Qingzhao Yu

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Education

The Ohio State University, Department of Statistics, 2002 - 2006

Ph.D. in Statistics, August 2006

Dissertation: Bayesian Synthesis

Advisers: Steven MacEachern, Ph.D. and Mario Peruggia, Ph.D.

M.S. in Statistics, March 2004

Wuhan University, China, Business School, 1994 - 2001

M.A. in Management, June 2001

B.A. in Economics, June 1998

Professional Experience

Jul. 2012-Present	Associate Professor (tenured), Biostatistics Program, School of Public Health, LSU Health New Orleans
Nov. 2010-Jun. 2012	Assistant Professor, Biostatistics Program, School of Public Health, LSU Health New Orleans
Sep. 2006-Oct. 2010	Assistant Professor - Research, 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
Jul. 2001-Dec. 2001	Assistant Manager, Bank of Shanghai, Shanghai, China

Teaching

LSU Health Sciences Center

Course Director (Sole Instructor and *Course Developer)

BIOS 6100: Biostatistical Methods I (Fall, 2015)

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

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

BIOS 6300: Statistical Computing (Spring, 2013)

BIOS 6204: Statistical Theory (Fall, 2012; Fall 2017)

BIOS 6310: Sampling Methods (Fall, 2011)

BIOS 6102: Biostatistics II (Spring, 2011)

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

*BIOS 6310: Applied Bayesian Analysis (Summer, 2010; Spring, 2012; Spring, 2015; Spring 2016)

BIOS 6302: Longitudinal Data Analysis (Spring, 2010)

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

BIOS 6222: Biostatistics II (Spring, 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)

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

BIOS 6500: Multivariate Methods Lab (Spring, 2007)

Guest Lecturer

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

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

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

Paige Fisher, 09/2017-present.

Ondrej Blaha, 09/2017-present.

Lin Zhu, "Bayesian Clinical Trials," June 2015-present.

Omar Aldibasi, "Statistical Analysis of Microbiome Data," May 2016-present.

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

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

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

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

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

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

Ondrej Blaha, PhD committee member, 2015-

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

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

Write and grade qualify exam for Epidemiology PhD Program, 2015

Research Interests

- Bayesian Modeling
- Mediation Analysis
- Computational Methods
- Genetic Analysis
- Machine Learning
- Spatial Statistics Analysis
- Survey Research

Peer Reviewed Publications

Statistical Methods and Applications

1. **Yu, Q.**, Zhu, L., and Zhu, H., A Bayesian sequential design with adaptive randomization for two-sided hypothesis tests, *Pharmaceutical Statistics*, accepted.

2. Li, B., and **Yu, Q.**, A Nonparametric Test of Independence Between Two Variables, *Statistical Analysis and Data Mining*, accepted.

3. **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.

4. **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.

5. 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. (* Corresponding author.)

6. Zhu, H., **Yu, Q.***, 2015. A Bayesian Sequential Design Using Alpha Spending Function to Control Type I Error. *Statistical Methods in Medical Research*, Prepublished July 18, 2015, DOI:10.1177/0962280215595058. (* Corresponding author.)

7. **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.

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

9. **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

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

11. 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. (* Corresponding author.)

12. **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.

13. 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. (* Corresponding author.)

14. **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.

15. 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.

16. **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.

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

18. **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.

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

20. 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.

21. **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.

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

23. **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.

24. **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.

Collaborations

25. Liao, S. De, A., Thompson T., Chapman, L., Bitoun, JP, Yao, X., **Yu, Q.**, Ma, F., Wen, Z., 2017. Expression of BrpA in Streptococcus mutans is Regulated by FNR-box Mediated Repression. *Molecular Oral Microbiology*, Epub first on July 26, 2017.

26. Lee, J., Townsend, JA, Thompson, T., De, A., Garitty, T., **Yu, Q.**, Peters, B., Wen, Z., 2017. Analysis of the Cariogenic Potential of Various Almond Milk Beverages Using Streptococcus mutans Biofilm Model In Vitro, Caries Research, accepted.

27. Paige, J., Garbee, DD, **Yu, Q.**, Rusnak, V., TTIPS (Team Training of Inter-Professional Students) For Improving Teamwork, BMJ Simulation & Technology Enhanced Learning, accepted.

28. McMurphy, A., Xu, X., Fournier, S., Sherman, K., Tremmel, C., Cehreli, ZC, **Yu, Q.**, Townsend, J, 2017. Effect of cured vs. uncured adhesive inclusion on the microtensile bond strength of sealants, *Journal of Dentistry for Children*, 84(2), 58-64.

29. Wadhwa, P, **Yu, Q.**, Zhu, H, and Townsend, J, 2017. Dental age difference in children with ADHD, *Journal of Clinical Pediatric Dentistry*, accepted.

30. Hayes, WC, Nuss, H., Tseng, TS, Parada, N., **Yu, Q.**, Celestin, M., Guillory, D., Winn, K., Moody-Thomas, S., 2017. Treatment adherence in smokers with asthma and/or chronic obstructive pulmonary disease, *COPD Research and Practice*, 3:3. DOI 10.1186/s40749-017-0022-0.

31. Leonardi, C., Simonsen, N., **Yu, Q.**, Park, C., and Scribner, R., 2017. Street Connectivity and Obesity Risk: Evidence From Electronic Health Records, *American Journal of Preventive Medicine*, 52(1), Supplement 1, S40-S47.

32. Yuan, X., Tseng, T.S., Zhang, L., **Yu, Q.**, 2016. Does caffeine intake and coffee consumption associate with endometrial cancer among postmenopausal women in America using NHANES 2003–2012? *Translational Cancer Research*, 5, Supplement 5. doi: 10.21037/tcr.2016.10.91.

33. Pender, C., Kiselov, V., **Yu, Q.**, Mooney, J., Greiffenstein, P., Paige J.T., 2016. All for Knots: Evaluating the Effectiveness of a Proficiency-driven, Simulation-based Knot Tying and Suturing Curriculum for Medical Students during their Third Year Surgery Clerkship, *The American Journal of Surgery* 213(2), 362-370, pii: S0002-9610(16)30453-6. doi: 10.1016/j.amjsurg.2016.06.028.

34. Rubin, S., Coy, L., **Yu, Q.**, and Munice, H., 2016. Louisiana and Mississippi family physicians contraception counseling for adolescents with a focus on intrauterine contraception. *Journal of Pediatric and Adolescent Gynecology*, 29(5):458-63.

35. Lestrade, A., Xu, X., **Yu, Q.**, Edwin, K., Armbruster, P., and Ballard, R.W., 2016. Porcelain Surface Conditioning Protocols and Shear Bond Strength of Orthodontic Brackets on the Posterior Dentition, *Australian Orthodontic Journal*, 32(1), 18-22.

36. Block, MS, Scoggin, ZD, **Yu, Q.**, 2015, Assessment of Bone Width for Implants in the Posterior Mandible. *Journal of Oral and Maxillofacial Surgery*, 73(9): 1715-1722. doi:http://dx.doi.org/10.1016/j.joms.2015.03.036.

37. Lally, T., Geist, JR, **Yu, Q.**, Himel, VT, Sabey, K. 2015, Evaluation of Four Commercial Viewing Devices for Radiographic Perceptibility and Working Length Determination. *Journal of Endodontics*, 41(7), 1120-1124. doi:10.1016/j.joen.2015.02.027.

38. Nhan, RTH, Xu, X., **Yu, Q.**, Ballard, R.W., and Armbruster, P., 2015. The effect of topical fluoride varnish on the shear bond strength of orthodontic brackets, *Australian Orthodontic Journal* 31(1) 14-19.

39. Paige, J., **Yu, Q.**, Hunt, J.P., Marr, A., and Stuke, L., 2015. Thinking it Through: Mental Rehearsal and Performance on Two Types of Laparoscopic Cholecystectomy Simulators, *Journal of Surgical Education*, 72(4), 740-748.

40. Caronna, V., Himel, V., **Yu, Q.**, Zhang, J., and Sabey, K., 2014. Comparison of the Surface Hardness among 3 Materials Used in an Experimental Apexification Model under Moist and Dry Environments. *Journal of Endodontics*, 40(7), 986-989.

41. Townsend, J.A., Knoell, P., **Yu, Q.**, Zhang J., Wang, Y., Zhu, H., Beattie, S., Xu, X., 2014. In Vitro Fracture Resistance of Three Commercially Available Zirconia Crowns for Primary Molars. *Pediatric Dentistry*, 36(5),250-254.

42. Paige, J., Garbee, DD, Kozmenko, V., **Yu, Q.**, Kozmenko, L., Yang, T., Bonanno, L., and Swartz, W., 2014. Getting a Head Start: High Fidelity, Simulation-Based Operating Room Team Training of Inter-Professional Students. *Journal of the American College of Surgeons*, 18(1), 140-149.

43. Garbee, D.D., Paige,J.T., Bonanno, L.S., Rusnak,V.V., Barrier, K.M., Kozmenko, L.S., **Yu, Q.**, Cefalu, J.E., and Nelson,T.K., 2013, Effectiveness of teamwork and communication education using an interprofessional high- fidelity human patient simulation critical care code. *Journal of Nursing Education and Practice*, 3(3), 1-12.

44. Hsieh, MC, **Yu, Q.**, Wu, XC, Wohler B., Fan, Y., Qiao, B., Jamiso, M., Ajani, U.A., 2012, Evaluating Factors Associated with Unknown SEER Summary Stage 2000 Derived from Collaborative Stage. *Journal of Registry Management*, 39(3),101-106.

45. Cherry, KE, Golob, E., Elliott, EM, Brown, JS, **Yu, Q.**, Volaufova, J., and Jazwinski, SM, 2011, Strategic Encoding and Retrieval Processes in Verbal Recall Among Oldest-old Adults. *Gerontologist*, 51(2), 128-129.

46. Elliott, EM, Cherry, KE, Silva, JL, Smitherman, EM, Jazwinski, SM, **Yu, Q.**, and Volaufova, J., 2011, Working memory in the oldest-old: Evidence from output serial position curves. *Memory & Cognition*, 39(8), 1423-1434.

47. Wu, X.C., **Yu, Q.**, Andrews, P., Ranganath, P., Qiao, B., Ajani, U., Wohler, B., and Zhang, Z. 2011, Comparisons of Directly Coded SEER Summary Stage 2000 and Collaborative Staging Derived SEER Summary Stage 2000. *Journal of Registry Management*, 37(4), 137-140.

48. Scribner, R., Theall, K., Simonsen, N., Mason, K., and **Yu, Q.** 2009, Misspecification of the Effect of Race in Fixed Effects Models of Health Inequalities. *Social Science & Medicine*, 69, 1584-1591.

Software

49. **Yu, Q.**, January 2015. R package mma: Multiple Mediation Analysis. Available on CRAN at mma.

50. **Yu, Q.** and Li, B., October 2016. R package mlma: Multilevel Mediation Analysis. Available on CRAN at mlma.

Abstract

52. 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.

Papers submitted for publication

1. Beacham, J., Sabey, K., **Yu, Q.**, Himel, V. and Geist J.R., Accuracey of CBCT Image Interpretation by Endodontists and Endodontics Residents.

2. Zhang, L., **Yu, Q.**, Wu, X., Hsieh, M., Loch, MM, chen, V., and Fontham, E., Impact of Chemotherapy Relative Dose Intensity on Cause-Specific and Overall Survival For Stage I-III Luminal A vs Triple-Negative Breast Cancer.

3. **Yu, Q.**, and Li, B., Model-Guided Adaptive Sampling for Bayesian Model Selection.

4. 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. (* Corresponding author.)

5. **Yu, Q.**, Wu, X., Li, B., and Scribner, R., Multiple Mediation Analysis with Survival Outcomes – With an Application to Explore Racial Disparity in Breast Cancer Survival.

6. **Yu, Q.**, Medeiros, KL, Wu, X., and Jensen, R., Explore Ethnic Disparities in Anxiety and Depression Among Cancer Survivors Using Nonlinear Mediation Analysis.

7. Twomley, J., **Yu, Q.**, Wang, Y., Wen, Z., Armbruster, PC, and Ballard, RW, Formulation and Characterization of Antibacterial Orthodontic Adhesive.

8. 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.

9. Paige, J., Garbee, DD, **Yu, Q.**, Rusnak, V., Team Training for Emergency Room Trauma Transfers (T2ERT2), submitted to Annals of Surgery.

10. Reaves, J., **Yu, Q.**, Wen, Z., Himel, V., Favre, T., and Sabey, K., 2016. In Vitro Comparison of Contemporary Endodontic Irrigants Using PIPS Laser Irrigation: Efficacy Against Entercoccus Faecalis Biofilms, submitted to Journal of Endodontics.

11. 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.

12. Paige, J., Garbee, DD, **Yu, Q.**, Rusnak, V., Six in One Hand May Not be a Half Dozen in the Other: Learning Among the Different Professional Students in Simulation-Based OR Team Training, submitted to Journal of Surgical Education.

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

14. 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.

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

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

17. Whitt, P., Smith, D., Armbruster, P., **Yu, Q.**, Ledoux, W., Ballard, R., Canine Eruption in Non-autologous Bone Grafts for Alveolar Clefts.

18. Leithead III J., Garbee, DD, **Yu, Q.**, Rusnak, V., Kiselov, V., Paige, JT, **Yu, Q.**, Rusnak, V., and DiCarlo, R., Six in One Hand May Not be a Half Dozen in the Other: Learning Among the Different Professional Students in Simulation-Based OR Team Training, submitted to The Journal of the American College of Surgeons.

Grants and Contracts

Active

Co-Investigator, NIH R01, High Performance Antimicrobial Fluoride Releasing Dental Materials (PI Xu, $2,465,297), 7/1/2017-6/30/2022.

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). 2/2017-6/2019.

Co-Investigator, NIH R24 Project #1497400249A CBPR Community-Academic Partnership to Address Health Disparities in New Orleans(PI Scribner, $100,000). 1/1/2016-12/31/2017.

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). 7/1/2016-12/31/2017.

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 - 11/30/17.

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-present (up to 15%).

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

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.

Biostatistician, HHSN261201000030: Surveillance, Epidemiology & End Results (SEER) Expa Program (PI Chen & Wu, $1,611,191). 2010-2017.

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

Completed

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 - 08/31/16.

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 ($5000). 082012–11/2013.

PI, NAACCR HHSN261200900015C: Data Quality Control through Nonlinear Association Analysis of Unknown Staged Cancer Cases ($5000). 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 ($10,039). 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.

Pending

PI, R21 PA-15-169, 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.

R21MD012575 (PI Scribner), 03/01/2018-2/29/2020, NIH, $200,000, Social Determinants Role in Explaining Disparities in Hepatocellar Carcinoma. Submitted in May 2017.

PI, R21 PAR-16-255, Exploring Racial/Ethnic Disparities in Health-Related Quality of Life among Cancer Survivors Considering both Individual and Environmental Level Risk Factors, February, 2017.

PI, R15 PA-16-200, Multilevel Mediation Analysis to Explore Racial Disparities in Breast Cancer Recurrence and Survival using CDC Special Studies, February, 2017.

Not Funded Proposal

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.

PI, R21 PA-15-169, 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, R21 PA-13-288, 04/01/2017-03/31/2019, 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., 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

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

- 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

- Organizing Committee, Public Health and Nutrition, March 22-24, 2017, Rome, Italy.
- Culminating Experience Committee, School of Public Health, LSUHSC, August 2015 - present.
- Committee Member, 2015 ASA SBSS Student Paper Award Committee, November 2014-present.
- Graduate Coordinator, Biostatistics Program, LSUHSC, 2015-2016.
- Judge, Research Day, LSUHSC, October 2014.
- Editor, Biometrics & Biostatistics International Journal, Aug 2014-present.
- Grievance Committee, School of Public Health Louisiana State University Health Sciences Center, June 2014-present.

- 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-present.
- 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-present.
- Proposal Evaluation Committee, School of Public Health Louisiana State University Health Sciences Center, 2012-present.
- 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.
- Delegator, Biostatistics Program, *LSUHSC School of Public Health Faculty Assembly Meeting*, Jan. 2010 - date.
- 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, 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, 2008-2015.
- Biostatistics Faculty Search Committee, School of Public Health Louisiana State University Health Sciences Center, 2008, 2014, 2015.
- 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-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

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

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.)