Qingzhao Yu

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(Last updated on February 28, 2023)

Education

The Ohio State University, Department of Statistics

Ph.D. in Statistics

M.S. in Statistics

Wuhan University, China, Business School

M.A. in Management

B.A. in Economics

Professional Experience

Jul. 2023-Present	Interim Associate Dean for Research, School of Public Health, LSU Health New Orleans
Sep. 2022-Jul. 2023	Chair, Biostatistics Program, School of Public Health, LSU Health New Orleans
Jul. 2018-Present	Professor (with tenure), Biostatistics Program, School of Public Health, LSU Health New Orleans
Jul. 2012-Jun. 2018	Associate Professor (with tenure), Biostatistics Program, School of Public Health, LSU Health New Orleans
Sep. 2006-Jun. 2012	Assistant Professor, Biostatistics Program, School of Public Health, LSU Health New Orleans
Jan.-Aug. 2003, Oct.-Dec. 2004	Teaching Assistant, Department of Statistics, The Ohio State University (OSU)
Jul. 2005-Aug. 2006	Research Assistant, Department of Statistics, OSU
Jan.-Jun. 2004, 2005	Consultant, Statistical Consulting Service, OSU
Sep. 2003-Aug. 2004	Research Assistant, Center for Survey Research, OSU

Teaching

Short Courses

"Mediation Analysis and Software with Applications to Explore Health Disparities," half day short course, 2019 WNAR/IMS annual meeting, Portland, Oregon, June 23-26, 2019.

"Applied Bayesian Analysis," workshop at School of Public Health, LSUHSC, New Orleans, Louisiana, summer, 2010.

LSU Health Sciences Center

Course Director (Sole Instructor and *Course Developer)

BIOS 6314: Clinical Trials Methodology (Fall, 2021)

BIOS 6100: Biostatistical Methods I (Fall, 2015; Fall, 2023)

BIOS 6102: Biostatistics II (Spring, 2011)

BIOS 6204: Statistical Inference I (Fall, 2012; Fall 2017; Fall 2019-2020, 2022)

BIOS 6206: Statistical Inference II (Spring, 2018; Spring 2020-2023)

BIOS 6210: Categorical Data Analysis (Fall, 2013; Fall, 2014; Fall 2016; Fall 2017; Fall 2018; Fall 2022)

BIOS 6222: Biostatistics II (Spring, 2008)

BIOS 6227: Statistical Programming and Numerical Method (Fall, 2008)

BIOS 6244: Analysis of Categorical Data in the Health Sciences (Fall, 2007; Spring 2009)

BIOS 6298: Biostatistics Seminar (Spring, 2007; Spring 2010; Fall, 2009; Spring 2023)

BIOS 6300: Statistical Computing (Spring, 2013)

BIOS 6302: Longitudinal Data Analysis (Spring, 2010)

BIOS 6310: Sampling Methods (Fall, 2011)

BIOS 6310*: Applied Bayesian Analysis (Spring, 2012; Spring, 2015; Spring 2016)

BIOS Summer Workshop*: Bayesian Data Analysis (Summer, 2008)

BIOS 6500: Special Topic in Biostatistics (Fall, 2010)

BIOS 6500: Multivariate Methods Lab (Spring, 2007)

BIOS 6700: Biostatistics Seminar (Spring, 2019)

BIOS 7318*: Statistical Learning (Spring, 2014; Spring, 2016)

BIOS 7410: Teaching Practicum (Fall, 2023)

BIOS 7900: Dissertation Research

Guest Lecturer

PUBH 6600: Culminating Experience/Capstone (Spring, 2016)

EPID 7201: Advanced Epidemiology Methods (Spring, 2015; 2016; 2018; 2022)

The Ohio State University

STAT 145: Lab instructor, Introduction to the Practice of Statistics (Winter, 2003)

STAT 245: Lab instructor, Introduction to Statistical Analysis (Fall, 2004)

Advisory Activity

PhD Dissertation Adviser/Co-Advisor

Nubaira Rizvi, 06/2023-

Yaqi Zou, 06/2022-

Yang Ou, 07/2021-06/2022, transferred to Indiana University.

Wentao Cao, "Bayesian Mediation Analysis for Categorical or Continuous Outcomes," 08/2018-05/2022.

Paige Fisher, "Inference in Mixed Models with Some Covariates Missing," 09/2017-05/2020.

Ondrej Blaha, "Model Selection and Inference in Linear Fixed and Mixed Effects Models," 09/2017-08/2018.

Lin Zhu, "Bayesian Adaptive Designs for Phase III Clinical Trials," June 2015- December 2019.

Omar Aldibasi, "Estimation of DNA Fragments from PCR Amplification of Microbiome Samples," May 2016-Dec 2018.

Yi Huang, "Statistical Learning Methods and Application," Aug. 2013 - Dec. 2015.

Jonathan Joseph, "Multiple Time Series Classification," Aug. 2012-Dec. 2018.

Han Zhu, "A Bayesian Sequential Randomization Design for Phase III Clinical Trials," June 2011- May 2016.

Ying Fan, "Multiple Mediation Analysis," June 2009- May 2013.

MS Thesis Adviser

Leah Vaidya, 02/2023-present.

Kennedy Dorsey, "Investigate the Use of Biomarkers to Explain Disease Occurrence Related to Smoking," 03/2022-present.

Lisa Kam, "High-Dimensional Mediation Analysis to Determine Gene Mediators that Explain Racial Disparities In Breast Cancer Diagnosis Age," 12/2020-05/2022.

Yaling Li, "A Simulation Study to Check the Consequences of Violating Assumptions in Mediation Analysis," 08/2017-5/16/2019.

Mary E. Moore, "Mediation analysis to explore racial disparity in mathematics among LA high school students," Aug. 2016-May, 2018.

Shuang Yang, "Multivariate analysis on trends in kidney cancer," June 2015- May 2017.

Yi Huang, "Comparison of the Ordinary Least Squares Method and Some Regularization Methods under Multicollinearity in Linear Regression," Jan. 2016-May 2016.

Kaelen Medeiros, "General multiple mediation analysis to examine ethnic differences in anxiety and depression in cancer survivors using the MY-Health survey," Aug. 2014-May 2016.

Ruijuan Gao, "Exploring the Racial Disparity in Health-Related Quality of Life among Young Breast Cancer Survivors in Louisiana," May 2014-May 2016.

Yanjun Xu, "Using change-point models for policy evaluation: an application in spatial data," 2009-2012.

Xiequn Zhang, "Finding Contributing Factors to Racial Disparity of Breast Cancer Mortality Rate in Louisiana Using Statistical Mediation," 2008-2011.

Committee member

Alex Martinez, MS committee member, 2023

Pratibha Shrestha, PhD committee member, July 2021

Soham Mahato, PhD committee member, March 2021 - July 2022

Miranda Li, PhD committee member, Nov. 2020 - June 2022

Cornelius L. Rosenbaum, MS Thesis defense committee member, 2020

Ting Luo, PhD committee member, Nov. 2018 - Aug. 2020

Danelle N. Guillory, PhD committee member, Jan. 2016 - 2017

Ondrej Blaha, PhD committee member, 2015-2017

Lu Zhang, PhD committee member, 2014-2016

Sonika Sharma, MS Thesis defense committee member, 2015

Yuan Zhou, PhD defense committee member, 2014

Rui Wang, MS committee member, 2014

Meichin Hsieh, PhD prospectus and dissertation defense committee, 2013-2016

Yuan Zhou, PhD prospectus committee member, 2013

Meijiao Zhou, MPH committee member, 2013

Todd Tartavoulle MN, RN, CNS, PhD prospectus committee, 2011-2012

Robbie A. Beyl, PhD prospectus and dissertation defense committee, 2012-2013

Jeffrey H. Burton, PhD prospectus and dissertation defense committee, 2012-2013

Joseph Hagan, PhD prospectus and dissertation defense committee, 2009

Others

Summer student: Amy Liu (2023)

Academic adviser for PhD students Mary Elizabeth Moore, Bryant Chen, Raed M Odeh, Heng-Yuan Tung, Xinnan Wang, and Lin Zhu, August 2015- November 2016

Academic adviser for MS students McKensie Patton Osborn, Samantha Lee Spiers, and Shuang Yang, August 2015- November 2016

Research Interests

Bayesian Modeling

Computational Methods

Genetic Analysis

Health Disparity

Machine Learning

Mediation Analysis

Spatial Statistics Analysis

Survey Research

Peer Reviewed Publications (*As the corresponding if not the first author)

Book

1. **Yu, Q.** and Li, B. 2022. Statistical Methods for Mediation, Confounding and Moderation Analysis Using R and SAS. Taylor & Francis Group, LLC. ISBN: 9780367365479.

Statistical Method and Application Journals

2. Rosenbaum, N., **Yu, Q.**, Buzhardt, SA, Sutton, E., Chapple, AG, 2023. Inclusion of proxy variables in logistic regression improves treatment effect estimation in observational studies, *Pharmaceutical Statistics*. DOI: 10.1002/pst.2323.

3. **Yu, Q.**, Cao, W., Hamer, D., Urbanek, N., Straif-Bourgeois, S., Cormier, SA, Ferguson, T., Richmond-Bryant, J., 2023. Associations of COVID-19 hospitalizations, ICU admissions, and mortality with Black and White race and their mediation by air pollution and other risk factors in the Louisiana Industrial Corridor, March, 2020 – August, 2021. *IJERPH*, 20, 4611. doi: https://doi.org/10.3390/ijerph20054611.

4. **Yu, Q.**, Cao, W., Mercante, D., Wu, X., and Li, B., 2022. Bayesian Mediation Analysis Methods to Explore Racial/Ethnic Disparities in Anxiety among Cancer Survivors. *Behaviormetrika*, doi: https://doi.org/10.1007/s41237-022-00185-9.

5. **Yu, Q.**, Lin, Z., Zhang, L., Hsieh, M., Wu, X., and Li, B., 2022. Multiple Third-Variable Analysis for Competing-Risk Data – With an Application to Explore Racial Disparity in Breast Cancer Recurrence. *Stat*, 12(1):e488. doi: https://doi.org/10.1002/sta4.488.

6. Dorling, JL, Martin, CK, **Yu, Q.**, Cao, W., Hochsmann, C., Apolzan, JW, Newton, RL, Denstel, KD, Mire, EF, Katzmarzyk, PT, 2022. Mediators of weight change in underserved patients with obesity: Exploratory analyses from the PROPEL cluster-randomized trial. *The American Journal of Clinical Nutrition.* DOI: 10.1093/ajcn/nqac179.

7. **Yu, Q.**, Yu, M., Zou, J., Wu, X., Gomez, SL, Li, B. 2021. Multilevel Mediation Analysis on Time-to-Event Outcomes - Exploring racial/ethnic Disparities in Breast Cancer Survival in California. *Research Methods in Medicine & Health Sciences*, 2(4) 157-167. https://doi.org/10.1177/26320843211061292.

8. **Yu, Q.**, Zhang, L., Wu, X., and Li, B. 2021. Inference on Moderation Effect with Third-Variable Effect Analysis – Application to Explore the Trend of Racial Disparity in Oncotype DX Test for Breast Cancer Treatment. *Journal of Applied Statistics.* https://doi.org/10.1080/02664763.2021.1968358.

9. Li, B., Chakraborty, S., Weindorf, D.C., and **Yu, Q.*** 2021. Data Integration Using Model-based Boosting. *SN Computer Science*, 2, 400. https://doi.org/10.1007/s42979-021-00797-0.

10. Wen, C., Li, Y., and **Yu, Q.*** 2021. Sensitivity Analysis for Assumptions of General Mediation Analysis. *Communications in Statistics - Simulation and Computation.* DOI: 10.1080/03610918.2021.1908556.

11. Li, B., **Yu, Q.***, Zhang, L., and Hsieh, M. 2021. Regularized Multiple Mediation Analysis. *Statistics and Its Interface*, 14, 449-458.

12. **Yu, Q.** and Li, B., 2020. Third-Variable Effect Analysis with Multilevel Additive Models. *PLoS ONE* 15(10): e0241072. https://doi.org/10.1371/journal.pone.0241072.

13. Fisher, P., Cao, W. and **Yu, Q.***, 2020. Using SAS Macros for Multiple Mediation Analysis in R. *Journal of Open Research Software*, 8: 22. DOI: https://doi.org/10.5334/jors.277.

14. **Yu, Q.** and Li, B., 2021. A Multivariate Multiple Third-Variable Effect Analysis with an Application to Explore Racial and Ethnic Disparities in Obesity. *Journal of Applied Statistics*, 48(4), 750-764. DOI: 10.1080/02664763.2020.1738359.

15. **Yu, Q.**, and Li, B., 2020. Model-Guided Adaptive Sampling for Bayesian Model Selection. *Journal of the Korean Statistical Society*, 49, 1195-1213. DOI: 10.1007/s4295 2-020-00050-z.

16. Li, B., **Yu, Q.** and Peng, L., 2019. Ensemble of Fast Learning Stochastic Gradient Boosting. *Communications in Statistics - Simulation and Computation*, 51(1), 40-52. DOI: 10.1080/03610918.2019.1645170.

17. Zhu, L., **Yu, Q.*** and Mercante, D., 2019. A Bayesian Sequential Design for Clinical Trials with Time-to-Event Outcomes. *Statistics in Biopharmaceutical Research*, 11(4): 387-397. doi: 10.1080/19466315.2019.1629996.

18. **Yu, Q.**, Wu, X., Li, B., and Scribner, R., 2019. Multiple Mediation Analysis with Survival Outcomes – With an Application to Explore Racial Disparity in Breast Cancer Survival, *Statistics in Medicine*, 38: 398–412. doi: 10.1002/sim.7977.

19. **Yu, Q.**, Medeiros, KL, Wu, X., and Jensen, R., 2018. Explore Ethnic Disparities in Anxiety and Depression Among Cancer Survivors Using Nonlinear Mediation Analysis, *Psychometrika*, 83(4), 991-1006. DOI: 10.1007/s11336-018-9612-2.

20. **Yu, Q.**, Zhu, L., and Zhu, H., 2017. A Bayesian sequential design with adaptive randomization for two-sided hypothesis tests, *Pharmaceutical Statistics*, 16: 451-465. DOI: 10.1002/pst.1830.

21. Li, B., and **Yu, Q.**, A Nonparametric Test of Independence Between Two Variables, *Statistical Analysis and Data Mining*, 10(6): 422-435. First published 13 September 2017. DOI: 10.1002/sam.11363. Top Downloaded Article 2017-2018.

22. **Yu, Q.** and Li, B., 2017. mma: An R Package for Mediation Analysis with Multiple Mediators, *Journal of Open Research Software*, 5(1), p.11. DOI: http://doi.org/10.5334/jors.160.

23. **Yu, Q.**, Scribner, R.A., Leonardi, C., Zhang, L., Park, C., Chen, L., and Simonsen, N.R., 2017. Exploring racial disparity in obesity: a mediation analysis considering geo-coded environmental factors, *Spatial and Spatio-temporal Epidemiology*, 21, 13-23. DOI: http://dx.doi.org/10.1016/j.sste.2017.02.001.

24. Zhu, H., **Yu, Q.***, and Mercante, D., 2017. A Bayesian Sequential Design with Binary Outcome. *Pharmaceutical Statistics*, 16(3), 192-200. DOI: 10.1002/pst.1805.

25. Zhu, H., **Yu, Q.***, 2017. A Bayesian Sequential Design Using Alpha Spending Function to Control Type I Error. *Statistical Methods in Medical Research*, Prepublished July 18, 2015, 26 (5), 2184-2196. DOI:10.1177/0962280215595058.

26. **Yu, Q.**, Zhu, H., and Wu, X. 2015. Adaptive Robust Estimators to Handle Missing Values in Estimating Tumor Stage Distributions in Population-Based Cancer Registration. *Journal of Biometrics & Biostatistics*, 5:243. doi:10.4172/2155-6180.1000243.

27. **Yu, Q.**, and Li, B., 2014. Regularization and Estimation in Regression with Cluster Variables. *Open Journal of Statistics*, 4(10), 814-825.

28. **Yu, Q.**, Fan, Y., and Wu, X. 2014. General Multiple Mediation Analysis With an Application to Explore Racial Disparity in Breast Cancer Survival. *Journal of Biometrics & Biostatistics*, 5(2): 189. doi:10.4172/2155-6180.1000189

29. **Yu, Q.**, MacEachern, S.N., and Peruggia, M., 2013. Clustered Bayesian Model Averaging. *Bayesian Analysis*, 8(4), 883-908.

30. Fan, Y., **Yu, Q.***, Wu, X., and Hsieh, MC, 2013, Data Quality Evaluation Using MART Guided Generalized Linear Mixed Model - With Application to Evaluate the SEER Cancer Staging Data. *Journal of Data Analysis & Operations Research,* 1(1), 17-24.

31. **Yu, Q.**, Li, B., Fang, Z., and Peng, L., 2012, Model Guided Adaptive Design and Analysis in Computer Experiment. *Statistical Analysis and Data Mining*, 5(5), 399-409.

32. Xu, Y., **Yu, Q.***, Scribner,R., Theall, K., Scribner, S., and Simonsen, N., 2012, Multilevel Spatiotemporal Change-point Models for Evaluating the Effect of an Alcohol Outlet Control Policy on Changes in Neighborhood Assaultive Violence Rates, *Spatial and Spatio-temporal Epidemiology*, 3(2), 121-128.

33. **Yu, Q.**, Wu, X.C., Andrews, P., Mercante, D., Ranganath, P., Ajani, U., Qiao, B., and Wohler, B. 2011, Statistical Methods to Check Agreement between Two Coding Systems in the Absence of Double-Coded Data. *JP Journal of Biostatistics*, 6(1), 1-18.

34. Theall, K., Scribner, R., Stephanie Broyles, **Yu, Q.**, Jigar Chotalia, Simonsen, N., Schonlau, M., and Carlin, B., 2011, Impact of Small Group Size on Neighborhood Influences in Multilevel Models. *Journal of Epidemiology and Community Health*, 65(8), 688-695.

35. **Yu, Q.**, MacEachern, S. N. and Peruggia, M. 2011, Bayesian Synthesis: Combining Subjective Analyses, with an Application to Ozone Data. *The Annals of Applied Statistics*, 5(2B), 1678-1698.

36. **Yu, Q.** 2010, Weighted Bagging - A Modification of AdaBoost from the Perspective of Importance Sampling. *Journal of Applied Statistics*, 38(3), 451-463.

37. **Yu, Q.**, Li, B., Fang, Z. and Peng, L. 2009, An Adaptive Sampling Scheme Guided by BART - with an Application to Predict Processor Performance. *The Canadian Journal of Statistics*, 38(1), 136-152.

38. Li, B. and **Yu, Q.** 2009, Robust and Sparse Bridge Regression. *Statistics and Its Interface*, 2, 481-491.

39. Li, B., Sanderlin, R., Melanson, R. and **Yu, Q.** 2009, Spatio-Temporal Analysis of A Plant Disease in A Non-uniform Crop: A Monte Carlo Approach. *Journal of Applied Statistics*, 38(1), 175-182.

40. **Yu, Q.**, Li, B. and Scribner, R. 2009, Hierarchical Additive Modeling of Nonlinear Association with Spatial Correlations - An Application to Related Alcohol Outlet Destruction and Changes in Neighborhood Rates of Assaultive Violence. *Statistics in Medicine*, 28(14), 1896-1912.

41. Li, B., **Yu, Q.** 2008, Feature Extraction for Classification of Functional Data, *Computational Statistics & Data Analysis*, 52(10), 4790-4800.

42. **Yu, Q.**, Scribner, R., Carlin, B., Theall, K., Simonsen, N., Ghosh-Dastidar, B., Cohen, D., Mason, K. 2008, Multilevel Spatio-temporal Dual Changepoint Models for Relating Alcohol Outlet Destruction and Changes in Neighborhood Rates of Assaultive Violence, *Geospatial Health*, 2(2), 161-172.

43. **Yu, Q.**, Stasny, E. A. and Li, B. 2008, Bayesian Models to Adjust for Response Bias in Survey Data: An Example in Estimating Rape and Domestic Violence Rates from the NCVS, *Annals of Applied Statistics*, 2, 665-686.

Collaboration Journals

44. Wu, X., **Yu, Q.**, Yi, Y., Maniscalco, L.S., Hsieh, M., Gruber, D. Mendoza, L., Subbiah, S., Sokol, T., Shrestha, P., Chen, W.V., Melderos, E, and Ochoa, A., 2023. Effect of Chronic Disease on Racial Difference in COVID-19-Associoated Hospitalization among Cancer Patients. *Journal of the National Cancer Institute*.

45. Chauncey T., **Yu, Q.**, Armbruster, P. and Ballard, R.W., 2023. A Survey of White Spot Lesion Prevention and Resolution in U.S. Dental School Curricula. *Journal of Dental Education*. DOI: 10.1002/jdd.13313.

46. Li, M., Fritz, J.M., Gonzalez, G.V., Leonardi, C., Phillippi, S., Trapido, E.J., Celestin, M.D., **Yu, Q.**, Tseng, T., 2023. Social support moderates the relationship between minority stress and stage of change among LGBTQ Smokers in the Deep South. Accepted by *Current Psychology*.

47. Laughlin, IA, Li, T., **Yu, Q.**, Wu, X., Yi, Y., Hsieh, MC, Havron, W., Shoup, M., Chu, QD, 2023. Impact of Medicaid Expansion on Breast Cancer Diagnosis and Treatment in Southern States. *Journal of the American College of Surgeons* 236(4): 838-845, April 2023. DOI: 10.1097/XCS.0000000000000550 .

48. Shrestha, P., Chu, Q., Hsieh, MC, Yi, Y., Peters, E., Trapido, E., **Yu, Q.**, Ferguson, T. Wu, X., 2023. Distance to radiation therapy facility influences surgery type among older women with early-stage breast cancer, not young women. *Cancer Medicine*, 12:6842-6852. DOI: https://doi.org/10.1002/cam4.5474.

49. Paige, J.T., Bonanno, L., Garbee, D.D., **Yu, Q.**, Kiselov, V., Badeaux, J.A., Martin, J.B, Kalil, D.M., Raymond, J. D., 2022. Team Training for Inter-Professional Insight, Networking, and Guidance (T2IPING) Points. Accepted by *International Journal of Healthcare Simulation - Advances in Theory & Practice*.

50. Hummel, B., **Yu, Q.**, Frazier, J., Johnson, J., Armbruster, P. and Ballard, R.W., 2022. The prevalence of developmental dental and eruption anomalies assessed using panoramic radiographs: a retrospective study. *General Dentistry*.

51. Thayer, S., Townsend, JA, Peters, M., **Yu, Q.**, Odom, M., Sabey, KA, 2022. Kovanaze Intranasal Spray vs Traditional Injected Anesthetics: a Study of Pulpal Blood Flow Utilizing Laser Doppler Flowmetry. *Anesthesia Progress* 69(1), 31-38. DOI: 10.2344/anpr-68-03-10.

52. Luo, T., Li, M., Williams, D., Fritz, J., Beiter, K., Phillippi, S., **Yu, Q.**, Kantrow, S., Lin, W., Kao, Y.H., Chen, Y., Chen, L., Tseng, T.S., 2022. A WeChat-Based Smoking Cessation Intervention for Chinese Smokers: A Pilot Study. *Internet Interventions*. DOI: 10.1016/j.invent.2022.100511.

53. James, MK, **Yu, Q.**, Mon, HH, Xu, X., Blanchard, AB, Armbruster, P., Balaard, RW, 2022. Comparison of Tie Wing Fracture Resistance of Differing Ceramic Brackets. Accepted by the *Turkish Journal of Orthodontics*.

54. Michaelis J., **Yu, Q.**, Lallier T., Xu X., Ballard, RW, Armbruster, P., 2022. Quantifying the degree of white spot lesions on enamel caused by different commercial beverages using the Canary Caries Detection System: An in-vitro study. *Journal of Dental Research, Dental Clinics, Dental Prospects*, 16(1):29-34. doi: 10.34172/joddd.2022.005.

55. Paige, J.T., Rogers, C., Kerdolff, K., Garbee, D.D., Bonanno, L., **Yu, Q.**, 2022. Conceptualizing a Quantitative Measurement Suite to Evaluate Healthcare Teams. *Simulation & Gaming*, 53(1). DOI: 10.1177/10468781211066348.

56. Laird, C., Xu, X., **Yu, Q.**, Armbruster, P., Ballard, RW, 2021. Nickel and Chromium Ion Release from Coated and Uncoated Orthodontic Archwires under Different pH Levels and Exposure Times.*Journal of Oral Biosciences.* DOI: 10.1016/j.job.2021.10.007.

57. Luo, T., Li, M., Williams, D., Fritz, J., Phillippi, S., **Yu, Q.**, Kantrow, S., Chen, L., Chen, Y., Beiter, K., Tseng, T.S., 2021. Implementation of a WeChat Based Smoking Cessation Program for Chinese Smokers. *International Journal of Environmental Research and Public Health*,18(21):11189. doi: 10.3390/ijerph182111189.

58. Paige, J.T., Bonanno, L., Garbee, D.D., **Yu, Q.**, Kiselov, V., Badeaux, J.A., Martin, J.B, Kalil, D.M., Raymond, J. D., 2022. Team Training for Inter-Professional Insight, Networking, and Guidance (T2IPING) Points: A Study Protocol. *International Journal of Healthcare Simulation - Advances in Theory & Practice*, 1(2), 26-36. DOI: 10.54531/FQAX8042.

59. Melvin, E., **Yu, Q.**, Xu, X., Laird, C.G., Armbruster, P., Ricahrd, BW, 2021. A Comparison of Traditional Orthodontic Polishing Systems with Composite Polishing Systems following Orthodontic Debonding. The Saudi Dental Journal. https://doi.org/10. 1016/j.sdentj.2021.09.011.

60. Tseng, T.S., Celestin, MD, **Yu, Q.**, Li, M., Luo, T., Moody-Thomas, S., 2021. Use of Geographic Information System Technology to Evaluate Health Disparities in Smoking Cessation Class Accessibility for Patients in Louisiana Public Hospitals. Frontiers in Public Health 9:712635. doi: 10.3389/fpubh.2021.712635.

61. Luo, T., Li, M., Williams, D., Fritz, J., Phillippi, S., **Yu, Q.**, Kantrow, S., Chen, L., Chen, Y., Beiter, K., Tseng, T.S., 2021, Urban and Rural Disparities in a WeChat-Based Smoking Cessation Intervention among Chinese Smokers. *International Journal of Environmental Research and Public Health*, 18(13). DOI: 10.3390/ijerph18136731.

62. Lanford, M., Johnson, J., Armbruster, P., **Yu, Q.**, Ballard, RW, 2021. Prevalence of Molar-Incisor Hypomineralization within a Single United States Orthodontic Department. Pediatric Dentistry, 43(5), 51-57.

63. Paige, J.T., Kerdolff, K.E., Rogers, C.L., Garbee, D.D., **Yu, Q.**, Cao, W., Sergeii, R., Ronanno, L., 2021, Improvement in Student-led Debriefing Analysis After Simulation-based Team Training Using a Revised Teamwork Assessment Tool. *SURGERY*, 170(6), 1659-1664. DOI: https://doi.org/10.1016/j.surg. 2021.06.014.

64. Kuznetsov, S., **Yu, Q.**, Spieler, B., Hartsough, R., Zhu, X., Murnan, E., Hironaka, M., Zaid, W., 2021, Can radiographic tumor volume of oral squamous

cell carcinoma help predict clinical and pathological tumor features? *Journal of Oral and Maxillofacial Surgery.* doi: https://doi.org/10.1016/j.joms.2021.06.012.

65. Zhang, L., Hsieh, M.; Kelly, C.; Hicks, C.; **Yu, Q.**; Shi, L.; Wu, J.; Wu, X., 2021, Racial Differences in the Risk of Second Primary Bladder Cancer Following Radiation Therapy among Localized Prostate Cancer Patients. *Cancer Epidemiology*, 73, August 2021, 101967. DOI: https://doi.org/10.1016/j.canep.2021.101967.

66. Ballard, R, **Yu, Q**, Xu, X, Armbruster, P, Coreil, MN, 2021. Comparison of Tensile Bond Strength of New and Rebonded Symetri Clear^{TM} Ceramic Brackets with Transbond^{TM} XT or BluGloo^{TM}, with or without Surface Treatment: An In-Vitro Study, *International Orthodontics*, 19(2), 252-258. DOI: https://doi.org/10.1016/j.ortho.2021.04.001.

67. Simkin, J., Valentino, J., Cao, W., McCarthy, C., Marrero, L., Dasa, V., Leonardi, C., **Yu, Q**, 2021, Quantifying mediators of racial disparities in osteoarthritis outcome scores: A cross-sectional analysis. *JBJS Open Access*, 6(3), - e21.00004. doi: 10.2106/JBJS.OA.21.00004.

68. Yi, B., Cheng, H., Wyczechowska, D, **Yu, Q**, Li, L., Ochoa A.C., Rike, A.I., and Xi, Y., 2021, Sulindac modulates the response of proficient MMR colorectal cancer to anti-PD-L1 immunotherapy. *Molecular Cancer Therapeutics*, 20(7), 1295-1304. doi: 10.1158/1535-7163.MCT-20-0934.

69. MurphyBond, C, Xu, X., **Yu, Q**, Armbruster, P., and Ballard, R., 2021, Bond strength of orthodontic brackets using the anti-bacterial primer Denteshield   . Accetped by *Australasian Orthodontic Journal*.

70. Dragonas, P, Prasad, HS, **Yu, Q**, Mayer, ET, Fidel PL, 2021, Bone regeneration in maxillary sinus augmentation using Advanced-platelet rich fibrin (A-PRF^{TM}) and plasma rich in growth factors (PRGF): A pilot randomized controlled trial. Accepted by *The International Journal of Periodontics & Restorative Dentistry*.

71. Paige, JT, Garbee, DO, **Yu, Q**, Zamjahn, J, Baroni de Carvalho, R, Zhu, L, Rusnak, V, Kiselov, V, 2020, Brick in the Wall? Linking Quality of Debriefing to Participant Learning in Team Training of Inter-Professional Students. *BMJ Simulation & Technology Enhanced Learning.* Published Online First: 27 January 2021. doi: 10.1136/bmjstel-2020-000685.

72. Knott, H, Xu, X, Kee E, **Yu, Q**, Armbruster, P, and Ballard, R, 2020. A Comparison of Shear Bond Strength of Brackets to Zirconia Using Different Adhesive Systems. *Australasian Orthodontic Journal*, 37 (1), 62-68.

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Software

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Selected Abstracts

Zhang, L., Hsieh, M., Yu, Q., Wu, X., 2019. Racial difference in the risk of secondary bladder cancer following radiation therapy among prostate cancer patients. DOI: 10.1158/1538-7445.AM2019-4204.

Ferguson, T.F., Danos, D.M., Leonardi, C., Yu, Q., Wu, X., Scribner, R.A.,2017. Association of Concentrated Disadvantage with Cancer Incidence in Louisiana. Annals of Epidemiology; 27:508.

Zhang L, Ferguson TF, Wu XC, Hsieh MC, Fontham E, Loch MM, **Yu Q**, Chen V., 2015. Frequency and predictors of insufficient chemotherapy use among stage I-III breast cancer patients by molecular subtype. J Clin Oncol. 2015 Oct; 33(28_suppl):154. doi: 10.1200jco.2015.33.28_suppl.154.

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Papers submitted for publication

1. Hansen, CS, Armbruster, P, **Yu, Q**, Xu, X, Ballard, Debonding Characteristics of Monocrystalline and Polycrystalline Ceramic Brackets.

2. Hsieh M., **Yu, Q.***, Lefante, J., and Myers L., Multiple Mediation Analysis with Survival Data: An Application to Analyze Racial Disparity in Ovarian Cancer Survival.

3. Payne, R., **Yu, Q.**, Armbruster, PC, and Ballard, RW, Comparison of bond strength when Reliance Assure Plus is Used in Different Orthodontic Bracket Bonding Techniques.

4. Reaves, J., **Yu, Q.**, Wen, Z., Himel, V., Favre, T., and Sabey, K., In Vitro Comparison of Contemporary Endodontic Irrigants Using PIPS Laser Irrigation: Efficacy Against Entercoccus Faecalis Biofilms, submitted to Journal of Endodontics.

5. Benton BJ, **Yu, Q.**, Armbruster, P., and Ballard, R., Comparison of Arch Forms between African American and North American Caucasian Populations, submitted to European Journal of Orthodontics & Dentofacial Orthopedics.

6. Ritter, Z., Himel, VT, **Yu, Q.**, Roberts, H., Sabey, KA, An In Vitro Comparison of Rotary Endodontic Files: Torsional Fatigue.

7. Buczak, D., Himel, VT, DiCArlo, V., **Yu, Q.**, Sabey, KA, Canal morphology identification using conventional imaging and cone beam volumetric tomography – how accurate are we? Submitted to Journal of Endodontics.

8. Bui, HM, Armbruster, PC, **Yu, Q.**, Ballard, RW, Comparison of Arch Forms Between Vietnamese-American and Caucasian Populations, submitted to Journal of Orthondontics.

9. Evans, K., Armbruster, PC, **Yu, Q.**, Ballard, RW, Comparison of Bracket Bind Strength Using Different Intensity Curing Lights, submitted to Progress in Orthodontics.

Grants and Contracts

Active

Co-I, R01 (PI, Liu), NCI 1R01CA266269, HER3-PHF8 signaling axis in triple-negative breast cancer progression. 2,032,967. 12/23/2022-11/30/2027.

MPI, RO1 (Xi and Yu), NCI 1R01CA275089, Interactions between ES-miRNAs and environmental risk factors are responsible for TNBC progression and associated racial health disparities: a novel analysis with multilevel moderation inferences. 1,837,500. 01/01/2023-12/31/2027.

MPI, NCI 3R01CA260698-02S1, Administrative Supplement to RO1 (PI, Xi), Investigate interactive roles of environmental, behavioral and genetic factors on racial disparities in breast cancer outcomes. 110,250. 09/01/2022-08/31/2023.

PI, NIMHD 2R15MD012387-02, Trends of disparities in breast cancer progression and health care considering multilevel risk factors. 453,673. 08/07/2022-07/31/2025.

Primary Mentor, LACaTS Roadmap Scholar Award (PI Celestin), 7/1/22-6/30/2024.

Co-Investigator, P42ES013648, LSU # 48128, LSU Superfund Research Center - Environmentally Persistent Free Radicals. Data Management Core (PI Cormier, 751,048), 3/1/2020-1/31/2025.

Co-Investigator, NCI 1R01CA226001, Chemoprevention of Breast Cancer by Targeting Glucose Metabolism with HJC0152 (PI Shen, 2,334,409), 4/1/2018-3/31/2023.

Co-Investigator, NCI 7R01CA231150, Targeting Glucose Metabolism with HJC0152 for Treating Metastatic Breast Cancer (PI Shen, 2,352,669), 9/1/2019-6/30/2023.

Statistician, Tobacco Control Initiation-operation & oversight (PI Moody-Thomas & Celestin). 4/1/2015- present.

Co-Investigator, CDC NU58DP006332 NPCR, Cancer prevention and control programs for state, territorial, and tribal organizations. 2020-present.

Co-Investigator, HHSN261201000030: Surveillance, Epidemiology & End Results (SEER) Program (PI Chen & Wu, 1,611,191). 2010-2027.

Pending

PI, R03 CA287240-01, Investigate Environmental Induced Genomic Variants in Explaining Survival Differences among TNBC Patients Using the AoU Study. 300,000. 9/1/2023-8/31/2025.

PI, R21, Impact of ENDS on Behavioral and Health Outcomes: An Investigation through Intermediate Biomarker Outcomes. 416.634. 04/01/23-03/31/22.

Biostatistics Core Leader, U54 (Penn and Gilpin), Long-Term Systemic Effects of Electronic Nicotine Delivery Systems (ENDS) Exposures at Distinct Windows of Developmental Vulnerability. 162,000. 09/01/2023-8/31/2028.

Co-I, R01 (PI, Xu), Novel antifungal denture base resin against Candida-associated denture stomatitis. 2,983,391. 07/01/2020 - 06/30/2025.

Co-I, R01 (PI, Liu), Epigenetic control of FOXA1-HER3 axis in EGFR-positive triple negative breast cancer.

Site PI, R21 (PI, Chen), Impact of cannabis use on cardiometabolic risk among U.S. workers: the role of marijuana legalization and working conditions.

Co-I, DOD/BCRP (PI, Shen), BC210184, 2/1/2022-1/31/2025, Development of CYD0618 and its protein degraders for the treatment of metastatic triple-negative breast cancer, 910,000.

Completed

Co-Investigator, NCI 7R01CA201011, ErbB3-miRNA axis in tumor metastasis of erbB2-positive breast cancer (PI Liu, 1,729,055), 9/1/2019 - 8/31/2022.

PI, 3P42ES013648-09S2, NIEHS, Multilevel Mediation Analysis for Investigating Effects of Environmental and Individual Risk Factors on Respiratory Diseases. 226,970. 9/1/2021-6/30/2022.

Co-Investigator, NIDCR 1R01DE026782, High Performance Antimicrobial Fluoride Releasing Dental Materials (PI Xu, 2,465,297), 7/1/2017-6/30/2022.

Co-Investigator, 2019 METAvivor Founders Award, IGF-2 in Herceptin refractory HER2-positive breast cancer (PI Liu, 200,000), 4/1/2020-3/31/2022.

Mentor, AHA Postdoctoral Fellowship (PI James Dorling), The role of anxiety, depression and eating behaviors on weight loss in underserved population: a multiple mediation analysis (104,674), 1/1/2020-12/31/2021.

Co-PI, NCI/SEER award 75N91020P00728, Validation study of California Breast Cancer Registry Data with Synthetic Census Tracts. 8/11/2020-11/22/2021.

PI, NIH/NIMHD 1R15MD012387, Multilevel Mediation Analysis to Explore Racial Disparities in Breast Cancer Recurrence and Survival using CDC Special Studies (438,000), 9/24/2017-9/30/2021.

Team Leader, NIH organized codeathon on health disparities, Mediation analysis for disparity research. June 2021.

Co-Investigator, Southern Group on Educational Affairs Medical Education Scholarship, Research and Evaluation Grant: Creating the Quick Teamwork Assessment Scale (Q-TAS) to Guide and Improve High Quality Team Debriefs: A Pilot Study in High Fidelity Simulation (PI Paige, 5,000). 4/2017-4/2019.

Biostatistician, NIH/NIDCR 2R01DE019452-05: BrpA in Modulation of Streptococcus mutans Virulence (PI Wen, $2,048,111$). 08/1/2015 - 07/31/2020.

Bio-Statistician, HCSD 158700126A. 7/1/2014-6/30/2020 (up to 15%).

Biostatistician, 5525300019, Dental School Oral & Craniofnsionacial Biology. 4/1/12-6/30/2021. (10%, 7.167% after 8/31/2013, 10% 2020).

Co-Investigator, NIH R24 Project #1497400249A CBPR Community-Academic Partnership to Address Health Disparities in New Orleans(PI Scribner, 100,000). 1/1/2016-12/31/2018.

Statistician, R01 DE022783-01A1 NIH/NIDCR, Novel biofilm-inhibitory dental materials (PI Xu), 04/01/13 - 03/31/18.

PI, SPH LSUHSC Pilot funding: Multilevel Mediation Analysis to Explore Racial Disparity in Obesity and Related Chronic Diseases ($25,000$). 7/1/2016-12/31/2018.

Biostatistician, 1R01DE022069-01A1 NIH (122800029A): The role of Candida albicans biofilms in a novel rat model of denture stomatitis (PI Noverr, 250,000). 12/1/12 - 11/30/18.

Co-Investigator, 155500047A HRSA ANE Grant Teamwork Training for Interprofessional Students (TTIPS): Improving the quality of care for veterans and diverse populations with behavioral health disorders (PI Bonanno, 1,049,739). 7/1/14-6/30/17.

Co-Investigator, NIH R01 PAR-11-308, Spatial Uncertainty: Data, Modeling, and Communication (PI Lipton), 1/1/2013-12/31/2016.

Co-Investigator, Mid-South TCC: Monitoring Social Determinants of Obesity Outcomes for a Community Clinic (PI Scribner, 100,000). 8/1/2014-7/31/2016.

Co-Investigator, US Army contract # W81XWH-10-0962, project# 149200948A: Hyperbaric Oxygen Therapy in the Treatment of Chronic Mild-Moderate Blast-

Induced Traumatic Brain Injury PCS and PTSD (PI Harch). 9/30/2010-3/29/2016.

Biostatistician, HHSN261201000030: CDC cost sharing, (PI Chen & Wu). 7/1/2010-6/30/2016.

Biostatistician, Stryker Craniomaxillofacial 113 1226000 10001 35200 122600039A: A Health Economic Analysis of Maxillomandibular Fixation Techniques (PI Neary & King). 09/01/15 - 06/31/18.

Biostatisticain, Louisiana Teen Outreach Program Evaluation (PI Robinson). 3/1/2014-10/30/2015.

Bio-Statistician,LSU's Improving Clinical Outcomes Network (PI Mercante) 158011001A. 7/1/2012-6/30/2014 (up to 15%).

Co-Investigator, LSUHSC Educational Enhancement Grants: Team Training for Emergency Room Trauma Transfers (T2ERT2) (PI John Paige, 2627). 7/14 - 6/15.

Co-Investigator, LSUHSC Educational Enhancement Grants: Medical Student Suturing Curriculum (PI John Paige, 3952). 9/1/13 - 8/31/14.

Co-Investigator, LSUHSC Educational Enhancement Grants: Teamwork Training of Inter-Professional Undergraduate Students (PI John Paige, 3400). 7/11 - 6/12.

Biostatistician, NIH, 1R56DE022524-01A1: CD8 Tcells and Tissue E-cadherin in Host Defense Against Oral Candidiasis in HIV (PI Fidel, 276,684). 9/1/12 - 8/31/14.

Co-Investigator, National Institute of Alcohol Abuse and Alcoholism Fund 1 R01 CA157565: Community Influences on NHANES Diet and Physical Activity (PI Scribner, 594,640). 2011-2014.

Biostatistician, Design and Analysis Core, LSU Improving Clinical Outcomes Network. June, 2012-Aug, 2014. (Up to 20% in 2012, up to 15% after)

PI, NAACCR 158050018A: Weighting Method to Handle Missing Values in Estimating Tumor Stage Distributions in Population-Based Cancer Registration. 082012–11/2013.

PI, NAACCR HHSN261200900015C: Data Quality Control through Nonlinear Association Analysis of Unknown Staged Cancer Cases. 06/2011–12/2012.

Consultant, NIH Institute of Nursing Research 1R03NR012052-01. Models of Prenatal Care and Perinatal Health Indicators in Disaster Recovery Area (PI Giarrantano). 4/1/10-3/31/13.

Co-Investigator, National Institute of Alcohol Abuse and Alcoholism Fund 1 RC1 AA019329-01: Comparing the Effectiveness of City Policy and Structure in Health Disparities (PI Scribner, 236,579). 2009-2011.

Co-PI, Determinants of Human Longevity and Healthy Aging (PI Jazwinski, 206,107). 01/2009 - 06/2011.

PI, DHH/OPH/EPI, CFMS 671761: Fishing Tissue HG Concentration Analysis. 2008-2009.

Statistician, NIAAA RO1 AA013810-03: Neighborhood Environment and Alcohol Health Disparities (PI Scribner), 2006 - 2008.

Research Associate, National Science Foundation, Grant Number SES-0437251: Hierarchical Bayesian Methods in Consumer Behavior (PI Dean), 2005 - 2006.

Research Associate, National Institute of Justice, Office of Justice Programs, U.S. Department of Justice, award number 93-IJ-CX-0050: Adjusting the National Crime Survey's Estimates of Rape and Domestic Violence for 'Gag' Factors in Reporting (PI Stasny and Coker). 2004 - 2005.

Not Funded Proposal

MPI, R01, Interactions between ES-miRNAs and environmental risk factors are responsible for TNBC progression and associated racial health disparities. 1,837,500. 09/01/2021-08/31/2026.

PI, R21, NIH/NIDA, DA055218-01, Impact of E-Cigarette Patterns on Behavioral and Health Outcomes: A longitudinal Path Study with Moderation Effects, 416,634. 09/01/2021-08/31/2023.

PI, NSF, 07/01/2021-06/30/2024, Advanced Modeling Method in High-Dimensional Multilevel Mediation and Moderation Analysis, 562,554.

MPI, R01, NIH/NLM, R01LM013875, 09/01/2021-08/31/2025, A new computational framework for immune predictions, 1,473,563.

PI, R15, NIH/NIMHD, R15MD016535, 07/01/2021-06/30/2024, Novel Mediation and Moderation Analysis Methods to Monitor Trends in Health Disparities and Evaluate Efficiency of Health Policies, 453,674.

Co-Investigator, UG3/UH3, RFA-DK-19-017, 04/01/2021-03/31/2026, Body weight regulation in humans: a study of the physiological and biobehavioral.

Co-Investigator, R01, NIH/NIDCR, 4/1/2021-3/31/2026, MecA in Streptococcus mutans virulence modulation, 2,049,124.

Co-Investigator, 08/01/2021-07/31/2022, Concentrated Disadvantage-Modified Associations of COVID-19 Morbidity and Mortality with Air Toxics Exposures, 303,766.

Co-Investigator, HEI proposal response to RFA-20-1B: Air Pollution, COVID-19, and Human Health, 02/1/2021-01/31/2022, Investigating concentrated disadvantage-modified associations of COVID-19 morbidity and mortality with air toxics exposures, 249,987.

PI, 1 R21 MD016151-01, NIH/NIMHD, 07/01/2021-06/30/2023, Data Mining Techniques in Multilevel Mediation Analysis to Explore Health Disparities, 416,689.

PI, NSF, Methodology, Measurement & Statistics Program, 01/01/2021-12/31/2025, 605,287, Collaborative Research: Machine Learning Techniques in Multilevel Mediation.

PI, NCI 1 R01 CA251933-01, 01/01/2021-12/31/2025, 2,270,058, Modern Modeling in Multilevel Mediation Analysis to Explore Cancer Disparities.

Co-I, NIMHD R21MD012575 (PI Scribner), 03/01/2018-2/29/2020, 200,000, Social Determinants Role in Explaining Disparities in Hepatocellar Carcinoma. Percentile: 7.

PI, 1R21DK117381-01, 07/01/2018-06/30/2020, NIH, 401,500, Exploring Racial/Ethnic Disparities in Obesity and Related Chronic Diseases through Multilevel Mediation Analysis. Submitted in June 2017.

PI, R21CA231479, 10/1/2019-9/30/2021, Exploring Racial/Ethnic Disparities in Health-Related Quality of Life among Cancer Survivors Considering both Individual and Environmental Level Risk Factors, June, 2018 and June, 2019.

1U54MD012505-01(Trapido-PI; Miele, MPI), 3/21/2018-2/29/2022, NIMHD, 6,909,204, Louisiana Minority Health and Precision Prevention (LAMP) Center of Excellence.

Co-I, R01 PA-17-021, Precision Prevention of Disparities in Metabolic Dysfunction Outcomes (PI Scribner). Submitted in October, 2017.

PI, R21CA221928, 12/01/2017-11/30/2019, NIH, 401,500, Exploring Racial/Ethnic Disparities in Health-Related Quality of Life among Cancer Survivors Considering both Individual and Environmental Level Risk Factors. Submitted in February 2017.

PI, 1R21DK114669-01, 07/01/2017-06/30/2019, NIH, 401,500, Exploring Racial/Ethnic Disparities in Obesity and Related Chronic Diseases through Multilevel Mediation Analysis. Submitted in October 2016.

PI, R21CA215862, 4/01/2017-3/31/2019, NIH, 401,500, Exploring Racial/Ethnic Disparities in Health-Related Quality of Life among Cancer Survivors with a Novel Multilevel Mediation Analysis Method. Submitted in June 2016.

Biostatistician, R21: eDNA Secretion and eDNA-Cell Interactions in Biofilm Formation (PI Wen). 04/1/2016 - 03/31/2018.

Co-Investigator, National Board of Medical Examiners Edward J. Stemmler, MD, Medical Education Research Fund Development of the Quick Teamwork Assessment Scale (Q-TAS): a Fast, Easy to Use Instrument to Assist Healthcare Teams in Debriefing Teamwork (PI Paige, 150,000.00).

Co-Investigator, Agency for Healthcare Research and Quality PA-14-004-R18: Teamwork Expertise Assessment Measurement with Objective Real time Kinetics (TEAMWORK, PI paige, 750,000.00).

Co-Investigator, R01AI116025-01 (PI Noverr),09/01/2014 - 08/31/2019, NIH/NIAID, 250,000, Host and microbial factors promoting synergistic mortality during polymicrobial intra-abdominal infections with Candida albicans and Staphylococcus aureus.

PI, NSF EPSCoR Pfund, Mediation Analysis to Explore Racial Disparities in Breast Cancer Survival, 01/01/14 - 12/31/14.

PI, PAR-12-144 NCI, Mediation Analysis to Explore Racial Disparities in Breast Cancer Survival, 09/01/13 - 08/31/15, 1.82 calendar.

PI, NSF EPSCoR Pfund: Model Guided Adaptive Design and Analysis in Computer Experiment. 2/1/2012-1/31/2013.

Co-Investigator, NIH: Geographic and Contextual Influences on Energy Balance-Related Health Behaviors (R21). 2011.

Co-Investigator, RWJF: Examining the impact of environment and policy on sugar-sweetened beverages consumption in US adolescents. 2011.

PI, Analysis of Changes in Stage Distributions between 2003 and 2004 Cancer Cases and Associated Factors. 2010.

CO-PI in Biostatistics core, RPCI Prostate Cancer SPORE (PI Mohler). 2010.

Co-Investigator, Resource Development for High Dimensional Biomedical Data with Large Bandwidth Networking, Visualization and Data Fusion to Facilitate Medical Diagnosis and Decision Making (PI Hilary), LSUHSC-NO.

Selected Presentations

Statistical Methods and Applications

Yu, Q., Zou, Y., Xi, Y., "Investigate Interactive Roles of Environmental, Behavioral and Genetic Factors on Racial Disparities." 2023 Joint Statistics Meetings, Toronto, Canada, August 5 - 10, 2023.

Li, B. and **Yu, Q.**, "Web-based Software on Multilevel Mediation Analysis." 2023 Joint Statistics Meetings, Toronto, Canada, August 5 - 10, 2023.

Yu, Q., Cao, W., Mercante, D., Wu, X., Li, B., "Bayesian Mediation Analysis for Time-to-Event Outcome – Investigating Racial Disparity in Breast Cancer Survival." NAACCR Annual Conference 2023, New Orleans, Louisiana, June 20-22, 2023.

Wu, X., **Yu, Q.**, Yi, Y., Maniscalco, LS, Hsieh, M., Chen, V., Ochoa, A., "Effect of Chronic Underlying Health Conditions on Racial Difference in COVID-19 Hospitalization among Cancer Patients." NAACCR Annual Conference 2023, New Orleans, Louisiana, June 20-22, 2023.

Yu, Q., Zou, Y., Xi, Y., "Investigate Feasibility of Using AoU to Discover Interactive Roles of Environmental, Behavioral and Genetic Factors on Racial Disparities in Breast Cancer Outcomes." 2023 All of Us Researchers Convention, Virtual, March 29 - 31, 2023.

Zhang, L., Okon, M., Williams, J., Truong, K., **Yu, Q.**, Griffin, S., "Characteristics of Lung Cancer Screening Eligible Population in the U.S and Prediction of the Eligibility with Simplified Criteria." ASPO 2023 Annual Conference, San Diego, California, March 12-14, 2023.

Cao, W., **Yu, Q.**, "Bayesian Mediation Analysis Methods to Explore Racial Disparities in the diagnostic age of breast cancer." ISBA World Meeting, Montreal, Canada, June 26-July, 1, 2022.

Yu, Q., "Multilevel Mediation Analysis on Time-to-Event Outcomes: Exploring Racial/Ethnic Disparities in Breast Cancer Survival in California." NAACCR Summer Forum, June 14-16, 2022.

Yu, Q., "Multivariate Multiple Mediation Analysis – With an Application to Explore Racial and Ethnic Disparities in Obesity Using NHANES Data." Invited talk at the College of Health Solution, Arizona State University, Phoenix AZ, February 7, 2022.

Yu, Q., "Adaptive Sampling for Bayesian Variable Selection." Joint Statistical Meetings, Virtual, August 5, 2020.

Yu, Q., "A Bayesian Sequential Design with Adaptive Randomization." Invited talk at the Bayesian Causal Inference Workshop, Columbus, Ohio, June 3rd, 2019.

Yu, Q., "Multivariate Multiple Mediation Analysis – With an Application to Explore Racial and Ethnic Disparities in Obesity Using NHANES Data." Invited

talk at the Biostatistics Center, George Washington University, Washington DC, February 1, 2019.

Yu, Q., "Regularized Multiple Mediation Analysis for High-Dimensional Data Sets." Invited talk at the Department of Statistics, the Ohio State University, Columbus, OH, January 19, 2019.

Yu, Q., Zhang, L., Hsieh, M., Wu, X., Scribner, R., Li, B., "Regularized Multiple Mediation Analysis for Big Data Set – With an Application to Explore Racial Disparity in Breast Cancer Survival." 11th AACR Conference on The Science of Cancer Health Disparities, New Orleans, LA, November 2-5, 2018.

Joint Statistical Meetings, Vancouvar, Canada, July 28th-August 3, 2018

> **Yu, Q.**, Zhu, L., and Li, B., "Multivariate Mediation Analysis with a Multi-Categorical Exposure Variable: An Application to Explore Racial and Ethnic Disparities in Obesity."

> Zhu, L. and **Yu, Q.**, "A Bayesian Sequential Design for Clinical Trials with Time-To-Event Outcomes."

Yu, Q., "A Bayesian Sequential Design with Adaptive Randomization for Two-sided Hypothesis Tests," Invited Talk at the PSI (Statisticians in the Pharmaceutical Industry) Virtual Journal Club, July, 2018.

Yu, Q., "Mediation Analysis with Multiple Factors – With an Application to Explore Racial Disparity in Obesity Using NHANES Data," Invited Talk at the Bouve College of Health Sciences, Northeastern University, March, 2018.

Yu, Q., Zhu, L., and Zhu, H., "A Bayesian Sequential Design with Adaptive Randomization for Two-sided Hypothesis Tests," Joint Statistics Meetings, Baltimore, MA, July 29 - August 3, 2017.

Li, B. and **Yu, Q.**, "Ensemble of Regression Trees," Joint Statistics Meetings, Baltimore, MA, July 29 - August 3, 2017.

Yu, Q., Wu, X., Hsieh, M., Li, B., and Scribner, R.A., "Explore Racial Disparities in Breast Cancer Survival Using Nonlinear Mediation Analysis," WNAR 2017 meeting, Santa Fe, NM, June 25-28, 2017.

Yu, Q., Scribner, R.A., Leonardi, C., Zhang, L., Park, C., Chen, L., and Simonsen, N.R., "Mediation Analysis with Multiple Factors – With an Application to Explore Racial Disparity in Obesity Using NHANES Data," WNAR 2017 meeting, Santa Fe, NM, June 25-28, 2017.

Yu, Q., Scribner, R.A., Wu, X., and Hsieh, M., "Mediation Analysis to Explore Racial Disparities in Breast Cancer Survival Using CDC Special Studies," 10th Health Disparities Conference, New Orleans, March 16-18, 2017.

Yu, Q., Leonardi, C., Simonsen, N.R., Park, C., Chen, L., and Scribner, R.A., "Exploring Racial Disparity in Obesity: A Mediation Analysis," MeTRC conference on Addressing Health Disparities: The Role of Translational Research, Nashville, TN, November 10-11, 2016.

Yu, Q., "Mediation Analysis with Multilevel Additive Models," 2016 Joint Statistics Meetings, Chicago, IL, Aug. 2016.

Li, B., **Yu, Q.**, "A Nonparametric Test of Independence Between Two Variables," 2016 Joint Statistics Meetings, Chicago, IL, Aug. 2016.

Kaelen, M., **Yu, Q.**, Wu, XC, Jensen, R., "General Multiple Mediation Analysis to Examine Ethnic Differences in Anxiety and Depression in Cancer Survivors Using the MY-Health Survey," SPH Honor Day Presentation, New Orleans, LA, April 15th, 2016; ASA LA Chapter meeting, Baton Rouge, LA, April 22nd, 2016.

Gao, R., Williams, D., Wu, XC, **Yu, Q.**, "Exploring the Racial Disparity in Health-related Quality of Life among Young Breast Cancer Survivors in Louisiana," SPH Honor Day Presentation, New Orleans, LA, April 15th, 2016; ASA LA Chapter meeting, Baton Rouge, LA, April 22nd, 2016.

Hsieh, M., **Yu, Q.**, Lefante, J., "Multiple Mediation Analysis with Survival Data: An Application to Analyze Racial Disparity in Stage III Colon Cancer Survival." Presented at the NAACCR 2015 Annual Conference, June 13-19, 2015, Westin Charlotte.

Yu, Q., "Multilevel Mediation Analysis-with an Application to Explore Racial Disparity in Physical Activity and Obesity," 2014 Joint Statistics Meetings, Boston, MA, Aug. 2014.

Yu, Q., Li, B., "Bayesian Clustered Lasso," Joint Statistics Meetings, Montreal, Canada, Aug. 2013.

Yu, Q., Zhu, H., and Wu, X., "Weighting Method to Handle Missing Values in Estimating Tumor Stage Distributions in Population-Based Cancer Registration," NAACCR Annual Meeting 2013, Austin, Texas, Jun. 2013.

Fan, Y., **Yu, Q.**, Wu, X., and Hsieh, MC, "Data Quality Evaluation Using MART Guided Generalized Linear Mixed Model - With Application to Evaluate the SEER Cancer Staging Data," Joint Statistics Meetings, San Diego, CA, Aug. 2012.

Yu, Q., Fan, Y., and Wu, X. "General Multiple Mediation Analysis-with application to explore the racial disparity in breast cancer survival," NAACCR Anual Meeting 2012, Portland, Oregon, Jun. 2012.

Fan, Y., **Yu, Q.**, Wu, X., and Hsieh, MC, "Data Quality Control through Nonlinear Association Analysis of Unknown Staged Cancer Cases," NAACCR Anual Meeting 2012, Portland, Oregon, Jun. 2012.

Yu, Q., Wu, XC, Hsieh, MC, Andrews, PA, Wohler, B., Huang, B., Qiao, B., Jemal, A., and Ajani, U., "Cancer Data Quality Control by Proportion of Unknown Stage," NAACCR 2011 Annual conference, Louisville, Kentucky, June 2011.

Xu, Y., **Yu, Q.**, Scribner,R., Theall, K., Scribner, S., and Simonsen, N., "Multilevel Spatiotemporal Dual Changepoint Models for Evaluating the Effect of City Policy Targeting the Proliferation of Alcohol Outlets to Address Assaultive Violence," GEOMED 2011, Victoria, Canada, Oct. 2011.

Yu, Q., Li, B., Fang, Z., and Peng, L., "Model Guided Adaptive Design and Analysis in Computer Experiment," invited talk at Department of Electrical Engineering seminar, University of New Orleans, Oct. 2011.

Yu, Q., Li, B., Fang, Z., and Peng, L., "An Adaptive Sampling Scheme Guided by BART - With an Application to Predict Processor Performance," *McMski III conference*, Park City, UT, Jan. 2011.

Yu, Q., Li, B. and Scribner, R., "Hierarchical Additive Modeling of Nonlinear Association with Spatial Correlations - An Application to related alcohol outlet destruction and changes in neighborhood rates of assaultive violence," *MCMski III*, Park City, UT, Jan. 2011.

Yu, Q., Li, B., Fang, Z., and Peng, L., "An Adaptive Sampling Scheme Guided by BART - With an Application to Predict Processor Performance," Biostatistics Seminar, New Orleans, LA, Feb. 2010.

Yu, Q., "AdaBoost from the Perspective of Importance Sampling," *Joint Statistical Meetings*, Washington D.C., Aug. 2009.

Yu, Q., Li, B. and Scribner, R., "Hierarchical Additive Modeling of Nonlinear Association with Spatial Correlations - An Application to related alcohol outlet destruction and changes in neighborhood rates of assaultive violence," *ENAR*, San Antonio, TX, Mar. 2009.

Yu, Q., Li, B. and Scribner, R., "Hierarchical Additive Modeling of Nonlinear Association with Spatial Correlations - An Application to related alcohol outlet destruction and changes in neighborhood rates of assaultive violence," *Biostats Seminar*, New Orleans, LA, Feb. 2009.

Yu, Q., "Adaptive Experimental Design," *Prostate Cancer Group Meetings*, New Orleans, Sep. 2008.

Yu, Q., Li, B. and Scribner, R., "Multilevel Spatiotemporal Dual Changepoint Models for Relating Alcohol Outlet Destruction and Changes in Neighborhood Rates of Assaultive Violence," *24th Annual Louisiana Remote Sensing & GIS Workshop*, New Orleans, Apr. 2008.

Yu, Q., Li, B. and Scribner, R., "Multilevel Spatiotemporal Dual Changepoint Models for Relating Alcohol Outlet Destruction and Changes in Neighborhood Rates of Assaultive Violence," *Bayesian Biostatistics Conference*, MD Anderson Cancer Center, Jan. 2008.

Yu, Q., MacEachern, S.N., and Peruggia, M., "Bayesian Synthesis," *2008 Winter Bayesian Workshop*, University of Florida, Jan. 2008.

"Feature Extraction for Classification of Functional Data," *The Joint Statistical Meetings*, Salt Lake City, Aug. 2007.

Yu, Q., MacEachern, S.N., and Peruggia, M., "Bayesian Synthesis," *Tenth Meeting of New Researchers in Statistics and Probability*, Salt Lake City, Jul. 2007.

Yu, Q., Scribner, R., Carlin, B., Theall, K., Simonsen, N., Ghosh-Dastidar, B., Cohen, D., Mason, K., "Development of a Bayesian Spatio-Temporal Model to Assess Trends in Assaultive Violence at the Census Tract Level," *30th Annual Scientific Meeting of the Research Society on Alcoholism*, Chicago, Jul. 2007.

Li, B. and **Yu, Q.**, "Feature Extraction for Functional Data in Classification," *Fourth Annual MidSouth Conference on Computational Biology and Bioinformatics*, New Orleans, Feb. 2007.

Yu, Q., "What People Do As Biostatisticians," *Louisiana State University Mathematics Club*, Baton Rouge, Nov. 2006.

Yu, Q., Stasny, E. A. and Li, B., "Bayesian Models to Adjust for Response Bias in Survey Data: An Example in Estimating Rape and Domestic Violence from

the NCVS," *Louisiana State University Health Science Center Biostatistics Seminar*, New Orleans, Oct. 2006.

Yu, Q., MacEachern, S.N., and Peruggia, M., "Bayesian Synthesis," *The Joint Statistical Meetings*, Seattle, Aug. 2006.

Yu, Q., MacEachern, S.N., and Peruggia, M., "Bayesian Synthesis," Invited Talk at *MD Anderson Cancer Center*, Huston Mar. 2006.

Yu, Q., MacEachern, S.N., and Peruggia, M., "Data-Splitting Models for O3 Data," *The Eighth Workshop for Case Studies in Bayesian Statistics*, Pittsburg, Sep. 2005.

Yu, Q., Stasny, E. A. and Li, B., "Bayesian Models to Adjust for Response Bias in Survey Data: An Example in Estimating Rape and Domestic Violence from the NCVS," *The Joint Statistical Meetings*, Minneapolis, Aug. 2005.

Yu, Q., MacEachern, S.N., and Peruggia, M., "A Bayesian Case Study on Kentucky Derby Data," *Seminars in Quantitative Studies in Consumer Behavior Study Group*, Columbus, Apr. 2005.

Collaborations

"T2IPING (Team Training for Inter-Professional Insight, Networking, and Guidance) Point: Integrating a High Fidelity, Simulation-based Inter-Professional Team Training Program into a Health Sciences Center," 2019 Australasian Simulation Congress, Plenary Presentation, Gold Coast, Australia, September 2-5, 2019.

"Racial difference in the risk of secondary bladder cancer following radiation therapy among prostate cancer patients," AACR Annual Meeting 2019, Atlanta, Georgia, March 29-April 3.

"Attitude Adjustment? Impact of Simulation-based, High-fidelity Inter-Professional Team Training on Senior Medical Students' Short-Term Teamwork Attitudes," 2019 Annual ACS Surgical Simulation Summit: An International Multi-Professional Meeting, Chicago, IL, March 15-16, 2019.

11th AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved, Nov. 2 -5, 2018.

> Social Determinants of Health Disparities in Triple Negative Breast Cancer in Louisiana.
>
> Exploring social determinants of cancer outcomes using multilevel spatial analysis.

Zhang, L., Hsieh, MC, Petkov, V., **Yu, Q.**, Wu, X., "Trend of utilization of Oncotype DX testing among female hormone receptor positive breast cancer patients in 17 SEER registries, 2004-2015," 2018 San Antonio Breast Cancer Symposium, December 4-8, 2018.

Zhang, L., Hsieh, MC, Petkov, V., Wu, X., **Yu, Q.**, "Utilization and survival benefit of radiation therapy among hormone receptor positive breast cancer patients with recurrence score from Oncotype DX testing," 2018 San Antonio Breast Cancer Symposium, December 4-8, 2018.

Kao, Y, Celestin, MD, Walker, CD, Couk, J, **Yu, Q.**, Moody-Thomas, S., and Tseng, TS, "Effects of smoking cessation on HbA1c in African-American diabetic smokers," APHA 2018, San Diego, Nov. 10-14, 2018.

Kao, Y, Celestin, MD, Walker, CD, Couk, J,, **Yu, Q.**, Moody-Thomas, S., and Tseng, TS, "Association between Smoking Relapse and Diabetes-Related Emergency Department Visit among Older Patients with Type 2 Diabetes," APHA 2018, San Diego, Nov. 10-14, 2018.

Celestin, MD, Moody-Thomas, S., **Yu, Q.**, Tseng, TS, Durapau, D., Wynn, K., Guillory, D., "Reducing disparities in quitline utilization through group desensitization counseling in a rural public hospital," MeTRC conference on Addressing Health Disparities: The Role of Translational Research, Nashville, TN, November 10-11, 2016.

FERGUSON, TF, Danos, DM, Simonsen, NR, Leonardi, C., **Yu, Q.**, Wu, X., Scribner, RA, "Concentrated Disadvantage and Cancer Incidence in Louisiana," MeTRC conference on Addressing Health Disparities: The Role of Translational Research, Nashville, TN, November 10-11, 2016.

DANOS,DM, Ferguson, TF, Simonsen, NR, Leonardi, C., **Yu, Q.**, Wu, X., Scribner, RA, "Implication of Neighborhood Disadvantage on the Incidence of Colorectal Cancer in Louisiana," MeTRC conference on Addressing Health Disparities: The Role of Translational Research, Nashville, TN, November 10-11, 2016.

Paige, J., Garbee, D., Detiege, P., Kiselov, V., Rusnak, V., **Yu, Q.**, Danna, D., "Sim Games: Incorporating Simulation into the Resident Selection Process," Workshop Session of the ASE 2016 Annual Meeting, Boston, MA, April 12-14, 2016.

Paige, J., Garbee, D., Detiege, P., Kiselov, V., Rusnak, V., **Yu, Q.**, Danna, D., "Team Training for Emergency Room Trauma Transfers (T2ERT2)," LSUHSC Academy for the Advancement of Educational Scholarship Day, New Orleans, LA, Oct. 2015.

Xu, Y., Leonadi, C., Simonson, N., **Yu, Q.**, Zhang, L., Tseng, TS, Scribner, R., "Acculturation and Excessive Alcohol Consumption among Mexican American Current Drinkers: Findings from the National Health and Nutrition Survey 2001-2012." 2015 APHA Annual Meeting, Oct. 31-Nov. 4, 2015, Chicago.

Zhang, L., Ferguson, TF, Wu, XC, Hsieh, M., Fontham, E., Loch, MM, **Yu, Q.**, and Chen, V., "Frequency and predictors of insufficient chemotherapy use among stage I-III breast cancer patients by molecular subtype." 2015 Breast Cancer Symposium, Sep 25-27, 2015, Seattle.

Buczak, DS, Himel, VT, CiCarlo, VD, **Yu, Q.**, and Sabey, KA, "Accuracy of Canal Morphology Identification Using Conventional Imaging and Cone Beam Volumetric Tomography." Presented at the AAE 2015, May 07, 2015, Seattle. Abstract published on March 2015 Journal of Endodontics.

Sineshaw, HM, Hsieh, M., Li, X., Wohler-Torres, BA, Qiao, B., Huang, B., Jemal, A., Schymura, MJ, Sherman, R., Wu, M., **Yu, Q.**, Wu, X., "Evaluation of Completeness of Lymph Node Count in the North American Association of Central Cancer Registries for Selected Cancers." Presented at the NAACCR 2015 Annual Conference, June 13-19, 2015, Westin Charlotte.

Tseng, TS, Xiao, K., **Yu, Q.**, Celestin, MD, Horswell, R., Jones, K., Yi, Y., Moody-Thomas, S. "Using Geographic Information System (GIS) Technology to Access Accessibility of Smoking Cessation Class Attendance for Patients

in Louisiana Public Hospitals." American Public Health Association 142nd Annual Meeting and Exposition, November 2014, New Orleans, LA. Tuesday, November 18, 2014: 12:30 PM - 2:00 PM.

Wu, XC, Zhou, MJ, Chen, VW, Phillips, SE, Barocas, DA, Smith, LM, **Yu, Q.**, Penson, DF, "Sociodemographic Disparities in Patient-Reported Pre- and Post-Treatment Sexual Functions for Localized Prostate Cancer." Presented at the NAACCR 2014 Annual Conference, June 23-25, 2014, Ottawa, Canada.

Tseng, T.S., **Yu, Q.**, Jones, K., Yi, Y., Celestin, M.D., Horswell, R., Moody-Thomas, S.,": Smoking Cessation Class Attendance and Accessibility for Patients in Louisiana Public Hospitals,"LCRC Scientific Retreat, New Orleans, March 2014.

Paige, J., Garbee, D., **Yu, Q.**, Rusnak, V., and DiCarlo, R.,"Improving Team Training Through TTIPS (Team Training of Inter-Professional Students)," ASGBI 2014 International Surgical Congress, Harrogate, UK, 2014.

Paige, J., Garbee, DD, **Yu, Q.**, Rusnak, V., "Pilot of Proficiency-based Suturing Curriculum for Surgical Clerkship Students," LSUHSC Academy for the Advancement of Educational Scholarship Day, New Orleans, LA, Oct. 2013.

Wu, XC, Zhou, MJ, Chen, VW, Phillips, SE, Barocas, DA, Smith, LM, **Yu, Q.**, Penson, DF, "Sociodemographic Disparities in Patient-Reported Pre- and Post-Treatment Sexual Functions for Localized Prostate Cancer," NAACCR Annual Conference, Ottawa, Ontario, Canada, 2014.

Tseng, T.S., Xiao, K., **Yu, Q.**, Jones, K., Yi, Y., Celestin, M.D., Horswell, R., Moody-Thomas, S.,"Do distances predict attendance of smoking cessation classes among those patients who were scheduled to take classes in Louisiana public hospitals?"APHA Annual Meeting, Boston, 2013.

Fallahi, S., Ritwik, P., **Yu, Q.**, "Cellulitis of odontogenic origin in the pediatric ER," International Association of Pediatric Dentistry Annual conference 2013.

Paige, J., **Yu, Q.**, Marr, A., Stuke, L., and Hunt, J., "Thinking it Through: Correlation of Mental Rehearsal Attitudinal Gains with Performance Parameters on Two Separate Laparoscopic Cholecystectomy Trainers," 6th Annual ACS AEI Consortium Meeting, Chicago, March 15-16, 2013.

Paige, J., Garbee, D., Rusnak, V., Dicarlo, R., Marr, A., and **Yu, Q.**, Teamwork training of inter-professional undergraduate students, LSUHSC Educational Scholarship Day Presentaion, 2012, New Orleans, Oct. 2012.

Hsieh, M., Wu, X., Wohler, B., Andrews, P., **Yu, Q.**, Qiao, B., Jamison, M., Jemal, A., Huang, B., Ajani, U., Schymura, M., "Evaluating unknown stage by collaborative staging components and surgery status for colon cancer – NAACCR data assessment workgroup," NAACCR Anual Meeting 2012, Portland, Oregon, Jun. 2012.

Wohler, B., Hsieh, M., Wu, X., Jamison, M., Qiao, B., Huang, B., Andrews, P., **Yu, Q.**, Jemal, A., Ajani, U., "Template assessing data quality for CINA Deluxe, NAACCR Anual Meeting 2012," Portland, Oregon, Jun. 2012.

Cherry, KE, Golob, E., Elliott, EM, Brown, JS, **Yu, Q.**, Volaufova, J., and Jazwinski, SM, "Strategic Encoding and Retrieval Processes in Verbal Recall among Oldest-Old Adults," The Gerontological Society of America's 64th Annual Scientific Meeting, Boston, MA, November, 2011.

Bonanno, L., Paige, J., Garbee, D., Rusnak, V., Barrier, K., Kozmenko, L., **Yu, Q.**, Cefalu, J., and Nelson, K.,"Effectiveness of Teamwork and Communication in a Critical Care Code Scenario Using Interdisciplinary High-Fidelity Human Patient Simulation with Students from Four Professional Programs," The 6th International Conference on Interdisciplinary Social Sciences, July, 2011.

Huang, B., Wohler, B., Wu, XC, **Yu, Q.**, Qiao, B., Andrews, PA, Jemal, A., Hsieh, MC, and Shelton, B., "Benign/Borderline Intracranial and Central Nervous System Tumors in the CINA Deluxe Data," NAACCR 2011 Annual conference, Louisville, Kentucky, June 2011.

Wohler, B., Qiao, B., Schymura M., Wu, XC, Andrews, PA, Hsieh, MC, Huang, B., **Yu, Q.**, Ajani, U., and Jemal, A., "Data quality of surgery and radiation for four major cancer sites in CINA Deluxe," NAACCR 2011 Annual conference, Louisville, Kentucky, June 2011.

Wohler, B., Wu, XC, Andrews, PA, Huang, B., Qiao, B., Hsieh, MC, Ajani, U., Jemal, A., and **Yu, Q.**, "Data quality of Tumor Size and Depth for Breast cancer and Melanoma in CINA Deluxe," NAACCR 2011 Annual conference, Louisville, Kentucky, June 2011.

Paige, J., Garbee, D., Kozmenko, V., **Yu, Q.**, Kozmenko, L., Bonanno, L., and Swartz, W., "Behavioral Impact of Inter-Professional Student Operating Room Team Training using High Fidelity Simulation," Annual ACS Consortium Meeting, Chicago, April 2011.

Wu, XC, **Yu, Q.**, Andrews, PA, Ranganath, P., Qiao, B., Ajani, U., Wohler B. and Zhang, Z., "Comparisons of Directly Coded SEER Summary Stage 2000 and Collaborative Staging Derived SEER Summary Stage 2000," NAACCR 2010 Annual Conference, Quebec, Canada, June 2010.

Delgado, B., Welsh D., Jazwinski D., and **Yu, Q.**, "Defining Impairment In The Elderly Using The Forced Expiratory Volume In 1 Second/Forced Vital Capacity Ratio," SAFMR/SSCI Trainee Research Award Winner, 2010 Southern Regional Meeting, New Orleans, LA, Feb 2010.

Wu, XC, Chen, VW, Andrews, PA, **Yu, Q.**, "Effect of Changes in use of Screening Modalities on Subsite-specific Stage of Colorectal Cancers in the United States," *Annual Meeting of International Association of Cancer Registries (IACR)*, New Orleans, June, 2009.

Elliott, E. M., Cherry, K. E., Silva, J. L., Smitherman, E. M., Jazwinski, S. M., Volaufova, J., & **Yu, Q.**, "Working memory in the oldest-old: Evidence from output serial position curves," Poster presented at the *117th Annual American Psychological Association Convention*, Toronto, Aug 2009.

Delgado research project (May, 2009).

Honors and Awards

The NAACCR Board of Director's Award for services and contributions as a NAACCR committee member, 2018-2019.

Top downloaded article by Statistical Analysis and Data Mining: A Nonparametric Test of Independence between Two Variables, 2017-2018.

SimHealth best paper award: Moving on up: team training form emergency room trauma transfers, SimHealth 2017.

Travel Award to present at the MeTRC conference on Addressing Health Disparities: The Role of Translational Research, 2016

2014-2015 Educational Enhancement Grand Award, LSUHSC Academy for the Advancement of Educational Scholarship, 2015.

2013-2014 Educational Enhancement Grand Award, LSUHSC Academy for the Advancement of Educational Scholarship, 2014.

2012-2013 Educational Enhancement Grand Award, LSUHSC Academy for the Advancement of Educational Scholarship, 2013.

Best paper of 2012, Journal of Registry Management, the official journal of the National Cancer Registrars Association, 2012.

2011-2012 Educational Enhancement Grand Award, LSUHSC Academy for the advancement of educational scholarship, 2012.

Travel Award to attend the ISBA 2012 World Meeting, 2012.

Travel Award to attend and present at the 2011 McMski III conference, 2011.

Travel Award to attend the 2008 ENAR Workshop for Junior Researchers, 2008.

Travel Award to attend the 2008 Bayesian Biostatistics Conference and give a presentation, 2008.

NSF supported Travel Award to attend the 2008 Winter Bayesian Workshop and give a presentation, 2008.

Travel Award to attend the 10th Meeting of New Researchers in Statistics and Probabilities and give a presentation, 2007.

Winner, 2006 Student Paper Competition, ASA Section on Bayesian Statistical Science.

Winner, 2005 Student Paper Competition, ASA Social Statistics, Government Statistics and Survey Research Methods Sections.

Graduate Summer Research Fellowship, Center for Survey Research, The Ohio State University, 2004.

Travel Award for 2004 Joint Statistical Meetings, ASA Survey Research Methods Section.

University Fellowship, The Ohio State University, Jan.-Dec. 2002.

Professional Services

Reviewer, 2023 June, SEP special study section.

Reviewer, 2023 May, P50 Specialized Programs of Research Excellence (SPORE).

Full member, Population Sciences Program at the Louisiana Cancer Research Center (LCRC), Feb. 2023-date.

Member, the SPH SPHERE Scholarship Selection Committee (SSSC), Dec. 2022-date.

Reviewer, 2022 October, the Kidney, Endocrine, and Digestive Disorders (KEDD) study section.

Associate Editor, Frontiers in Statistical Genetics and Methodology (since May, 2022).

Reviewer, 2022 July, the Infectious Diseases, Reproductive Health, Asthma and Pulmonary Conditions Study Section (IRAP).

Reviewer, 2022 March, the Population Sciences and Epidemiology (PSE) groups.

Reviewer, 2021 November, the Infectious Diseases, Reproductive Health, Asthma and Pulmonary Conditions Study Section (IRAP).

Member, Search Advisory Committee for Epidemiology Director, SPH, LSUHSC. Fall 2021.

Member, Senior Program Faculty APT Committee, Fall 2021.

Research Committee Member, School of Graduate Studies, LSUHSC, July 2021 - present.

Committee Member, American Statistics Association SSGG Member Engagement Committee (MEC), March 2021 - present. Mentor for the Student Webinar sub-committee, member of the Liaison subcommittee, and chair for the short-course committee.

Reviewer, 2021 March, SBIR Topic 424: Digital Tools to Improve Health Outcomes in Pediatric Cancer Survivors

Reviewer, 2021 February, KNOD (2021/05): Kidney, Nutrition, Obesity, and Diabetes Study Section Meeting

Reviewer for Medical Research Council grant proposals, 2021

Reviewer, 2020 November, the panel on tobacco use and health ZRG1 PSE-G(55).

Mentor for Junior Researchers, 2020 JSM.

Representative, School of Public Health Administrative Council Meeting, LSUHSC, 2020-2022.

President, School of Public Health Faculty Assembly, LSUHSC, 2020-2022.

Reviewer, 2020 July, Special Emphasis Panel/Scientific Review Group 2020/10 ZRG1 F18-Z (20) L meeting.

Reviewer, 2020 March, Special Emphasis Panel/Scientific Review Group 2020/05 ZRG1 F18-Z (20) L meeting.

Reviewer, 2019 October, Special Emphasis Panel/Scientific Review Group 2020/01 ZRG1 F18-Z (20) L meeting.

Editorial Board Member, Open Journal of Bioinformatics and Biostatistics Biography, 2018-present.

President elect, School of Public Health Faculty assembly, LSUHSC, 2019-2020.

Executive board member, School of Public Health Faculty assembly, LSUHSC, 2019-2022.

Bylaws, Nominations, and Elections Committee, School of Public Health Faculty assembly, LSUHSC, 2019-2020.

Reviewer, 2019 June, Cancer, Heart, and Sleep Epidemiology Panel B (CHSB) study section meeting.

Reviewer, 2019 June, Special Emphasis Panel/Scientific Review Group 2019/10 ZRG1 F18-Z (20) L meeting.

Member, NCI Work Group on Designing Sub-County Zones for Cancer Surveillance Reporting, April 2019-2020.

Research Committee, School of Public Health Louisiana State University Health Sciences Center, September 2018-present.

Reviewer, 2018 October, Cancer, Heart, and Sleep Epidemiology Panel A (CHSA) study section meeting.

Volunteer, 2018 Joint Statistical Meetings Statistical Education Booth.

Reviewer, 2018 June, Cancer, Heart, and Sleep Epidemiology Panel A (CHSA) study section meeting.

Faculty Search Committee, Biostatistics Program, LSUHSC, 2014, 2015, and 2017.

Organizing Committee, Public Health and Nutrition, March 22-24, 2017, Rome, Italy.

Culminating Experience Committee, School of Public Health, LSUHSC, August 2015 - 2017.

Epidemiology qualify exam committee, LSUHSC, 2015, 2018.

Write and grade qualify exam for Epidemiology PhD Program, 2015, 2018

Committee Member, 2015 ASA SBSS Student Paper Award Committee, November 2014-2015.

Graduate Coordinator, Biostatistics Program, LSUHSC, 2015-2016.

Judge, Research Day, LSUHSC, October 2014.

Editor, Biometrics & Biostatistics International Journal, Aug 2014-2018.

Grievance Committee, School of Public Health Louisiana State University Health Sciences Center, June 2014- June 2018.

Planner Committee, LSUHSC Academy for the Advancement of Educational Scholarship 2013 Fall Symposium and Educational Scholarship Day Program, 2013-2014.

Appointments, Promotions and Tenure Committee, School of Public Health Louisiana State University Health Sciences Center, 2013-2017.

Planner Committee, LSUHSC Academy for the Advancement of Educational Scholarship 2013 Spring Symposium and Educational Scholarship Day Program, 2012-2013.

Associate Editor, Journal of Applied Statistics and Operations Research, 2012-2018.

Proposal Evaluation Committee, School of Public Health Louisiana State University Health Sciences Center, 2012-2017.

Session Chair, Sections on Bayesian Statistical Science and Statistical Computation, *The Joint Statistical Meetings*, San Diego, CA, Aug. 2012.

Review Editor, Frontiers in Statistical Genetics and Methodology (since November, 2010).

Data Assessment Workgroup, NAACCR Data Use and Research Committee (DURC) (MAR. 2010 - date).

Secretary/Treasurer, Louisiana Chapter American Statistical Association , 2010-2011.

Co-organizer, Louisiana Chapter American Statistical Association Spring Meeting, New Orleans, LA, April 2010.

Delegate, Biostatistics Program, *LSUHSC School of Public Health Faculty Assembly Meeting*, Jan. 2010 - Aug. 2018.

Volunteer, ENAR 2010 Spring Meeting, New Orleans, LA, Mar. 2010.

Session Chair, Section on Bayesian Statistical Science , *The Joint Statistical Meetings*, Washington DC, Aug. 2009.

President, Louisiana Chapter American Statistical Association, 2009-2010.

Co-organizer, Louisiana Chapter American Statistical Association Fall Meeting, New Orleans, LA, Apr. 2010.

Co-organizer, Louisiana Chapter American Statistical Association Fall Meeting, Baton Rouge, LA, Dec. 2009.

Co-organizer, Louisiana Chapter American Statistical Association Spring Meeting, Lafayette, LA, May 2009.

Comparisons of Directly Coded SEER Summary Stage 2000 and Collaborative Staging Derived SEER Summary Stage 2000, NAACCR Data Use and Research Committee (DURC) (Feb. 2008 - 2010).

Host a Bayesian Workshop, School of Public Health Louisiana State University Health Sciences Center, 2008 Summer.

Biostatistics PhD Program Qualify Exam Committee, School of Public Health Louisiana State University Health Sciences Center, 2008-present.

Biostatistics Faculty Search Committee, School of Public Health Louisiana State University Health Sciences Center, 2008, 2014, 2015, 2017, 2018.

Co-organizer, Louisiana Chapter American Statistical Association Fall Meeting, New Orleans, LA, Dec. 2008.

Vice President, Louisiana Chapter American Statistical Association, 2008-2009.

Representative, Louisiana Chapter American Statistical Association, 2008-2010.

Evaluation Committee, School of Public Health Louisiana State University Health Sciences Center, 2007-2010, August 2018-present.

Epidemiology Task Forces Committee, School of Public Health Louisiana State University Health Sciences Center, 2007-2008.

Session Chair, Section on Bayesian Statistical Science , *The Joint Statistical Meetings*, Seattle, Aug. 2006.

Reviewer for Journals

 Optics Letters

Geospatial Health

Journal of Urban Health

Alcohol and Alcoholism

Journal of Environmental and Public Health

Journal of Applied Statistics

Frontiers in Statistical Genetics and Methodology

Spatial and Spatio-temporal Epidemiology

Journal of Royal Statistical Society

Communications in Statistics-Theory and Methods

Statistical Analysis and Data Mining

World Medical & Health Policy

Drug and Alcohol Review

Journal of Multivariate Analysis

Current Biotechnology

ASA SBSS Student Paper Competition

The R Journal

Open Journal of Statistics

PLOS ONE

American Journal of Preventive Medicine

Statistical Methods & Application

BMC Medical Informatics and Decision Making

Obesity

Cancer Medicine

Cancer

Statistics in Medicine

Behavior Research Methods

Biometrical Journal

Computational Statistics and Data Analysis

Pharmaceutical Statistics

Structural Equation Modeling: A Multidisciplinary Journal

Journal of Statistics Software

Quality of Life Research

Cancers

Professional Education

2007 NISS/ASA Writing Workshop

2008 Bayesian Biostatistics Workshop

2008 ENAR Junior Researcher's Workshop

2009 Grant Writing Workshop

2012 Model Uncertainty and Multiplicity Workshop, Santa Cruz, CA

Professional Memberships and Certifications

Louisiana Public Health Association, since March 2023

Active member of the American Association for Cancer Research (AACR), since August 2018

International Biometric Society, since 2016

American Statistical Association, since 2004

Institute of Mathematical Statistics, since 2004

International Society for Bayesian Analysis, since 2005

Certified Public Accountant in China, since 1999

Computer Qualification for Non-Computer-Science Majors (III), since 1997 (Certification from Passing National Examination in China.)

Community Services

New Orleans Chinese Baptist Church Sunday School Teacher, since 2008

Greater New Orleans Chinese School Teacher, since 2016

Stroke and Turn Judge, USA Swimming Organization, since 2017

Chief Judge, USA Swimming Organization, since 2021