

Weixin Yao

CONTACT INFORMATION

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Department of Statistics
University of California, Riverside
Riverside, CA 92521

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RESEARCH INTERESTS

Mixture models, Robust data analysis, Analysis of longitudinal data, High dimensional data analysis, Nonparametric and semiparametric modeling.

EDUCATION

The Pennsylvania State University-University Park

Ph.D. in Statistics, August 2007

- Dissertation Topic: “On Using Mixtures and Modes of Mixtures in Data Analysis”
- Advisors: Dr. Bruce G. Lindsay and Dr. Runze Li

University of Science and Technology of China

B.S. in Statistics, July 2002

PROFESSIONAL EXPERIENCE:

2014-present: Associate Professor (tenured), Department of Statistics, University of California, Riverside, CA.

Previous (2013-2014): Associate Professor (tenured), Department of Statistics, Kansas State University, Manhattan, KS.

Previous (2007-2013): Assistant Professor, Department of Statistics, Kansas State University, Manhattan, KS.

EDITORIAL SERVICE

- Associate Editor, *Biometrics* (2018-present)
- Associate Editor, *Journal of Computational and Graphical Statistics* (2018-present)
- Associate Editor, *Journal of Multivariate Analysis* (2018-present)
- Associate Editor, *The American Statistician* (2017-present)

HONORS AND AWARDS

- Faculty Development Awards, Kansas State University, 2013
- The winner of *Journal of Nonparametric Statistics Best Paper Award 2012*
- The William L. Harkness Graduate Teaching Award, 2006
- Vollmer-Kleckner Fellowship, 2004
- Pass with distinction (ranked 1st) in the Ph.D. candidacy examination, 2004
- Pass with distinction (ranked 1st) in the M.S. candidacy examination, 2003

REFERRED PUBLICATIONS AND MANUSCRIPTS

Referred publications. Advised student authors are underlined.

- Xiang, S. and **Yao, W.*** (2017). A selective overview of semiparametric mixture of regression models.
- Huang, M., **Yao, W.***, Wang, S., and Chen, Y. (2017). Statistical Inference and Applications of Mixture of Varying Coefficient Models. *Scandinavian Journal of Statistics*.
- Huang, M., Ji, Q., and **Yao, W.*** (2017). Semiparametric Hidden Markov Model with Nonparametric Regression. *Communications in Statistics-Theory and Methods*.
- Wu, J., **Yao, W.**, and Xiang, S. (2017). Computation of an efficient and robust estimator in a semiparametric mixture model. *Journal of Statistical Computation and Simulation*, 87, 2128-2137.
- Cacho, A., **Yao, W.**, and Cui, X. (2017). Base-calling using a random effects mixture model on next-generation sequencing data. *Statistics in Biosciences*.
- Hu, H., **Yao, W.**, and Wu, Y. (2017). The robust EM-type algorithms for log-concave mixtures of regression models. *Computational Statistics and Data Analysis*, 111, 14-26.

- Yu, C., **Yao, W.**, and Chen, K. (2017). A New Method for Robust Mixture Regression. *The Canadian Journal of Statistics*, 45, 77-94.
- Xiang, S. and **Yao, W.** (2018). Semiparametric Mixtures of Nonparametric Regressions. *Annals of the Institute of Statistical Mathematics*, 70, 131-154.
- Chen, Y. and **Yao, W.***(2017). Unified Inference for Sparse and Dense Longitudinal Data in Time-Varying Coefficient Models. *Scandinavian Journal of Statistics*, 44, 268-284.
- Wu, Q. and **Yao, W.** (2017). Relabel mixture models via modal clustering. *Communications in Statistics-Simulation and Computation*, 46, 3406-3418.
- Yu, C. and **Yao, W.***(2017). Robust Linear Regression: A Review and Comparison. *Communications in Statistics-Simulation and Computation*, 46, 6261-6282.
- Yang, L., Xiang, S., **Yao, W.** (2017). Robust Fitting of Mixtures of Factor Analyzers Using the Trimmed Likelihood Estimator. *Communications in Statistics-Simulation and Computation*, 46, 1280-1291.
- Li, M., Xiang, S., **Yao, W.** (2016). Robust Estimation of the Number of Components for Mixtures of Linear Regression Models. *Computational Statistics*, 31, 1539-1555.
- Xiang, S., **Yao, W.**, and Seo, B. (2016). Semiparametric Mixture: Continuous Scale Mixture Approach. *Computational Statistics and Data Analysis*, 103, 413-425.
- Shi, J., Yu, N., and **Yao, W.** (2017). Energy efficient building HVAC control algorithm with real-time occupancy prediction. *Energy Procedia*, 111, 267-276.
- Zhou, X., Yu, N., **Yao, W.**, and Johnson, R. (2016). Forecast Load Impact from Demand Response Resources. In *Power and Energy Society General Meeting (PESGM)*, 2016, (pp. 1-5). IEEE. Nominated for *Best Paper Award in Electric vehicles, energy storage, microgrids, and demand response operations and market economics*.
- Kürüm, E., Li, R., Shiffman, S., and **Yao, W.** (2016). Time-Varying Coefficient Models for Joint Modeling Binary and Continuous Outcomes in Longitudinal Data. *Statistica Sinica*, 26, 979-1000.
- Xiang, S. and **Yao, W.** (2016). A New Information Criterion Based Bandwidth Selection Method for Nonparametric Regressions. *Journal of Statistical Computation and Simulation*, 86, 3446-3455.
- Hu, H., Wu, Y., and **Yao, W.** (2016). Maximum Likelihood estimation of mixture of log-concave densities. *Computational Statistics and Data Analysis*, 101, 137-147.
- Wang, S., Huang, M., Wu, X., and **Yao, W.***(2016). Mixture of Functional Linear Models and Its Application to CO₂-GDP Functional Data. *Computational Statistics and Data Analysis*, 97, 1-15.
- Bai, X., Chen, K., and **Yao, W.***(2016). Mixture of Linear Mixed Models Using Multivariate t Distribution. *Journal of Statistical Computation and Simulation*, 86, 771-787.
- Wu, Q. and **Yao, W.** (2016). Mixtures of quantile regressions. *Computational Statistics and Data Analysis*, 93, 162-176.
- Yu, C., Chen, K., and **Yao, W.***(2015). Outlier Detection and Robust Mixture Modeling Using Nonconvex Penalized Likelihood. *Journal of Statistical Planning and Inference*, 164, 27-38.
- Ma, Y. and **Yao, W.***(2015). Flexible Estimation of A Semiparametric Two-component Mixture Model With One Parametric Component. *Electronic Journal of Statistics*, 9, 444-474.
- Chen, Y., Wang, Q., and **Yao, W.***(2015). Adaptive Estimation for Varying Coefficient Models. *Journal of Multivariate Analysis*, 137, 17-31.
- **Yao, W.** (2015). Label switching and its solutions for frequentist mixture models. *Journal of Statistical Computation and Simulation*, 85, 1000-1012.
- **Yao, W.***and Song, W. (2015). Mixtures of linear regression with measurement errors. *Communications in Statistics - Theory and Methods*, 44, 1602-1614.
- Wang, S., **Yao, W.***, and Huang, M.(2014). A Note On the Identifiability of Nonparametric and Semiparametric Mixtures of GLMs. *Statistics and Probability Letters*, 93, 41-45.
- Xiang, S., **Yao, W.***, and Wu, J. (2014). Minimum profile Hellinger Distance Estimation for a Semiparametric Mixture Model. *The Canadian Journal of Statistics*, 42, 246-267.
- Huang, M., Li, R., and Wang, H., and **Yao, W.** (2014). Estimating Mixture of Gaussian Processes by Kernel Smoothing. *Journal of Business and Economics Statistics*, 32, 259-270.
- **Yao, W.***and Li, L. (2014). An Online Bayesian Mixture Labeling Method by Minimizing

Deviance of Classification Probabilities to Reference Labels. *Journal of Statistical Computation and Simulation*, 84, 310-323.

- **Yao, W.*** and Li, L. (2014). A New Regression Model: Modal linear regression. *Scandinavian Journal of Statistics*, 41, 656-671.
- Song, W., **Yao, W.**, and Xing Y. (2014). Robust mixture regression model fitting by laplace distribution. *Computational Statistics and Data Analysis*, 71, 128-137.
- **Yao, W.***, Wei, Y., and Yu, C. (2014). Robust Mixture Regression Using T-Distribution. *Computational Statistics and Data Analysis*, 71, 116-127.
- **Yao, W.** and Li, R. (2013). New local estimation procedure for nonparametric regression function of longitudinal data. *Journal of the Royal Statistical Society, Ser B*, 75, 123-138.
- **Yao, W.** and Wang, Q. (2013). Robust variable selection through MAVE. *Computational Statistics and Data Analysis*, 63, 42-49.
- **Yao, W.** (2013). A Note On EM Algorithm For Mixture Models. *Statistics and Probability Letters*, 83, 519-526.
- **Yao, W.** (2013). A simple solution to Bayesian mixture labeling. *Communication in Statistics-Simulation and Computation*, 42, 800-813.
- **Yao, W.*** and Zhao, Z. (2013). Kernel density-based linear regression estimate. *Communications in Statistics-Theory and Methods*, 42, 4499-4512.
- Lindsay, B. G. and **Yao, W.*** (2012). Fisher Information Matrix: A Tool for Dimension Reduction, Projection Pursuit, Independent Component Analysis, and More. *The Canadian Journal of Statistics*, 40, 712-730.
- **Yao, W.***, Lindsay, B. G., and Li, R. (2012). Local modal regression. *Journal of Nonparametric Statistics*, 24, 647-663. *The winner of The Journal of Nonparametric Statistics Best Paper Award 2012.*
- Huang, M. and **Yao, W.*** (2012). Mixture of regression models with varying mixing proportions: A semiparametric approach. *Journal of the American Statistical Association*, 107, 711-724.
- **Yao, W.** (2012). Model based labeling for mixture models. *Statistics and Computing*, 22, 337-347.
- **Bai, X.**, **Yao, W.***, and Boyer, J. E. (2012). Robust fitting of mixture regression models. *Computational Statistics and Data Analysis*, 56, 2347-2359.
- Zhao, Z. and **Yao, W.** (2012). Sequential design for nonparametric inference. *The Canadian Journal of Statistics*, 40, 362-377.
- **Yao, W.** (2012). A bias corrected nonparametric regression estimator. *Statistics and Probability Letters*, 82, 274-282.
- Wang, Q. and **Yao, W.*** (2012). An adaptive estimation of MAVE. *Journal of Multivariate Analysis*, 104, 88-100.
- **Yao, W.** (2012). Bayesian mixture labeling and clustering. *Communications in Statistics - Theory and Methods*, 41, 403-421.
- Cao, J. and **Yao, W.*** (2012). Semiparametric mixture of binomial regression with a degenerate component. *Statistica Sinica*, 22, 27-46.
- Song, W. and **Yao, W.** (2011). A lack-of-fit test in Tobit errors-in-variables regression models. *Statistics and Probability Letters*, 81(12), 1792-1801.
- **Yao, W.** (2010). A profile likelihood method for normal mixture with unequal variance. *Journal of Statistical Planning and Inference*, 140, 2089-2098.
- **Yao, W.*** and Lindsay, B. G. (2009). Bayesian mixture labeling by highest posterior density. *Journal of the American Statistical Association*, 104, 758-767.
- Song, W., Wang H., and **Yao, W.** (2009). On the robust modal local polynomial regression. *International Journal of Statistical Science*, 9, 217-231.

Under review:

- Ma, Y., Wang, S., Xu, L., **Yao, W.***. (2018). Semiparametric Mixture Regression with Unspecified Error Distributions.
- **Zhou, X.**, **Yao, W.***, Yu, N. (2018). A Robust Mixed Effects Segmented Regression Model for Electric Load Forecasting.
- Huang, M., **Yao, W.***, He, K. (2018). Regression Estimation via Information-Weighted Com-

posite Models with Different Dimensions.

- Jeske, D. R., Kürüm, E., **Yao, W.** and Rizzo, S. (2018). Sequential Prediction in Linear Models. *Sequential Analysis*
- Xiang, S. and **Yao, W.**, Yang, G. (2018). An Overview of Semiparametric Extensions of Finite Mixture Models. *Statistical Science*
- Yang, J., Yu, N., **Yao, W.**, Wong, A., Juang, L., and Johnson, R. (2018). Evaluating the Effectiveness of Conservation Voltage Reduction with Multilevel Robust Regression.
- Wichitchan, S., **Yao, W.**, and Yang, G. (2017). Hypothesis Testing for Finite Normal Mixture Models. *Computational Statistics and Data Analysis*
- Peng, H., Jeske, D. R., SenGupta, A., and **Yao, W.**(2017). Designing One-Sided Group Sequential Clinical Trials to Detect a Mixture Alternative. *Sequential Analysis*
- Yu, C., **Yao, W.**, and Yang, G. (2017). A Selective Overview and Comparison of Robust Mixture Regression Estimators. *Computational Statistics and Data Analysis*.
- Yang, G., Xiang, S., **Yao, W.**, and Xu, L. (2017). Robust Estimation and Outlier Detection for Varying Coefficient Models via Penalized Regression. *Computational Statistics*.
- Kabir, F., Yu, N., **Yao, W.**, Wu, L., Jiang, J., Gu, Y., and Su, H. (2017). Impact of Aerosols on Reservoir Inflow: A Case Study for Big Creek Hydroelectric System in California.
- Yang G., Xiang, S., and **Yao, W.** Sure Independent Screening in Ultrahigh Dimensional Generalized Additive Models. *Journal of Statistical Planning and Inference*.
- Xu, L. Xiang, S., and **Yao, W.** (2017). Robust Maximum Lq-likelihood Estimation of Dynamic Covariance Models for Longitudinal Data. *Journal of Multivariate Analysis*.
- **Yao, W.**, Nandy, D., Lindsay, B., and Chiaromonte, F. (2017). Covariate Information Matrix for Sufficient Dimension Reduction. *Journal of the American Statistical Association*.
- Jeske, D. and **Yao, W.**(2017). Sample Size Determination and Treatment Effect Estimation if a Treatment is Only Effective in a Sub-population.
- Wichitchan, S., **Yao, W.**, Yang, G. (2016). A Simple Root Selection Method For Finite Normal Mixture Models. *Communications in Statistics-Theory and Methods*.
- Xiang, S. and **Yao, W.** (2015). Semiparametric mixtures of regressions with single-index for model based clustering. *Journal of Multivariate Analysis*.
- **Yao, W.** and Xiang, S. (2016). A New Nonparametric Regression Model Based On Modal Regression. *Bernoulli*
- Li, L. and **Yao, W.** (2017). Fully Bayesian Logistic Regression with Hyper-Lasso Priors for High-dimensional Feature Selection. *Journal of Statistical Computation and Simulation*.
- Li, L. Jiang, L., and **Yao, W.** (2017). Fully Bayesian Classification with Heavy-tailed Priors for Selection in High-dimensional Features with Grouping Structure. *The Canadian Journal of Statistics*.

GRANTS

Funded:

- Yao, W. Co-PI (2015). Leveraging Industry Research to Educate a Future Electric Grid Workforce. Award No: 10006272. Sponsors: Department of Energy. Timeline: 04/01/2016-02/14/2019. PI: Nanpeng Yu. Total amount: \$249,454.
- Yao, W. PI (2014). National Science Foundation. Collaborative Research: Information Matrix Analysis for Nonparametric Multivariate Problems. Collaborator: Bruce G. Lindsay, Department of Statistics, the Pennsylvania State University. The total requested funding is \$360,000 with \$120,000 requested for Yao. Timeline: 07/30/2014-07/31/2018 (including one year extension). DMS-1461677.
- Yao, W. Co-PI. Egg lutein prevents inflammation through activating AMP-activated protein kinase in hepatic mitochondria. Egg Nutrition Center (ENC), 2013-2014, PI: Dingbo Lin (Kansas State University), \$112,000.
- Yao, W. PI (2013). Simons Foundation. Project Title: Nonparametric and Semiparametric models. Award Number: 318403. Total amount: \$35,000. Awarded but declined by PI due to the conflict of another funded grant. Timeline: 09/01/2014-08/31/2019.

Pending:

- Yao, W. Co-PI (2017). Enhanced Modeling, Monitoring, and Maintenance of Electric Power

Distribution Systems with Advanced Data Analytics. PI: Nanpeng Yu, Co-PIs: Robert Sherick, Southern California Edison, Weixin Yao, University of California, Riverside, Anthony James, Southern California Edison. Sponsors: Department of Energy National Energy Technology Laboratory. Timeline: 03/01/2018-02/28/2021. PI: Nanpeng Yu. Total amount: \$972,932.

PRESENTATIONS

- Invited talk “Semiparametric extension of Finite Mixture Models”, University of Windsor, Windsor, ON, Canada, Feb 22, 2018.
- Invited talk “Covariate Information Matrix for Dimension Reduction”, University of California, Riverside, January 12, 2018.
- Invited talk “Covariate information matrix for dimension reduction”, The 1st International Conference on Econometrics and Statistics, Hong Kong University of Science and Technology, Hong Kong, June 15-17, 2017.
- Invited talk “Semiparametric Extensions of Mixture Models and Their Applications”, The 5th Workshop on Biostatistics and Bioinformatics, Atlanta, GA, USA, May 05-07, 2017.
- Invited talk “Some Semiparametric Mixture Models and Their Applications”, University of California, Irvine, April 27, 2017.
- Invited talk “Robust mixture modeling by mean shift parameters”, The 22nd International Conference on Computational Statistics, Oviedo, Spain, August 23-26, 2016.
- Invited talk “Robust mixture regression using the idea of variable selection”, 2016 ICSA China Statistics Conference, Qingdao, China, June 24-25, 2016.
- Invited talk “Robust mixture regression by EM algorithm”, 2016 ICSA Applied Statistics Symposium, Atlanta, GA, USA, June 12-15 2016.
- Invited talk but unable to go “Robust Mixture Regression”, The 10th ICSA International Conference on Global Growth of Modern Statistics in the 21st Century, Shanghai, China, December 19-22, 2016.
- Invited talk “Robust Mixture Regression and Outlier Detection via Penalized Likelihood”. 9th Conference of the Asian Regional Section of the IASC (IASC-ARS 2015), Singapore, December 17-19, 2015.
- Invited talk, “Robust Mixture Regression and Outlier Detection via Penalized Likelihood”. University of California, Los Angeles, November 04, 2015.
- Invited talk, “Robust Mixture Regression and Outlier Detection via Penalized Likelihood”. McGill University. Montréal, QC, Canada, October 23, 2015.
- Invited talk, “Robust Mixture Regression and Outlier Detection via Penalized Likelihood”. ICSA-Canada Chapter Symposium 2015. University of Calgary, Calgary, Alberta, Canada, August 04-06, 2015.
- “Robust Mixture Regression and Outlier Detection via Penalized Likelihood”, 2015 IMS-China International Conference on Statistics and Probability, Kunming, China, July 01-04, 2015.
- Invited talk, “Robust Mixture Regression and Outlier Detection via Penalized Likelihood”. Nankai University. Tianjin, China. June 26, 2015.
- Invited talk, “Robust Mixture Regression and Outlier Detection via Penalized Likelihood”. Jinan University, Guangzhou, China. Presented on June 23, 2015.
- Invited talk “Semiparametric Extensions of Mixture Models”, University of California, Riverside, May 15, 2015.
- Invited talk but unable to go. “Outlier Detection and Robust Mixture Modeling”. International Conference on Robust Statistics 2015. Indian Statistical Institute, Kolkata, India, January 12-16, 2015.
- Invited talk “Semiparametric Mixture Models and Their Applications”, University of Calgary, Calgary, Canada, Mar 21, 2014.
- Invited talk “Semiparametric Mixture Models”, The Ninth ICSA International Conference: Challenges of Statistical Methods for Interdisciplinary Research and Big Data, December 20-23, 2013, Hong Kong Baptist University.
- Invited talk “Finite mixture models and some of their extensions” North Carolina State University, Raleigh, NC, Nov 22, 2013.
- Invited talk “Finite mixture models and some of their extensions” University of Connecticut, Nov 20, 2013.

- Invited talk “Semiparametric Mixture Models”, Capital Normal University, Beijing, China, January 08, 2013.
- Invited talk “Semiparametric Mixture Models and Longitudinal Data Analysis”, Beijing Normal University, Beijing, China, January 04, 2013.
- Invited talk “Semiparametric Mixture Models and Longitudinal Data Analysis”, Sungkyunkwan University, Seoul, Korea, November 23, 2012.
- Invited talk “Mixture of Regression Models with Varying Mixing Proportions: A Semiparametric Approach”. The 2nd Institute of Mathematical Statistics Asia Pacific Rim Meeting, Tsukuba, Japan, July 1-4, 2012.
- Model-Based Labeling for Mixture Models. Invited for the topic contributed session “Clustering and Machine Learning”, Joint Statistical Meeting, Miami Beach, FL, July 30-August04, 2011.
- Invited talk “Model Based Labeling for Mixture Models.” Purdue University, West Lafayette, IN, April 29, 2011.
- Invited talk “Adaptive Mixtures of Regressions.” East Carolina University, Greenville, NC, November 05, 2010.
- Invited talk “Mixtures of Regressions With Unknown Error Density.” Simon Fraser University, Burnaby, BC, Canada, August 06, 2010.
- Mixtures of Regressions With Unknown Error Density. Joint Statistical Meeting, Vancouver, BC, Canada, July 31-August 05, 2010.
- Bayesian Mixture Labeling. Twelfth Meeting of New Researchers in Statistics and Probability, Johns Hopkins, July 28-31, 2009.
- Bayesian Mixture Labeling by Highest Posterior Density. Innovation and Inventiveness in Statistics Methodologies, Statistics Workshop at Yale University, May 14-18, 2009.
- Invited talk “Bayesian Mixture Labeling by Highest Posterior Density.” Department of Statistics, University of Saskatchewan, Saskatoon, Saskatchewan, Canada, November 2008.
- Bayesian Mixture Labeling by Highest Posterior Density. Joint Statistical Meeting, Denver, CO, August 2008.
- Local Linear Regression by Mixture. Joint Statistical Meeting, Seattle, WA, August 2006.

JOURNAL REFEREE

- Advances in Data Analysis and Classification (2013(2))
- Advances and Applications in Statistics (2014)
- Australian & New Zealand Journal of Statistics (2015)
- The American Statistician (2011, 2012, 2015(2),2018)
- Annals of Applied Statistics (2009, 2014(2))
- Annals of Statistics (2011,2015(2))
- Annals of The Institute of Statistical Mathematics (2017)
- Bernoulli (2014,2015)
- Biostatistics (2015)
- Canadian Journal of Statistics (2012, 2014, 2017,2018)
- Colombian Journal of Statistics (2011, 2012(2))
- Communications in Statistics-Theory and Methods (2012(3),2015(5),2016(2))
- Communications in Statistics-Simulation and Computation (2015,2016)
- Computational Statistics (2014, 2015(2),2018)
- Computational Statistics and Data Analysis (2012, 2014(2),2017)
- Electronic Journal of Statistics (2012, 2013(3))
- Geophysical Research Letters (2010)
- Hacettepe Journal of Mathematics and Statistics (2013(2))
- ICSA Springer book for the applied statistics symposium at Atlanta, June 2016 (2017(2))
- Journal of Applied Statistics (2015(2))
- Journal of Business & Economic Statistics (2013, 2017)
- Journal of Computational and Graphical Statistics (2013 (2), 2014, 2015(2), 2017, 2018)
- Journal of Multivariate Analysis (2016(2), 2017(2))
- Journal of Statistical Computation and Simulation (2014, 2015(3), 2017(2))
- Journal of Statistical Planning and Inference (2009, 2012(2), 2014,2018)
- Journal of the American Statistical Association (2012(2), 2013, 2014(4),2015(2),2016(4), 2017)

- Journal of Nonparametric Statistics (2008, 2009(2), 2012)
- Journal of the Royal Statistical Society, Ser B. (2012, 2013(3), 2014(2),2017)
- Journal of the Korean Statistical Society (2014(2))
- Multivariate Behavioral Research (2017)
- NSF reviewer (2016,2018)
- Science China Mathematics (2018)
- Stat (2014,2015)
- Statistics and Computing (2013(2),2017(3))
- Statistics in Medicine (2017)
- Statistical Papers (2013(2), 2014)
- Statistica Sinica (2010, 2012,2015)
- Statistics and Probability Letters (2012, 2014(2))
- Test (2015(3), 2017)

ACTIVITIES

- Serving on NSF Statistics Panel B: Bayesian, High Dimensional and Statistical Learning, Feb 05-07, 2018.
- Organizer of an invited session for the workshop “Model-Based Clustering and Classification”, Catania, Italy, Sep 05-07, 2018.
- Organizer of an invited session for for the conference “Advances in Finite Mixture and Other Non-regular Models”, Guilin, Guangxi, China, August 12-16, 2018.
- Organizer of an invited session for “The 3rd ICOSA Canada Chapter Symposium, Frontiers of Big Data and Statistical Science”, Vancouver, Canada, August 18-20, 2017.
- President of Kansas-Western Missouri Chapter of the American Statistical Association (04/2013-04/2014)
- Vice President of Kansas-Western Missouri Chapter of the American Statistical Association (04/2012-04/2013)
- Co-organizer of Symposium on “Innovations in Design, Analysis, and Dissemination: Frontiers in Biostatistical Methods”, Kansas city, MO, April 2013
- Editor of the Proceeding of Conference on Applied Statistics in Agriculture, Manhattan KS, May 2011.
- Organizer of the Topic-Contributed session “Statistical Inference for Mixture Models”, Joint Statistical Meeting, Miami Beach, FL, August 2011
- Organizer of the Topic-Contributed session “Recent Development in Mixture Models and Applications”, Joint Statistical Meeting, Vancouver, BC, Canada, August 2010
- Faculty Coordinators of Conference on Applied Statistics in Agriculture 2008-2010
- Chair of Mixtures Models and Their Applications Session. Joint Statistical Meeting, Salty Lake city, UT, August 2007
- Life Member of Institute of Mathematical Statistics

STUDENTS SUPERVISED

Ph.D. dissertation advisees

- Yangmei Zhou, Statistics, University of California, Riverside
- Chen Lin, Statistics, University of California, Riverside, co-advisor: Shizhong Xu
- Edward Schuberg, Statistics, University of California, Riverside, co-advisor: Shujie Ma
- Supawadee Wichitchan (2017), Statistics, University of California, Riverside
- Xiaoyang Zhou (2017), Statistics, University of California, Riverside
- Ashley Cacho (2016), Statistics, University of California, Riverside, co-advisor: Xiping Cui
- Xiuqin Bai (2014), Statistics, Kansas State University, co-advisor: Kun Chen
- Yixin Chen (2014), Statistics, Kansas State University
- Chun Yu (2014), Statistics, Kansas State University, co-advisor: Kun Chen
- Sijia Xiang (2014), Statistics, Kansas State University

Master report advisees

- Meng Li (2014), Statistics, Kansas State University
- Li Yang (2014), Statistics, Kansas State University
- Xue Bai (2012), Statistics, Kansas State University

- Wei Yan (2012), Statistics, Kansas State University
- Sijia Xiang (2012), Statistics, Kansas State University
- Xiuqin Bai (2010), Statistics, Kansas State University

Post-doctoral trainees

- Lin Xu (2015-2018), Associate Professor, School of Mathematics and Statistics, Zhejiang University of Finance and Economics

THESE COMMITTEES *Ph.D. students*

SERVED

- Hua Peng, Department of Statistics, University of California, Riverside (10/2017-12/2017)
- Luyao Peng, Department of Statistics, University of California, Riverside (10/2017-)
- Debmalya Nandy, Department of Statistics, The Pennsylvania State University (12/16-)
- Bala Natarajan, Statistics, Kansas State University (12/2016-)
- Wenyu Wang, Department of Electrical and Computer Engineering, University of California, Riverside (08/2016-)
- Jie Shi, Department of Electrical and Computer Engineering, University of California, Riverside (08/2016-)
- Marcus Cappiello, Department of Psychology, University of California, Riverside (08/16-)
- Hao Hu, Department of Statistics, North Carolina State University (2016)
- Chenwei Tian, Department of Statistics, University of California, Riverside
- Mohammad Sahtout, Statistics, Kansas State University (2014)
- Girly Ramirez, Statistics, Kansas State University (2013)
- Lin Xie, Statistics, Kansas State University (2011)

Master students

- Gaowei Nian, M.S., Statistics, Kansas State University (2014)
- Yang Wang, M.S., Statistics, Kansas State University (2014)
- Sijia Davis, M.S., Statistics, Kansas State University (2014)
- Siyu Gao, M.S., Statistics, Kansas State University (2014)
- Yuanfang Jiao, M.S., Statistics, Kansas State University (2014)
- Yanru Xing, M.S., Statistics, Kansas State University (2013)
- Jingyi Zhang, M.S., Statistics, Kansas State University (2013)
- Xiaofei Wang, M.S., Statistics, Kansas State University (2012)
- Shan Liu, M.S., Statistics, Kansas State University (2012)
- Liang Peng, M.S., Statistics, Kansas State University (2011)
- Shu Chen, M.S., Statistics, Kansas State University (2011)
- Tianhong Zhou, M.S., Statistics, Kansas State University (2010)

ORAL EXAM
COMMITTEES
SERVED

- Luke Klein, Ph.D., Department of Statistics, University of California, Riverside (10/2017-)
- Luyao Peng, Ph.D., Department of Statistics, University of California, Riverside (08/2017-09/2017)
- Feng Xiong, Ph.D., Department of Economics, University of California, Riverside (08/2017-12/2017)
- Tiantian Ye, Ph.D., Department of Genetics, Genomics and Bioinformatics, University of California, Riverside (02/2017)
- Debmalya Nandy, Ph.D., Department of Statistics, The Pennsylvania State University (08/2015-12/2016)
- Bala Natarajan, Ph.D., Statistics, Kansas State University (12/2016)
- Brandon Foggo, Department of Electrical and Computer Engineering, University of California, Riverside (11/2016-12/2016)
- Yuanqi Gao, Department of Electrical and Computer Engineering, University of California, Riverside (08/2016-)
- Wenyu Wang, Department of Electrical and Computer Engineering, University of California, Riverside (06/2016-08/2016)
- Marcus Cappiello, Department of Psychology, University of California, Riverside (11/2015-08/2016)

- Jie Shi, Department of Electrical and Computer Engineering, University of California, Riverside (04/2016-08/2016)
- Meiyue Wang, Department of Plant Biology, University of California, Riverside (05/16-06/16)
- He Wang, Department of Economics, University of California, Riverside (10/2015-11/2015)
- Shangjie Xu, Department of Statistics, University of California, Riverside (05/2015-09/2015)
- Yijia Wang, Department of Statistics, University of California, Riverside (10/2014)

SERVICES TO
DEPART-
MENT/UNIVERSITY

- Graduate advisor, 07/2015-
- Graduate Financial Aid & Recruitment 2016-
- Summit program, 05/09/2017
- Qualifying Exams committee, 2016-2017
- Qualifying Exam Appeals Committee, 2016-2017
- undergraduate recruitment event, 04/08/2017
- Serve on the statistics panel discussion, 05/19/2016.
- Careers day (02/2016)
- Develop and teach a short course for the Graduate Quantitative Methods Training Program (GradQuant) in Spring 2015.
- Judge for 2015 Riverside Unified School District's Science and Engineering Fair
- CNAS Discovery Day 02/28/2015.
- Search committee chair (09/2014-05/2015)

COURSES TAUGHT
AT UCR

- Stat 130 – Sample surveys (Fall 2014, 2015, 2016)
- Stat 155 – Probability and Statistics for Science and Engineering (Fall 2014)
- Stat 161 – Introduction to Probability Models (Spring 2015, 2016,2017)
- Stat 255g – Seminar on Topics in advanced statistics (Winter 2015)
- Stat 288 – Literature Seminar (Spring 2015)
- Stat 291 – Individual Studies in Coordinated Areas (Spring 2015 (three students))
- Stat 293B – Methods in Applied Statistics (Winter 2016)
- NASC093–Freshman Advising Seminar in the Natural and Agricultural Sciences (Fall 2016)