Yize Zhao

CONTACT INFORMATION	Division of Biostatistics and Epidemiology Department of Healthcare Policy and Research Weill Cornell Medical College, Cornell University LA-245, 402 E 67th St *E-mail:* yiz2013@med.cornell.edu New York, NY, 10065 *Office:* +1-646-962-7640

RESEARCH INTERESTS

Bayesian Methods, High/Ultra-high Dimensional Data Analysis, Neuroimaging, Imaging Genetics, Functional Data Analysis, Network/Pathway Analysis

EDUCATION

Ph.D. in Biostatistics, Emory University, GA, USA, 2010-2014
GPA: 3.98/4.00, *Best Qualifiers Performances* (Top 1)

B.S. in Statistics, Zhejiang University, Zhejiang, China, 2006-2010
GPA: 3.90/4.00, *Graduated with Best Thesis Award* (Top 3%)

RESEARCH EXPERIENCE

Assistant Professor, July 2016 – Present
Division of Biostatistics and Epidemiology, Department of Healthcare Policy and Research, Weill Cornell Medical College, Cornell University

Postdoctoral Fellow, August 2014 – July 2016
Statistical and Applied Mathematical Sciences Institute (SAMSI)
jointly appointed at
Department of Biostatistics, University of North Carolina at Chapel Hill

AWARDS AND HONORS

- David P. Byar Travel Award, Biometrics Section, American Statistical Association, 2014

- Student Paper Award, Section on Statistical Learning and Data Mining, American Statistical Association, 2014

- Student Paper Award, Section on Bayesian Statistical Science, American Statistical Association, 2013

- NSF travel award for the 9th Conference on Bayesian Nonparametrics, National Science Foundation, 2013

- The Boyd Harshbarger student travel award, Southern Regional Council on Statistics (SRCOS) Summer Research Conference, 2013

- Nominated by Emory University for the Howard Hughes Medical Institute (HHMI) International Student Research Fellowship, Emory University, 2012

- Outstanding Student Fellowship, Zhejiang University, 2007-2010

PUBLICATIONS **Published**

1. Lan, Z., **Zhao, Y.**, Kang, J., Yu, T.. Bayesian Network Feature Finder (BANFF): an R package for gene network feature selection. *Bioinformatics*, doi: 10.1093/bioinformatics/btw522, 2016.

2. **Zhao, Y.**, Chung, M., Johnson, B.A., Moreno, C., Long, Q.. Hierarchical feature selection incorporating known and novel biological information: identifying genomic features related to prostate cancer recurrence. *Journal of the American Statistical Association*, in press: 2016.

3. **Zhao, Y.**, Kang, J., Long, Q.. Bayesian spatial variable selection for ultra-high dimensional neuroimaging data: a multiresolution approach. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, in press, 2015.

4. **Zhao, Y.**, Kang, J., Yu, T.. A Bayesian nonparametric mixture model for selecting genes and gene sub-networks. *Annals of Applied Statistics*, 8(2): 999-1021, 2014.

5. **Zhao, Y.**, Long, Q.. Multiple imputation in the presence of high-dimensional data. *Statistical Methods in Medical Research*, doi: 10.1177/0962280213511027, 2013.

6. Yu, T., **Zhao, Y.**, Shen, S.. Assessing association between p-value list. *Statistical Analysis and Data Mining*, 6 (2): 144-155, 2013.

7. Long, Q., Zhang, X., **Zhao, Y.**, Johnson, B.A., Bostick, R.M.. Modeling clinical outcome using multiple correlated functional biomarkers: a Bayesian approach. *Statistical Methods in Medical Research*, doi: 10.1177/0962280212460444, 2012.

8. Wasse, H., Huang, R., Long, Q., **Zhao, Y.**, Singapuri, S., Tangpricha, V.. Very high-dose cholecalciferol and arteriovenous fistula maturation in ESRD patients: a randomized, double-blind, placebo-controlled pilot study. *Journal of Vascular Access*, 15 (2): 88-94, 2014.

Under Revision

9. **Zhao, Y.**, Zhu, H., Lu, Z., Knickmeyer, R., Zou, F. (2015). Bayesian hierarchical variable selection for genome-wide association studies. *Annals of Applied Statistics*

Submitted

10. **Zhao, Y.**, Zou, F., Lu, Z., Knickmeyer, R., Zhu, H. (2015). Bayesian feature selection for ultra-high dimensional imaging genetics data. (*MICCAI Workshop on Imaging Genetics*).

PRESENTATIONS & SEMINARS	1. "Bayesian feature selection for ultra-high dimensional imaging genetics data", Joint Statistical Meetings, Chicago, IL, 2016

1. "Bayesian feature selection for ultra-high dimensional imaging genetics data", Joint Statistical Meetings, Chicago, IL, 2016

2. "Bayesian feature selection for ultra-high dimensional imaging genetics data", Third Taihu International Statistics Forum, Shanghai, 2016

3. "Bayesian hierarchical variable selection for genome-wide association studies", Joint Statistical Meetings, Seattle, WA, 2015

4. "Bayesian hierarchical variable selection for genome-wide association studies", Bioinformatics Transition Workshop, SAMSI, Research Triangle Park, NC, 2015

5. "Bayesian spatial variable selection for ultra-high dimensional neuroimaging data", Duke University, Durham, NC, 2014

6. "Hierarchical feature selection incorporating known and novel biological information: identifying genomic features related to prostate cancer recurrence", Joint Statistical Meetings, Boston, MA, 2014

7. "Bayesian hierarchical feature selection of structured functional predictors measured with error", Joint Statistical Meetings, Montréal, Canada, 2013

8. "A Bayesian mixture model for gene network selection", Eastern North American Region Spring Meeting, Orlando, FL, 2013

9. "Multiple imputation for high-dimensional Data", Joint Statistical Meetings, San Diego, CA, 2012

TEACHING EXPERIENCE

Lecturer
Statistical and Applied Mathematical Sciences Institute (SAMSI)

- *SAMSI Undergraduate Modeling Workshop*
  Teach modeling techniques and software implementation to college students selected nationwide

Department of Biostatistics, University of North Carolina at Chapel Hill

- *Theory and Application of Generalized Linear Model* (Guest Lecturer)
  Advanced core course for Ph.D. students in biostatistics

Teaching Assistant
Department of Biostatistics and Bioinformatics, Emory University

- *BIOS 709: Generalized Linear Models*
  Advanced core course for Ph.D. students in biostatistics

- *BIOS 510: Probability Theory*
  Core course for first year Ph.D. and master students in biostatistics

- *BIOS 540: Introduction to Bioinformatics*
  Introductory course for students in biostatistics

- *BIOS 500: Statistical Methods I*
  Introductory course for students in non-biostatistics

- Associate Editor: *BMC Medical Research Methodology*, 2016–Now

- Referee: *Journal of the American Statistical Association, Biometrics, Statistics in Medicine, American Journal of Epidemiology, NeuroImage, Journal of Statistical Computation and Simulation, Frontiers in Neuroscience, BMC Medical Research Methodology*

- Co-organizer: *SAMSI Undergraduate Modeling Workshop*

- Committee Member: Section on Bayesian Statistical Science, Student Paper Award, JSM 2016