Public Health at Emory University.

SOFTWARE DEVELOPMENT

SAS Macros for routine data analyses with professional report (2011 ~ current): Served as the leading effort for making developments and updates. These are a series of high-performance tools that cover the entire analytic streamline of data analysis and produce journal-quality summary tables, including descriptive statistics, univariate associations, multivariable models, subgroup analyses, propensity approaches, and many others. By delivering high-quality reports, the macros help reduce the burden of data processing, eliminate copy and paste errors, provide transparent views of massive data, enhance the communication among non-statistician collaborators, serve as a foundation for investigators to improve study design and to pursue the next level of investigations, and support the iterative nature of the research (See Bibliography #9-12). Those macros have significantly increased our core capabilities and are routinely used in our daily data analysis projects.

Source code are available at: <https://github.com/Emory-Yuan/BBISR-SAS-Macros/tree/V1>. Archived source code at the time of publication: <https://doi.org/10.5281/zenodo.221637713>.

SAS Macros for propensity score-related implementation (2011 ~ current): Served as the leading effort for making developments and updates. Three SAS macros were developed to calculate the propensity score (PS) for binary or categorical treatment comparison groups, to match or weight the treatments by PS, and to examine the covariate balance after PS implementation. The macros carry out essential steps during the execution of a PS approach and generate professional summary reports and plots to be used in the manuscript directly.

R Function/Package for Propensity Score Matching for multiple treatments: To conduct propensity score matching for more than two-treatment options using generalized propensity scores. It carries a locally optimal matching in the high-dimensional space formed by GPS with a bounded computational burden (See Bibliography #8). In recent development, an R package is underway.

PROFESSIONAL AFFILIATIONS

2004 – Present	Member of the American Statistical Association
2009 – Present	Member of the Society for Clinical Trials
2013 – Present	Member of the International Statistical Institute