

Qingzhao Yu

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Education

Ohio State University, Department of Statistics, 2002 - 2006

Ph.D. in Statistics, August 2006

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

Experience

Louisiana State University

Assistant Professor, School of Public Health, Biostatistics, Sep. 2006-Present

Ohio State University

Research Assistant, Department of Statistics, Jul.-Dec. 2005

Consultant, Statistical Consulting Service, Jan.-Jun. 2004, 2005

Research Assistant, Center for Survey Research, Sep. 2003-Aug. 2004

Teaching Assistant, Department of Statistics, Jan.-Aug. 2003, Oct.-Dec. 2004

Bank of Shanghai, Shanghai, China

Assistant Manager, Jul.-Dec. 2001

Research Interests

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

Teaching

Louisiana State University

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 6500: Multivariate Methods Lab (Spring, 2007)

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

Ohio State University

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

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

Selected Publications and Manuscripts

Yu, Q., 2009, Weighted Bagging - A Modification of AdaBoost from the Perspective of Importance Sampling. Accepted by *Journal of Applied Statistics*.

Scribner, R., Theall, K., Simonsen, N., Cohen, D., Mason, K. and **Yu, Q.** 2009, Misspecification of the Effect of Race in Fixed Effects Models of Health Inequalities. Accepted by *Social Science & Medicine*.

Yu, Q., Li, B., Fang, Z. and Peng, L. 2009, An Adaptive Sampling Scheme Guided by BART With Application to Predict Processor Performance. Accepted by *The Canadian Journal Of Statistics*.

Li, B. and **Yu, Q.** 2009, Robust and Sparse Bridge Regression. Accepted by *Statistics and Its Interface*.

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. Accepted by *Journal of Applied Statistics*.

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.

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

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

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.

Grants

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 Richard Scribner. 2009-2011.

PI, DHH/OPH/EPI, CFMS 671761: Fishing Tissue HG Concentration Analysis (\$10,039). PI Qingzhao Yu. 2008-2009.

Co-Investigator, Healthy Aging, PI Michal Jazwinski. Jan. 2009 - date.

Statistician, National Institute of Alcohol Abuse and Alcoholism Fund 5 RO1 AA013810-03: Neighborhood Environment and Alcohol Health Disparities. PI Richard Scribner, LSUHSC-NO. 2006 - 2008.

Research Associate, National Science Foundation, Grant Number SES-0437251: Hierarchical Bayesian Methods in Consumer Behavior. P.I. Angela Dean et al., The Ohio State University, 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 E.A. Stasny and A.L. Coker. 2004 - 2005.

Scholarly Presentations

- 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.
- "AdaBoost from the Perspective of Importance Sampling", *Joint Statistical Meetings*, Washington D.C., Aug. 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", *ENAR*, San Antonio, TX, Mar. 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”, *Biostats Seminar*, New Orleans, LA, Feb. 2009.
- “Adaptive Experimental Design”, *Prostate Cancer Group Meetings*, New Orleans, Sep. 2008.
- “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.
- “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.
- “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.
- “Bayesian Synthesis”, *Tenth Meeting of New Researchers in Statistics and Probability*, Salt Lake City, Jul. 2007.
- “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.
- “Feature Extraction for Functional Data in Classification”, *Fourth Annual Mid-South Conference on Computational Biology and Bioinformatics*, New Orleans, Feb. 2007.
- “What People Do As Biostatisticians”, *Louisiana State University Mathematics Club*, Baton Rouge, NOV. 2006.
- “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.
- “Bayesian Synthesis”, *The Joint Statistical Meetings*, Seattle, Aug. 2006.
- “Bayesian Synthesis”, Invited Talk at *MD Anderson Cancer Center*, Huston Mar. 2006.
- “Data-Splitting Models for O3 Data”, *The Eighth Workshop for Case Studies in Bayesian Statistics*, Pittsburg, Sep. 2005.
- “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.

- “A Bayesian Case Study on Kentucky Derby Data”, *Seminars in Quantitative Studies in Consumer Behavior Study Group*, Columbus, Apr. 2005.

Honors and Awards

- Travel Award to attend the 2008 ENAR Workshop for Junior Researchers, 2008.
- Travel Award to attend the 2008 Winter Bayesian Workshop, 2008.
- Travel Award to attend the 10th Meeting of New Researchers in Statistics and Probabilities, 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.

Activity and Committee

- Session Chair, Section on Bayesian Statistical Science , *The Joint Statistical Meetings*, Washington DC, Aug. 2009.
- President, American Statistical Association Louisiana Chapter, 2009-2010.
- 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 - date).
- 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.
- Vice President, American Statistical Association Louisiana Chapter, 2008-2009.
- Presentative, American Statistical Association Louisiana Chapter, 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. na State University Health Sciences Center, 2007-2008.

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

Professional Memberships and Certifications

- American Statistical Association
- Institute of Mathematical Statistics
- International Society for Bayesian Analysis
- Certified Public Accountant in China, since 1999