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EDUCATION

- Ph.D. in Mathematics, 2009, **Cornell University**, Ithaca, NY
- B.S. in Mathematics, 2003, **Nankai University**, Tianjin, China

POSITIONS

- Assistant Professor, Temple University, 2009-Present,
- Visiting Scholar, Cornell University, May- Aug, 2010,
- Research and Teaching Assistant, Cornell University, 2004-2009,

PAPERS

1. Zhao, Z. Ji, P. (2014) Rate optimal multiple testing procedure in high-dimensional regression. Submitted.
2. Chang, Y. W., Tsong, Y., Dong, X. and Zhao, Z. (2013) Sample size determination for a three-arm equivalence trial of normally distributed responses. *Journal of Biopharmaceutical Statistics*. Accepted.
3. Xie, J. and Zhao, Z. (2013) Optimal high dimensional multiple testing under linear model. Technical report.
4. Zhao, Z. and Sarkar, S. K. (2014) On the credible interval under the zero-inflated mixture prior in high dimension inference. *Statistica Sinica*.
5. Zhao, Z. and Jin, J. (2014) On the generalized Benjamini-Hochberg procedure. Technical report.
6. He, L., Sarkar, S. K. and Zhao, Z. (2013) Capturing the severity of Type II errors in high-dimensional multiple testing. Submitted.
7. Clements, N., Sarkar, S. K. and Zhao, Z. (2014) Applying multiple testing procedure to detect changes in east African vegetation. *Annals of Applied Statistics*. Vol. 8, No. 1, 286-308.
8. Anis, M., Zhao, Z., Khurana, J., Krynetskiy, E. and Soliman, A. (2013) Translational genomics of acquired laryngotracheal stenosis. Accepted. *The Laryngoscope*.
9. Zhao, Z., Wang, W. and Wei, Z. (2013) An empirical Bayes testing procedure for detecting variants in analysis of next generation sequencing data. *Annals of Applied Statistics*. Vol. 7, No. 4, 2229-2248.

10. Hwang, J. T., Zhao, Z. (2013) Empirical Bayes confidence intervals for selected parameters in high dimension with application to microarray data analysis. *Journal of the American Statistical Association*. Vol. 108, No. 502, 607-618.
11. Zhao, Z. and Hwang, J. T. (2012) Empirical Bayes FCR controlling confidence interval. *Journal of the Royal Statistical Society, Series B*. **74**, 871-897.
12. Zhao, Z. (2010) Double shrinkage empirical Bayesian estimation for unknown and unequal variances, *Statistics and Its Interface*, Volume 3, 533-541.
13. Hwang, J. T., Qiu, J. and Zhao, Z. (2009) Empirical Bayes confidence intervals shrinking both means and variances. *Journal of the Royal Statistical Society, Series B*, **71**, 265-285.

GRANT

- Principle Investigator. National Science Foundation *Bayesian Decision Theoretic Methods for Some High-Dimensional Multiple Inference Problems*. 2012-2015 (\$175,000)
- Co-Principle Investigator. Fox School of Business and Management Young Scholars Forum. *Determining an Optimal Design of Service Attributes for Mass Participation Sport Events*. 2013 (\$500)
- Co-Principle Investigator. For School of Business and Management Young Scholars Forum. *The Fama-MacBeth Method Revisited: A More Powerful Test Based*. 2010 (\$1,000)

PRESENTATIONS

- **Invited.** Rate optimal multiple testing procedure in high-dimensional regression, Joint Statistical Meetings, Boston, MA 2014
- **Invited.** Rate optimal multiple testing procedure in high-dimensional regression, International Workshop on Multiplicity, Shanghai, China 2014
- **Invited.** Optimal Multiple Testing Methods, Auburn University, AL 2014
- **Invited.** Optimal Multiple Testing Procedure Under Linear Regression Model, ENAR, Orlando, FL 2013
- **Invited.** Optimal Multiple Testing Procedure Under Linear Regression Model, Department of Statistics, University of Georgia, GA 2013
- **Contributed.** Optimal Multiple Testing Procedure Under Linear Regression Model, Joint Statistical Meetings, San Diego, CA 2012
- **Invited.** Capturing the Severity of Type II Errors in High-Dimensional Multiple Testing, ICSA Applied Statistics Symposium, Boston, MA, 2012
- **Invited.** Empirical Bayes Confidence Intervals for Selected Parameters in High dimension, National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, NC, 2011
- **Invited.** On the Credible Interval under the zero-inflated Mixture Prior in High Dimension Inference, Department of Mathematics, New Jersey Institute of Technology, Newark, NJ, 2011

- **Contributed.** On the Credible Interval under the zero-inflated Mixture Prior in High Dimension Inference, Joint Statistical Meetings, Miami, FL, 2011
- **Invited.** On the Generalized Benjamini-Hochberg procedure, IMS-China International Conference on Statistics and Probability, Xi'an, Shanxi, 2011
- **Invited.** On the Generalized Benjamini-Hochberg procedure, ICSA Applied Statistics Symposium, New York City, NY, 2011
- **Invited.** Empirical Bayes Confidence Intervals for Selected Parameters for a Large Number of Normal Populations with Unequal but Estimable Means and Variances, Department of Operations Research and Financial Engineering, **Princeton University**, Princeton, NJ, 2011
- **Invited.** Empirical Bayes Confidence Intervals for Selected Parameters for a Large Number of Normal Populations with Unequal but Estimable Means and Variances, ICSA Conference, Guangzhou, Guangdong, 2010
- **Invited.** Empirical Bayes Confidence Intervals for Selected Parameters with Unknown and Unequal Variances, Department of Statistics, University of Missouri, Columbia, MO, 2010
- **Contributed.** Empirical Bayes Confidence Intervals for Selected Parameters for a Large Number of Normal Populations with Unequal but Estimable Means and Variances, Joint Statistical Meetings, Vancouver, Canada, 2010
- **Contributed.** Empirical Bayes FCR Controlling Confidence Interval, Joint Statistical Meetings, Washington DC, 2009
- **Invited.** Empirical Bayes Confidence Intervals Shrinking Both Means and Variances, Department of Statistics, Temple University, Philadelphia, PA, 2009
- **Invited.** Empirical Bayes Confidence Intervals Shrinking Both Means and Variances, Department of Mathematics, Syracuse University, Syracuse, NY, 2008
- **Invited.** Empirical Bayes Confidence Intervals Shrinking Both Means and Variances, the 17-th annual International Chinese Statistical Association Applied Statistics Symposium, Piscataway, NJ, 2008

PROFESSIONAL ACTIVITIES

1. Associate Editor, *Statistical Analysis and Data Mining*, 2013 - present.
2. *Ad-hoc Review* (* more than once)

The American Statistician(*) • Journal of the American Statistical Association(*) • Statistica Sinica(*) • Journal of the Korean Statistical Society • Biometrics • Biometrika(*) • Annals of Statistics • Statistical Analysis and Data Mining • Journal of Probability and Statistics (*) • Journal of Nonparametric Statistics • Journal of Statistical Planning and Inference(*) • Journal of Statistical Modelling • Journal of Royal Statistical Society, Series B.

3. *Professional Memberships*

Institute of Mathematical Statistics (IMS), 2007 - Present • American Statistical Association (ASA), 2007 - Present • International Chinese Statistical Association (ICSA), 2006 - Present • American Mathematics Society (AMS), 2004 - Present

TEACHING EXPERIENCE

- Generalized Linear Models, 2011, Temple University
- Probability Theory I,II, 2009, 2010, Temple University
- Selected Statistics Applications in Business, 2009, 2010, Temple University
- Statistics Theory and Application in Real Word, 2009, Cornell University,

HONORS & AWARDS

- Raghavarao Publication Award, Temple University, 2014
- Liu Memorial Award, Cornell University, 2009
- Laha Travel Award, the Institute of Mathematics Statistics, 2009
- Batting Award, the Department of Mathematics, Cornell University, 2008
- Graduate School Travel Award and Fellowship, Cornell University, 2008