Ye Liang

CONTACT INFORMATION

301J MSCS Building
Stillwater, OK 74078
United States

phone: (405) 744-9655
e-mail: ye.liang@okstate.edu

EDUCATION

Ph.D. in Statistics, University of Missouri, Columbia, MO, 2012.

M.A. in Statistics, University of Missouri, Columbia, MO, 2009.

B.S. in Mathematics, Nanjing University, China, 2006.

PROFESSIONAL EMPLOYMENT

Assistant Professor 08/2012 to present
Department of Statistics, Oklahoma State University

Graduate Instructor 08/2011 to 05/2012
Department of Statistics, University of Missouri

Graduate Statistician 07/2009 to 08/2011
Missouri Cancer Registry and Research Center

Intern 05/2008 to 08/2008
Division of Biostatistics, Covance Laboratories, Inc.

RESEARCH INTERESTS

- Bayesian statistics, Bayesian hierarchical models, Bayesian computations
- Spatial statistics, spatio-temporal models, dynamic state-space models
- Graphical models, Markov random field, lattice data
- Survival analysis, reliability analysis, lifetime data

PEER-REVIEWED PUBLICATIONS

Hendershot M and Liang Y. Quantifying legal landmarks: applying the legislative accomplishment approach to the decisions of the Supreme Court. In revision. (ssrn.com/abstract=2465993)

Liang Y. A graph-based multivariate conditional autoregressive model. In revision. (arXiv:1402.2734)

Liang Y and Sun D (2014). Identifiability of masking probabilities in the competing risks model with emphasis on Weibull models. *Communications in Statistics - Theory and Methods*. In press.

Liang Y, Sun D, He Z and Schootman M (2014). Modeling bounded outcome scores using the binomial-logit-normal distribution. *Chilean Journal of Statistics*, Vol. 5-2, 3-14.

Liang Y and Sun D (2012). Objective priors for generative star-shape models, *Statistics & Probability Letters*, Vol. 82, 991-997.

CONFERENCE PROCEEDINGS

Liang Y, Sun D, He Z and Schootman M (2010). A deaggregating model for semi-areal data with bivariate CAR priors, *JSM Proceedings Section on Bayesian Statistical Science*, 3726-3738.

PRESENTATIONS

A graph-based multivariate conditional autoregressive model. 2014. Dept. of Statistics. Oklahoma State University. Invited talk.

A graph-based multivariate conditional autoregressive model. 2013. OBayes, Durham, NC. Poster.

Tutorial on Gaussian Markov random field. 2013. INFORMS, Oklahoma State University. Invited talk.

A graph-based multifold conditional autoregressive model for multivariate areal data. 2013. SRCOS, Burns, TN. Invited talk.

Identifiability of masking probabilities in the competing risks model. 2013. ENAR, Orlando, FL. Contributed talk.

A deaggregating model for semi-areal data with bivariate CAR priors. 2010. JSM, Vancouver, Canada. Contributed talk.

Objective priors for a normal decomposable model. 2009. OBayes, Philadelphia, PA. Poster.

Multivariate CAR models for quality of life in breast cancer research. 2009. Spatial-temporal Opening Workshop, SAMSI, NC. Poster.

Research Grants

Adapting socio-ecological systems to increased climate variability. 2013-2018. NSF EPSCoR. Co-Investigator. (My two-year budget: $63,969).
Dean's incentive grant. 2014. CAS, Oklahoma State University. $3,000.
Dean's incentive grant. 2013. CAS, Oklahoma State University. $3,000.

Tavel Awards

Fall travel grant. 2014. CAS, Oklahoma State University.
Junior researcher travel award. 2013. OBayes13.
Spring travel grant. 2013. CAS, Oklahoma State University.
Graduate travel grant, 2010. Dept. of Statistics, University of Missouri.
Graduate travel grant, 2009. Dept. of Statistics, University of Missouri.
Graduate travel grant. 2009. GSA, University of Missouri.

Teaching

Oklahoma State University
STAT 4073 Engineering Statistics with Experimental Design (4)
STAT 5213 Bayesian Decision Theory (2)
STAT 5513 Multivariate Analysis (2)
STAT 5123 Probability Theory (1)
STAT 5023 Statistics for Experimenters II (2)
STAT 6001 Statistics Literature (1)
University of Missouri
STAT 2500 Introduction to Probability and Statistics
STAT 1200 Introductory Statistical Reasoning

Students

Advisee
Xijia Han, Statistics PhD, "Dynamic spatio-temporal modeling for soil moisture"
Wei Gao, Statistics Master, "Inference with a bivariate exponential distribution"
Committee
Ole Forsberg, Stat PhD; Sayed Mostafa, Stat Master; Hong Liu, CS PhD; Longji Sun, EE PhD; Joseph Dale, NREM Master; Tina Shi, Stat PhD.
Honors Student
Derek Wietelman (Wentz Scholar)

Honors

President's Cup for Creative Interdisciplinarity First Place, 2013, Oklahoma State University. (Team Member)