

# CURRICULUM VITAE

Tonghui (Tony) Wang

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## Education

Dec. 1992      Ph.D. in Statistics, University of Windsor, Canada.  
Aug. 1988:      M. Sc. in Statistics, University of Windsor, Canada.  
Jan. 1982:      B. Sc. in Mathematics, Northwest University, China.

## Academic Positions

- 08/2007 - Present: Professor, New Mexico State University, USA.
- 08/2000 - 07/2007: Associate Professor, New Mexico State University, USA.
- 08/1994 - 07/2000: Assistant Professor, New Mexico State University, USA.
- Spring 2016: Visiting Professor, King Mongkut University of Technology North Bangkok, Thailand.
- Fall 2015: Visiting Professor, Donghua University, China.
- Fall 2015: Visiting Professor, School of Business, The Sydney University, Australia.
- Summer 2015: Visiting Chair Professor, Inner Mongolia Agricultural University, China.
- Summer 2015: Visiting Professor: Beijing University of Technology, Beijing, China; Beihang University, Beijing, China; Northwest University, Xian, China; Northwest A and F University, Yangling, China; Xidian University, Xian, China.
- 12/2014-01/2015: Visiting Professor, King Mongkut University of Technology, Thailand and Thammasat University Thailand.
- 01/2011 - 12/2013: Chair Professor and Houji Scholar, Northwest A and F University, China.
- Summer 2014: Visiting Chair Professor, Inner Mongolia Agricultural University, China.

- Summer 2014: Visiting Professor: Northwest A and F University, Yangling, China; Xidian University, Xian, China; Northwest University, Xian, China; Donghua University, Shanghai, China; Beijing University of Technology, Beijing, China; Southwestern University of Finance and Economics, Chengdu, China; and Third Military Medical University, Chongqing, China.
- 12/2013-01/2014: Visiting Chair Professor, King Mongkut University of Technology, Thailand. Visiting Professor, Thammasat University and Chiangmai University, Thailand.
- Summer 2013: Visiting Chair Professor, Thammasat University, Thailand.
- Summer 2013: Visiting Professor, Hangzhou Daizi University, Hangzhou, China; Donghua University, Shanghai, China; Xinjiang Agriculture University, Wunomouqi, China; Northwest University, Xian, China; Shanghai Institute of Foreign Trade, Shanghai, China; King Mongkut University of Technology, Bangkok, Thailand; Xidian University, Xian, China; and Inner Mongolia Agriculture University, Huhehaote, China.
- 12/2012-01/2013: Visiting Chair Professor, King Mongkut University of Technology, Thailand.
- Summer 2012: Visiting Professor, National Chengchi University, Taiwan; Academia Sinica, Taiwan; Northwest University, Xian, China
- Summer 2011: Visiting Professor, Northwest University, Xian, China; Southwest University of Finance and Economy, Chengdu, China; Changan University, Xian, China; and Yanan University, Yanan, China.
- Summer 2009: Visiting Chair Professor, King Mongkut University of Technology, Thailand.
- Summer 2009: Visiting Professor, Northwest A and F University, China.
- Summer 2009: Visiting Professor, Chinese University of Hong Kong, Hong Kong.
- Fall 2007: Visiting Chair Professor, Southwest University of Finance and Economics, China.
- Fall 2007: Visiting Professor, Northwest A and F University, China.
- Fall 2007: Visiting Professor, Chinese University of Hong Kong, Hong Kong.
- Summer 2002: Visiting Associate Professor, Tsinghua University, Beijing, China and Beijing University of Technology, Beijing, China.
- Summer 2001: Visiting Associate Professor, National Chengchi University, Taiwan.
- Summer 2001: Visiting Associate Professor, Academia Sinica, Taiwan.

- Fall 2000: Visiting Associate Professor, Duke University, USA.
- 08/1992 - 07/1994: Visiting Assistant Professor, New Mexico State University, USA.
- 06/1986 - 01/1987: Visiting Fellow, Queen's University and University of Windsor, Canada.
- 02/1982 - 08/1986: Lecturer, Northwest Forest College, China.

## Academic Awards and Grants

- IIS - National Robotics Initiative 592,425 dollars from National Science Foundation from 06/2014-05/2017, Co-PI's Ou Ma, Igor Dolgov, and Tonghui Wang. Pending.
- **Houji Scholar grant**: 500,000 (Yuan) from 01/2011 to 12/2013, Northwest A and F University, China.
- **Research and Teaching Grant**(01/2014), Faculty of Applied Statistics, King Mongkut University of Technology, Thailand.
- **Research and Teaching Grant**(06/2013-07/2013), Thammasat University, Thailand. Thailand.
- **Research and Teaching Grant**(12/2012 -01/2013), Faculty of Applied Statistics, King Mongkut University of Technology, Thailand.
- **Research Mini-grant** (Summer 2012), Mathematics Research Promotion Center, National Science Council C/O Institute of Mathematics, Academia Sinica Taiwan.
- **Research Mini-grant** (Summer 2012), Institute of Statistics, Academia Sinica Taiwan.
- **Mathematically Connected Communities**, Co-PI's Professors Kurtz, Tamez, and Gruzka: 4,532,000 dollars from New Mexico Public Education Department starting from Summer 2010 for a duration of 3 years (October 2009).
- **Mathematically Connected Communities - Expanded/ Bulger-Tamez, Kinzer**: 500,000 dollars from New Mexico Public Education Department (April 2009) for a duration of one year.
- **Research Mini-grant**(Summer 2009), Chinese University of Hong Kong, Hong Kong.
- **Research and Teaching Grant**(Summer 2009), Faculty of Applied Statistics, King Mongkut University of Technology, Thailand.

- **Mathematically Connected Communities** - Expanded/ Bulger-Tamez, Kinzer: 500,000 dollars from New Mexico Public Education Department (April 2008) for a duration of one year.
- **Research Mini-grant**(Fall 2007), Chinese University of Hong Kong, Hong Kong.
- **Research and Teaching Grant**(Fall 2007), Southwest University of Finance and Economics, China.
- **Mathematically Connected Communities**, Co-PI's Professors Kurtz, Tamez, and Wiburg: 2,925,000 dollars from New Mexico Public Education Department starting from Summer 2007 for a duration of 3 years.
- **Mathematically Connected Communities**(Expansion), Co-PI's Professors Bulger, Tamez, and Kinzer, 500,000 dollars from New Mexico Public Education Department starting from April 2007 for a duration of one year.
- **Mathematically Connected Communities**, Co-PI's Professors Kurtz, Scott, and Wiburg: 1,600,000 dollars from New Mexico Public Education Department starting from Summer 2004 for a duration of 3 years.
- **Mathematically Connected Communities**(expansion), Co-PI's Professors Kurtz, Scott, and Wiburg: 600,000 dollars from New Mexico Public Education Department starting April 2006 for a duration of one year.
- **Research Mini-grant**(Summer 2002), Tsinghua University, China.
- **Research Mini-grant**(Summer 2001), Academia Sinica, Taiwan.
- **Research Mini-grant**(Summer 2001), National Research Council, Taiwan.
- **Summer Research Award**(Summer 2000), New Mexico State University.
- **New Mexico State University Research Mini-grant**(Jan. 1995).

### **Professional Societies and Other Activities:**

- President: Chihuahua Desert Chapter of American Statistical Association (1998 - 2000).
- Advisor: Journal of Management and Statistical Decision.
- Expert Consultant: Business Data Mining Center of Southwestern University of Finance and Economics, China.
- Member: American Statistical Association.
- Member: International Chinese Statistical Association.
- Member: Mathematical Association of America.

- Reviewer: Mathematical Reviews.

## Research Interests

- (i) Multivariate linear models and distributions of quadratic forms with applications in growth curve models, multivariate analysis of variance models, and the class of skew distributions including skew normal, skew elliptical distributions.
- (ii) Statistics of random sets with applications in coarsening data and fuzzy data.
- (iii) Probability models and statistical methods in reliability.
- (iv) Applications of the mathematical and statistical modeling.
- (v) Copulas and their statistical applications.
- (vi) Statistical inference of stochastic dominance and poverty measures with applications.

## Refereed Publications

1. N. Albeherly and T. Wang, *Stochastic Dominance to Study Poverty Measures and its Applications*, International Journal of Innovative Science and Modern Engineering, Volume 4, Issue 3, Feb. 2016
2. W. Tian, C. Wang, M. Wu, and T. Wang, *The multivariate extended skew normal distribution and its quadratic forms* in "Causal Inference in Econometrics", (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, New York, pp. 153-170, (2016).
3. Z. Wei, B. Li, and T. Wang, *On Consistency of Estimators Based on Random Set Vector Observations*, in "Causal Inference in Econometrics", (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, New York, pp. 185-198, (2016).
4. Z. Wei, T. Wang, and D. Kim, *Multiple copula regression function and directional dependence under multivariate non-exchangeable copulas*, in "Causal Inference in Econometrics", (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, New York, pp. 171-184, (2016).
5. C. Wang, W. Tian, and T. Wang, *Utilizing inverse scale skew normal distribution for Tobit regression* (in Chinese). Accepted by Statistics and Decision, July, 2015.
6. T. Wang, O. M. Kosheleva, and V. Y. Kreinovich, *How to Explain the Definition of Stochastic Affiliation to Economics Students*. Journal of Uncertain Systems. Volume 9. Issue 2. Pp. 148-150 (2015).
7. K. Suriya, T. Sudtasan, T. Wang, O. Lerma, and V. Y. Kreinovich, *A Natural Simple Model of Scientists' Strength Leads to Skew-Normal Distribution*. International Journal of Intelligent Technologies and Applied Statistics (IJITAS), Volume 8, Issue 2, pp. 153-158 (2015).

8. K. Suriya, T. Sudtasan, T. Wang, O. Lerma, and V. Y. Kreinovich, *Diversity Is Beneficial for a Research Group: One More Quantitative Argument*. Journal of Uncertain Systems, Volume 9, Issue 2, pp. 144-147 (2015).
9. N. Albehery and T. Wang, *Estimating poverty measures using truncated distributions and its applications*, International Journal of Inventive Engineering and Sciences (IJIES), ISSN: 23199598, Volume 3, Issue 5, pp. 28-32 (2015).
10. Q. Shan, T. Wongyang, T. Wang, and S. Tasen, *A Measure of mutual complete dependence in discrete variables through subcopula*, International Journal of Approximate reasoning, **65**, pp. 11 - 23 (2015).
11. Z. Wei, T. Wang, and P. Nguyen, *Multivariate dependence concepts through copulas*, International Journal of Approximate reasoning, **65**, pp. 24 - 33(2015).
12. R. Ye and T. Wang, *Inferences in linear mixed models with skew-normal random effects*, Acta Mathematica Sinica, English Series, Volume 31, No. 4, pp. 576 - 594, (2015).
13. R. Ye, T. Wang, S. Sukparungsee, and A. K. Gupta, *Tests in variance components models under skew-normal settings*, Metrika,**78**, pp. 885 - 904 (2015).
14. W. Tian, T. Wang, L. Hu, and H. D. Tran, *Distortion risk measures under skew normal settings* in "Econometrics of Risk", (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, New York, pp. 135 - 146 (2015).
15. Z. Wei, T. Wang, B. Li, and P. A. Nguyen, *The joint belief function and Shapley value for the joint cooperative game* in "Econometrics of Risk", (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, New York, pp. 115 - 134 (2015).
16. Z. Wei and T. Wang, *The joint distribution of discrete random sets and its connections to subcopulas*, The 2014 Joint Statistical Meeting Proceedings in Distribution Theory, JSM 2014-IMS, pp. 3415 - 3428.
17. W. Tian, T. Wang, and B. Li, *Risk Measures with Wang Transforms under Flexible Skew-generalized Settings*, International Journal of Intelligent Technologies and Applied Statistics, **7**(3), pp. 185-205, (2014).
18. R. Ye, T. Wang, and A. K. Gupta, *Distribution of matrix quadratic forms under skew-normal settings*, Journal of Multivariate Analysis. Volume 131, pp. 229 - 239 (2014).
19. Z. Wei, T. Wang, and W. Panichkitkosolkul, *Dependence and Association Concepts through Copulas*, in "Modeling Dependence in Econometrics", (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, New York, pp. 113-126 (2014).

20. Z. Wei, Y. Wang, G. Wei, T. Wang, and S. Bourquin, *The entropy of co-compact open covers*, *Entropy*, **15**, 2464-2479 (2013).
21. R. Ye, T. Wang, A.K. Gupta, *Distribution of matrix quadratic forms under skew-normal settings*. Technical Report No. 13-04(2013), Department of Mathematics and Statistics, Bowling Green State University, USA.
22. R. Ye, T. Wang, A.K. Gupta, *Inferences in variance component models under skew-normal settings*. Technical Report No. 13-06(2013), Department of Mathematics and Statistics, Bowling Green State University, USA.
23. B. Li, T. Wang, and W. Tian, *Risk measures and asset pricing models with new versions of Wang transform*, in "Uncertainty Analysis in Econometrics with Applications" (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, Berlin, pp. 155-166, 2013.
24. N. B. Nguyen, T. T. Chen, and T. Wang, *Selecting stable stocks in a bear market*, *Journal of Applied Probability and Statistics*, **7**(1), 87-105(2012).
25. K. Villaverde, N. Albehery, T. Wang, and V. Kreinovich, *Semi-Heuristic Poverty Measures Used by Economists: Justification Motivated by Fuzzy Techniques*, WCCI 2012 IEEE World Congress on Computational Intelligence, June, pp. 1603-1609.
26. N. Albehery and T. Wang, *Statistical inference of poverty measures using U-Statistics approach*. *Journal of Intelligent Technology and Applied Statistics*, **4**, 245-263 (2011).
27. B. Li and T. Wang *Computing reasonable allocations in coalition games*, "Proceedings of The 11th international Conference on Intelligent Technologies", Bangkok, Thailand, December 14-16, 2010.
28. N. Albehery and T. Wang, *Estimation of poverty measures with real data applications*, "Proceedings of The 11th international Conference on Intelligent Technologies", Bangkok, Thailand, December 14-16, 2010.
29. T. Wang, B. Li, and A. K. Gupta, *Distribution of quadratic forms under skew normal settings*. *Journal Multivariate Analysis*, **100**, 533-545 (2009).
30. B. Li, D. Shi, and T. Wang, *Some applications of one-sided skew distributions*, *Journal of Intelligent Technology and Applied Statistics*, **1**, pp 13-27 (2009).
31. T. Wang, B. Li, and A. K. Gupta, *A simplified version of Cochran's theorem in mixed linear models*, *Journal of Random Operators and Stochastic Equation*, **16**(3), 225-244 (2008).
32. B. Li and T. Wang, *Some Applications of one-sided skew distributions* "Proceedings of The 9th international Conference on Intelligent Technologies, Samui, Thailand, October 7-9, 2008, pp 21-27.

33. B. Li, D. Shi, and T. Wang, *Data Mining and Statistical Analysis of Human Interactions* (with B. Li and D. Shi), "Proceedings of the 9th international Conference on Intelligent Technologies", Samui, Thailand, October 7-9, 2008, pp 153-158.
34. T. Wang and B. Li, *Wishartness of quadratic forms in multivariate components of variance models*, Journal of Taiwan Intelligent Technology and Applied Statistics, **5**, 1-14 (2007).
35. T. Wang and B. Li, *Quadratic forms in skew normal distributions*, "Proceedings of the sixth International Conference on Information and Management Sciences", Lhasa, China, 2007, pp. 828-838.
36. B. Li and T. Wang, *The construction of minimum error tree with perturbation method*, "Proceedings of the sixth International Conference on Information and Management Sciences", Lhasa, China, 2007, pp. 694-702.
37. B. Li and T. Wang, *Computational aspects of CAR model and the Shapley value*, Information Sciences, **177**, pp. 3260-3270 (2007).
38. B. Li and T. Wang, *Core and allocation functions of random sets*. "Proceedings of the Fifth International Conference on Information and Management Sciences", Chengdu, China, 2006, pp. 550-554.
39. J. Zhang, J.M. Stewart, and T. Wang, *Linkage analysis between gametophytix restorer  $Rf_2$  gene and genetic markers in cotton* in "Crop Science", **45**, pp. 147-156 (2005).
40. B. Li and T. Wang, *On consistency of estimators based on random set observations*, "Proceedings of Fifth International Conference on Intelligent Technologies", Houston, 2004.
41. H. T. Nguyen, T. Wang, and B. Wu, *On probabilistic methods in fuzzy theory*, International Journal of Intelligent Systems, **19**, 99 - 109 (2004).
42. T. Wang and B. Li, *Inferences in growth curve models under elliptical settings*, Proceedings of Fourth International Conference on Intelligent Technologies, Chiang Mai, Thailand, 2003, pp. 400 - 506.
43. H. T. Nguyen and T. Wang, *On convergence of possibility measures*, Proceedings of International Conference on "Fuzzy Information processing"— Theories and Applications, Vol.1, 43 - 47 (2003). Tsinghua University Press and Springer.
44. H. T. Nguyen, T. Wang, and V. Kreinovich, *Towards foundations of processing imprecise data: from traditional statistical techniques of processing crisp data to statistical processing of fuzzy data*, Proceedings of International Conference on "Fuzzy Information processing"— Theories and Applications, Vol.2, 895 - 900 (2003). Tsinghua University Press and Springer.

45. D. Feng, N. T. Nguyen, and T. Wang, *Convolutions of equicontractive self-similar measures on the line*, Illinois Journal of Mathematics, **46**(4), (2002), 1339-1351.
46. Q. Liu, Z.Q. Zhang, T. Wang, W. T. Jones, G. Yabbara, L.W. Nolte and J. A. Bryan, *Active microwave imaging I: 2-D forward and inverse scattering methods*, IEEE Trans. Microwave Theory Tech.” , **50** , No. 1, (2002), 123-133.
47. T. Wang and R. He, *An alternative proof of a version of Cochran’s Theorem under elliptical settings*, Communications in Statistics, Theory Methods, **28**(5), (1999), 1133-1144.
48. T. Wang, *Wishartness of quadratic forms under elliptically contoured settings*, Pub. Inst. Stat. Univ. Paris, XXXXI, fasc. 3 (1997), 31-45.
49. H. T. Nguyen and T. Wang, *Belief functions and random sets* in “Random Sets — Theory and Applications”, J. Goutsias, R. P. S. Mahler and H. T. Nguyen (Eds.). The IMA Volumes in Mathematics and Its Applications, Vol. **97**, 243 - 255 (1997).
50. H. T. Nguyen, N. T. Nguyen and T. Wang, *On Capacity functionals in interval probabilities*, International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, **5** (1997), 359-377.
51. J. Harding, M. Marinacci, N. T. Nguyen, and T. Wang, *Local Radon-Nikodym derivatives of set functions*, International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, **5** (1997), 379-394.
52. T. Wang, *Versions of Cochran’s theorem for general quadratic expressions in normal matrices*, J. of Statistical Planning and Inference, **58** (1997), 283-297.
53. T. Wang, *Estimation in multivariate elliptically contoured linear models II*, Proceedings of the Sixth Eugene Lukacs Symposium, 293-306 (1996).
54. T. Wang, *Estimation in multivariate elliptically contoured linear models*, Pub. Inst. Stat. Paris. XXXX, fasc. 2 (1996), 75-92.
55. T. Wang, R. Fu, and C. S. Wong, *Cochran theorems for multivariate components of variance models*, Sankhya Ser. A, **58** (1996), 328-342.
56. T. Wang, *Moments for elliptically contoured random matrices II*, Sankhya, Ser. A, **58** (1996), 115-125.
57. C. S. Wong and T. Wang, *Laplace-Wishart distributions and Cochran theorems*, Sankhya, Ser. A, **57** (1995), 342-359.
58. T. Wang and C. S. Wong, *Cochran theorems for a multivariate elliptically contoured model*, Journal of Statistical Planning and Inferences, **43** (1995), 257-270.
59. C. S. Wong and T. Wang, *Multivariate versions of Cochran’s theorems II*, J. Multivariate Anal. **44** (1993), 146-159.

60. C. S. Wong and T. Wang, *Moments for elliptically contoured random matrices*, Sankhya Ser B, **54** (1992), 265-277.
61. C. S. Wong, J. Masaro, and T. Wang, *Multivariate versions of Cochran's theorems*, J. Multivariate Anal. **39** (1991), 154-174.

## Books

1. **A Graduate Course in Probability and Statistics**, Volume I: *Essentials of Probability for Statistics*. Co-authored with H. T. Nguyen. Tsinghua University Press, Beijing (2009).
2. **A Graduate Course in Probability and Statistics**, Volume II : *Essentials of Statistics*. Co-authored with H. T. Nguyen. Tsinghua University Press, Beijing (2009).

## Conferences and Invited Addresses

1. *Constructions of Multivariate copulas* (with X. Zhu), presented in "The 18th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 2, 2016.
2. *Confidence intervals for the normal mean with known coefficient of variation based on inferentiable models* (with Z. Ma and X. Zhu), presented in "The 18th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 2, 2016.
3. *Confidence intervals for the normal mean with known coefficient of variation* (with Z. Wang and C. Wang), presented in "The 18th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 2, 2016.
4. *Quadratic forms of refined skew normal models based on stochastic representation* (with W. Tian), presented in "The 18th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 2, 2016.
5. W. Tian, C. Wang, M. Wu, and T. Wang, in "Causal Inference in Econometrics", (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, New York, pp. 153-170, (2016).
6. Z. Wei, B. Li, and T. Wang, , in "Causal Inference in Econometrics", (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, New York, pp. 185-198, (2016).
7. Z. Wei, T. Wang, and D. Kim, , in "Causal Inference in Econometrics", (V. Huynh, V. Krennovich, S. Sriboonchitta, and K. Suriya Eds.), Springer-Verlag, New York, pp. 171-184, (2016).

8. *The multivariate extended skew normal distribution and its quadratic forms*, presented in The 9th International Conference of the Thailand Econometric Society, Jan. 6-8, 2016.
9. *On Consistency of Estimators Based on Random Set Vector Observations*, presented in The 9th International Conference of the Thailand Econometric Society, Jan. 6-8, 2016.
10. *Multiple copula regression function and directional dependence under multivariate non-exchangeable copulas*, presented in The 9th International Conference of the Thailand Econometric Society, Jan. 6-8, 2016.
11. Colloquium Speaker on *Skew normal and other skew families with applications*, School of Mathematics and Statistics, The Sydney University, Australia, September 2015.
12. Colloquium Speaker on *Copulas with applications, an invitation to modern statistics*, School of Business, The Sydney University, Australia, October 2015.
13. Colloquium Speaker on *Copulas with applications, an invitation to modern statistics*, Northwest A and F University, China, July 2015.
14. Colloquium Speaker on *Copulas with applications, an invitation to modern statistics*, Northwest University, China, July 2015.
15. Colloquium Speaker on *Measures for functional dependence*, Beijing University of Technology, China, June 2015.
16. Colloquium Speaker on *Current development in skew families with applications*, Beihang University, China, June 2015.
17. *Copulas and measures of dependence* (with T. Wongyang), presented in "The 16th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 11, 2015.
18. *Estimations of the measures of directional dependence* (with Q. Shan), presented in "The 16th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 11, 2015.
19. *On Consistency of estimators based on random set vector observations* (with Z. Wei), presented in "The 16th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 11, 2015.
20. *The multivariate extended skew normal distribution and its quadratic forms* (with W. Tian and C. Wang), presented in "The 16th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 11, 2015.
21. *Distortion risk measures under skew normal settings*, presented in The 8th International Conference of the Thailand Econometric Society, Jan. 7-9, 2015.

22. *The joint belief function and Shapley value for the joint cooperative game*, presented in The 8th International Conference of the Thailand Econometric Society, Jan. 7-9, 2015.
23. *Measures of functional dependence* (with Q. Shan and T. Wangyong), presented in "The 15th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", November 1, 2014.
24. *The decomposition of skew chi-square distribution* (with W. Tian), presented in "The 15th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", November 1, 2014.
25. *Copula based Markov chains with application on coalescent model* (with Z. Wei and J. Tian), presented in "The 15th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", November 1, 2014.
26. *The Other perspective on the functional Chi-Square and the possible relationship with the measure of complete dependence* (with T. Wangyong), presented in "The 15th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", November 1, 2014.
27. Colloquium Speaker on *The Joint distribution of random set and Shapley value*, Southwest University of Finance and Economy, China, July 2014.
28. Colloquium Speaker on *Some research topics in skew normal and other skew families*, Beijing Polytechnic University, China, July 2014.
29. Colloquium Speaker on *Statistical methods using SAS*, College of Life Science, Inner Mongolia Agriculture University, China, June 2014.
30. Colloquium Speaker on *skew normal and other skew families with applications*, Shanghai College of Finance and Economics, June 2014.
31. Colloquium Speaker on *Research topics in skew normal family*. College of Science, Donghua University, China, June 2014.
32. Invited Speaker on *Study at New Mexico State University and USA*, Northwest A and F University, China, May 2014.
33. Colloquium Speaker on *The joint distribution of bivariate random set vectors*, Department of mathematics, Northwest University, China, May 2014.
34. Colloquium Speaker on *The joint Shapley value of bivariate random set vectors*, Department of Mathematics and Statistics, Xian Dianzi University, China, May 2014.
35. *Dependence and association concepts through copulas*, presented in The Seventh International Conference of the Thailand Econometric Society, Jan. 9-11, 2014.

36. Colloquium Speaker on Distribution of discrete random set and its applications, Faculty of Mathematics and Statistics, Thamassat University, Thailand, January 2014.
37. *Comparison of classification Methods for predicting grasshopper population*(with I. C. Hernandez), presented in "The 14th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", November 2, 2013.
38. *Skew-normal Construction beyond Factor Copula Model and Pair Copula Model*(with Z. Wei), presented in "The 14th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", November 2, 2013.
39. *Risk Measures and Asset Pricing Models with Wang Transforms under Flexible Skew-generalized Distributed Settings*, presented in "The 14th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", November 2, 2013.
40. *A Measure for Mutual complete Dependence and Its Estimation* (with Q. Shan), presented in "The 14th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", November 2, 2013.
41. Colloquium Speaker on *Skew normal distributions: properties and applications*, College of Science, Inner Mogolia Agriculture University, China, August 2013.
42. Colloquium Speaker on *Comparison of classification Methods; kernel discriminant analysis, artificial neural networks and logistic regression for predicting grasshopper population*, College of Life Science, Inner Mogolia Agriculture University, China, August 2013.
43. Colloquium Speaker on *Comparison of classification Methods; kernel discriminant analysis, artificial neural networks and logistic regression for predicting grasshopper population*, College of Agriculture, Xinjiang Agriculture University, China, July 2013.
44. Colloquium Speaker on *Variance component models under skew-normal settings*, Department of mathematics, Northwest University, China, July 2013.
45. Colloquium Speaker on *Current research topics on skew-normal and skew-elliptical families*, Faculty of Statistics, King Mongkut University, Thailand, July 2013.
46. Colloquium Speaker on *Skew-distributions and applications*, Faculty of Mathematics and Statistics, Thammasat University, Thailand, June 2013.
47. Colloquium Speaker on *Risk measures with new versions of Wang transforms*, Business Information Management School, Shanghai Institute of Foreign Trade, China, June 2013.
48. Colloquium Speaker on *Distribution of matrix quadratic forms under skew-normal setting*, College of Economics, Hangzhou Daizi University, China, June 2013.

49. Colloquium Speaker on *Introduction to skew-distributions: properties and applications*, College of Science, Donghua University, China, June 2013.
50. *Research topics on skew-normal and skew-elliptical distributions*, presented in International Workshop on Applied Mathematics and Statistics, Northwest A and F University, Yangling, China, May 29-31, 2013.
51. *Dependence and association concepts through copulas*(with Z. Wei), presented in International Workshop on Applied Mathematics and Statistics, Northwest A and F University, Yangling, China, May 29-31, 2013.
52. *Estimation of parameters in skew-elliptical family* (with W. Tian), presented in International Workshop on Applied Mathematics and Statistics, Northwest A and F University, Yangling, China, May 29-31, 2013.
53. *Distribution of matrix quadratic forms under skew-normal settings*(with R. Ye), presented in "The 13th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 6, 2013.
54. *A measure for MCD in discrete variables*(with Q. Shan), presented in "The 13th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 6, 2013.
55. *Dependence and association concepts via copula*(with Z. Wei), presented in "The 13th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 6, 2013.
56. *Estimation of parameters in Tobit models under skew-normal settings*(with W. Tain), presented in "The 13th Joint NMSU/UTEP Workshop on Mathematics, Computer Science, and Computational Sciences", April 6, 2013.
57. *Risk measures and asset pricing models with new versions of Wang transform*, presented in The Six International Conference of the Thailand Econometric Society, Jan. 10-11, 2013.
58. Colloquium Speaker on *An invitation to copulas and measures of dependence*, Faculty of Mathematics and Statistics, Thammasat University, Thailand, December, 2012.
59. Colloquium Speaker on *Research topics on skew-normal and skew-elliptical families*, Faculty of Statistics, King Mongkut University, Thailand, December 2012.
60. *Risk measures and asset pricing models with new versions of Wang transform*(with B. Li and W. Tian), presented in "The 12th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", October 27, 2012.
61. *Stochastic optimal control of a space robot to approach a tumbling object for capture* (with A. Flores-Abad, Z. Wei, and O. Ma), presented in "The 12th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", October 27, 2012.

62. *Estimation of parameters in skew-elliptical family based on copula structure analysis*(with W. Tian), presented in "The 12th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", October 27, 2012.
63. *Inferences in variance components of variance models under skew-normal settings*(with R. Ye), presented in "The 12th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", October 27, 2012.
64. Colloquium Speaker on *Distributions of Quadratic Forms in Linear Mixed Models with Skew-Normal Random Effects* Institute of Statistical Science, Academia Sinica, Taiwan, July 25, 2012.
65. Colloquium Speaker on *Inferences in variance components models under skew-normal settings* (with R. Ye), National Chengchi University, Taiwan, July 24, 2012.
66. Colloquium Speaker on *Estimating poverty measures using truncated distributions and its applications*, Northwest University, China, July 5, 2012.
67. *Semi-heuristic poverty measures used by economists: Justification motivated by fuzzy techniques* (with K. Villaverde et al.), presented at "International Workshop on Research Issues in Applications of Probability and Statistics", Northwest A and F University, May 31, 2012.
68. *Studying poverty measures using stochastic dominance and its applications* (with N. Albehery), presented at "International Workshop on Research Issues in Applications of Probability and Statistics", Northwest A and F University, China, May 31, 2012.
69. *Distribution of quadratic forms in linear mixed models with skew-normal random effects* (with R. Ye), presented in "The 11th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", March 31, 2012.
70. *The skew slash elliptical distributions* (with W, Tian) presented in "The 11th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", March 31, 2012.
71. *Analysing the Tobit model under inverse-scale skew normal settings* (with W. Tian), presented in "The 10th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", November 5, 2011.
72. *Estimating poverty measures using truncated distributions* (with N. Albehery), presented in "The 10th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", November 5, 2011.
73. Lecture series on *Experiment Design and Analysis*(undergraduate and graduate level, 20 hours), Northwest A and F University, Yangling, China, May-June 2011.

74. Research Topic series on *An invitation to heavy tails* (graduate level, 10 hours), Northwest A and F University, Yangling, China, May-June 2011.
75. Colloquium Speaker on *Heavy tailed distributions and their applications*, College of Science, Northwest A and F University, Yangling, China, July 2011.
76. Colloquium Speaker on *Statistical inferences of poverty measures using U-statistics with applications*, Southwest University of Finance and Economy, Chengdu, China, July 2011.
77. Statistical inference of poverty measures using U-statistics approach with real data applications, (with Nagwa, Albehery), International Conference in Applied mathematics and Statistics, Northwest A and F University, Yangling, China, June, 2011.
78. Colloquium Speaker on *A new version of Wangs Transform based on skew-normal distributions*, College of Science, Changan University, Xian, China, June 2011.
79. Colloquium Speaker on *Statistical inferences for poverty measures using U-statistics*, Department of Mathematics, Northwest University, Xian, China, June 2011.
80. Colloquium Speaker on *Skew normal distributions — properties and applications*, College of Science, Yanan University, Yanan, China, July 2011.  
Chair and Speaker of "Lecture Series in Applied mathematics and Statistics" Northwest A and F University, Yangling, China, May and June 2011.
81. *Stochastic dominance of poverty measures and its applications* (with N. Albehery), presented in "Third International Workshop in Sequential Methodologies, Stanford University", June 14-16, 2011.
82. *Estimation of Parameters in Inverse Scale Factor Skew-Normal Distributions* (with W. Tian), presented in "The 9th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", April 2, 2011.
83. Stochastic Dominance of Poverty Measures and its Applications (with N. Albehery), presented in "The 9th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", April 2, 2011.
84. *Approximation of Binomials and Negative Binomials with Two Families of Skew-Normal Distributions* (with B. Li), presented in "The 9th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", April 2, 2011.
85. *Computing reasonable allocations in coalition games*(with B. Li), presented in "Proceedings of The 11th international Conference on Intelligent Technologies", Bangkok, Thailand, December 14-16, 2010.

86. *Estimation of poverty measures with real data applications* (with N. Albehery), "Proceedings of The 11th international Conference on Intelligent Technologies", Bangkok, Thailand, December 14-16, 2010.
87. *Statistical inference of poverty measures using U-statistics approach* (with N. Albehery), presented in "The 8th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", November 13, 2010.
88. *Estimation of linear regression model with skew normal errors* (with B. Li), presented in "The 8th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", November 13, 2010.
89. *Probability transforms with stable generators* (with W. Tian and W. Panichkitkosolkul), presented in "The 8th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", November 13, 2010.
90. *An Overview of quadratic forms under skew normal settings*, presented in "The 8th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences", November 13, 2010.
91. Colloquium Speaker on *Inferences of parameters in skew normal distributions*, Department of Mathematical Sciences, University of Texas at El Paso, October, 2010.
92. Colloquium Speaker on *The distribution of quadratic forms in skew distributions*, Department of Mathematics, Chinese University of Hong Kong, Hong Kong, May 2009.
93. Colloquium Speaker on *Estimation in skew normal distributions*, Faculty of Applied Statistics, King Mongkut University, Thailand, June 2009.
94. Lecture series on *Econometric Analysis* (graduate level, 10 hours), College of Science, Northwest A and F University, China, May-June 2009.
95. Lecture series on *The non-parametric statistics and Regression analysis* (undergraduate level, 10 hours), New College, Northwest A and F University, China, June 2009.
96. Lecture series on *Linear and non-linear statistical models* (graduate level, 45 hours), Faculty of Applied Statistics, King Mongkut University, Thailand, June 2009.
97. *Some Applications of one-sided skew distributions* (with B. Li), presented in "The 9th International Conference on Intelligent Technologies", Samui, Thailand, October 7-9, 2008.
98. *Data Mining and Statistical Analysis of Human Interactions* (with B. Li and D. Shi), presented in "The 9th International Conference on Intelligent Technologies", Samui, Thailand, October 7-9, 2008.

99. Colloquium Speaker on *An introduction to data mining procedures*, College of Science, Northwest A and F University, Xian, China, November, 2007.
100. Colloquium Speaker on *A brief introduction to skew normal and other distributions*, Department of Mathematics, Northwest University, Xian, China, November, 2007.
101. Colloquium Speaker on *The skew normal distribution and its applications*, Department of Mathematics, The Chinese University of Hong Kong, Hong Kong, November, 2007.
102. Colloquium Speaker on *The skew normal distribution and its quadratic forms*, Department of Mathematics, The Sichuan University, Chengdu, China, October, 2007.
103. Colloquium Speaker on *Review of skew normal distributions and applications*, Southwest University of Finance and Economy, Chengdu, China, October 2007.
104. Colloquium Speaker on *Versions of Cochran's theorems*, Department of Mathematics and Statistics, Bowling Green State University, Ohio, September, 2007.
105. Colloquium Speaker on *The skew normal distribution and its applications*, College of Science, The Northwest A and F University, Yangling, China, July, 2007.
106. *Quadratic forms in skew normal distributions* (with B. Li), presented in "The sixth International Conference on Information and Management Sciences", Lhasa, China, July, 2007.
107. *The construction of minimum error tree with perturbation method* (with B. Li), presented in "The sixth International Conference on Information and Management Sciences", Lhasa, China, July, 2007.
108. *Core and allocation functions of random sets* (with B. Li), *Statistics and Decision Analysis* Session of "The Fifth International Conference on Information and Management Sciences", Chengdu, China, July 2006.
109. *On consistency of estimators based on random set observations*, (with Li). Presented at *Statistics and Decision Analysis* section of "Fifth International Conference on Intelligent Technologies", Houston, December, 2004.
110. Colloquium Speaker on *Linear models with applications using SAS*, Department of Mathematics and Computer Sciences, Shaanxi Polytechnic University, Xianyang, China, August, 2004.
111. *On the convergence of Choquet capacity functionals*(with D. Feng), Presented at Joint Mathematics Meetings of AMS and MAA, Phoenix, January, 2004.
112. *Inferences in Growth Curve Models under Elliptical Settings* (with Li). Presented at "Fourth International Conference on Intelligent Technologies", Chiang Mai, Thailand, December, 2003.

113. Colloquium Speaker on *Wishartness of quadratic forms in normal settings*, Department of Mathematics, Northwest University, Xian, China, March 2003.
114. Colloquium Speaker on *Versions of Cochran's theorem with applications*, College of Science, Beijing Polytechnic University, Beijing, China, March, 2003.
115. Colloquium Speaker on *Reviews of generalized linear models*, Department of Mathematics, Tsinghua University, Beijing, China, March, 2003.
116. *On convergence of possibility measures* (with Nguyen). Presented at International Conference on Fuzzy Information Processing Theories and Applications, Beijing, China, March 2003.
117. *Towards foundations of processing imprecise data: from traditional statistical techniques of processing crisp data to statistical processing of fuzzy data* (with Nguyen and Kreinovich). Presented at International Conference on Fuzzy Information Processing Theories and Applications, Beijing, China, March 2003.
118. Colloquium Speaker on *Mixed linear models with applications*, Department of Mathematics, Tsinghua University, Beijing, China, July, 2002.
119. Colloquium Speaker on *Multivariate linear models under elliptical settings*, College of Life Science, Northwest Sci-Tech University of Agriculture and Forestry, Yangling, Shaanxi, China, June 2002.
120. Colloquium Speaker on *Inverse problems with solution methods*, College of Arts and Sciences, Shaanxi Polytechnic University, Hanzhong, China, June 2002.
121. Colloquium Speaker on *Random sets for statistics*, College of Science, Beijing Polytechnic University, Beijing, China, May, 2002.
122. Colloquium Speaker on *Inferences in growth curve models under elliptical settings*, Institute of Statistics, Academia Sinica, Taiwan, May 2001.
123. Colloquium Speaker on *Singular elliptically contoured distributions with applications*, Statistical Institute, National Chengchi University, Taiwan, May 2001.
124. Colloquium Speaker on *Estimations in multivariate mixed linear models*, Department of Statistics, Fu Jen Catholic University, Taiwan, may 2001.
125. Colloquium Speaker on *Inverse problems and their resolutions*, Department of Applied Mathematics, National Chengchi University, Taiwan, May 2001.
126. *Inverse problems with applications*. Presented at MAA Southwest Section Meeting, Las Cruces, New Mexico, April, 2001.
127. Second International Conference on Intelligent Technologies, Bangkok, Thailand, Dec. 13-15, 2000. Present the invited paper *On probabilistic methods in fuzzy theory*.

128. IMS Workshop on “Fractals and Dynamical Systems”, Chinese University of Hong Kong, Hong Kong, Dec. 4-8, 2000. Presented invited paper *Local dimensions of fractal probability measures associated with the  $(0, 1, 3)$ -problem*.
129. Colloquium Speaker on *Generalized linear models under elliptical settings*, Department of Mathematics, City University of Hong Kong, Hong Kong, December, 2000.
130. Short Course on *Statistical Inverse Problems with Applications* (two hours/week for nine weeks from August to October, 2000), Department of Electrical and Computer Engineering, Duke University.
131. Lecture Series (12 hours in September, 2000) on the “Linear Algebra, Probability, and Statistics” parts in the graduate course *Inverse Problems in Electro-magnetics and Acoustics*, Department of Electrical and Computer Engineering, Duke University.
132. *Estimation in random effect models under elliptical settings*. Presented in “The 1999 Joint Statistical Meetings” (ASA-ENAR-WNAR-IMS-SSC) in Baltimore, Maryland, August 8-12.
133. *Linear models under elliptical settings*. Presented at MAA Southwest Section Meeting, Silver City, New Mexico, April, 1999.
134. *Detections and Classifications*. Lecture Series (5 lectures) given in Detection Group of Klipsch School of Electrical and Computing Engineering, New Mexico State University, Las Cruces, NM, Feb.- March, 1999.
135. *Estimation in multivariate elliptically contoured linear models*. Colloquium, Department of Mathematics, New Mexico State University, Las Cruces, NM, March, 1999.
136. *An Alternative proof of a version of Cochran’s Theorem under elliptical settings*. Presented in Seventh International Workshop on Matrices and Statistics in Celebration of T. W. Anderson’s 80th Birthday, Fort Lauderdale, Florida, December, 1998.
137. *Linear models and Cochran’s theorem*. Colloquium, Department of Mathematics, Shaanxi Institute of Technology, Xian, China, July, 1997.
138. *Review of various versions of Cochran’s theorem*. Colloquium, Department of Mathematics, Northwest University, Xian, China, July, 1997.
139. *Random sets on a finite space with application to the theory of evidence*. Presented at MAA Southwest Section Meeting, Grants, New Mexico, April, 1997.
140. *Random sets and belief measures*. Invited paper presented at IMA Workshop: Applications and Theory of Random Sets, University of Minnesota, Minneapolis, Minnesota, August, 1996.

141. *Estimation in multivariate elliptically contoured models II*. Presented at Sixth Eugene Lukacs Symposium (on Multivariate Statistical Analysis and Theory of Random Matrices), Bowling Green State University, Bowling Green, Ohio, March, 1996.
142. *Estimation in multivariate elliptically contoured models*. Colloquium, University of Windsor, Windsor, Ontario, Canada, January, 1995.
143. *Some mathematical aspects of multivariate statistical analysis— Cochran theorems*. Colloquium, New Mexico State University, Las Cruces, NM, February, 1994.
144. *Multivariate moments and Cochran theorems*. Colloquium, University of Windsor, Windsor, Ontario, Canada, October, 1992.
145. *Moments of a random matrix and its quadratic forms*. Colloquium, New Mexico State University, Las Cruces, NM, October, 1992.
146. *Higher order moments and their applications*. Colloquium, University of Okanagan, Kelowna, BC, Canada, May, 1992.
147. *Moments of a random matrix and its quadratic forms for multivariate elliptically contoured distributions*. Presented at CSS Annual Meeting, Edmonton, Alberta, Canada, June, 1992.
148. *Best Quadratic unbiased estimator of population covariance  $\Sigma$  in a multivariate elliptically contoured model*. Presented at CSS Annual Meeting, Toronto, Ontario, Canada, June, 1991.
149. *General multivariate versions of Cochran theorems*. Presented at Statistics' 91 Canada Conference, Montreal, Quebec, Canada, May, 1991.
150. *On the orthogonal Procrustes problem in factor analysis*. Colloquium, University of Windsor, Windsor, Ontario, Canada, June, 1988.

## Professional Service

- Organizer(with Professor Ray Mines) of MAA Southwest Section Meeting at Las Cruces, USA, April 2001.
- Chairing a session in The Second International Conference on Intelligent Technologies, Bangkok, Thailand, December 2000.
- Chairing a session in The Fourth International Conference on Intelligent Technologies, Chiang Mai, Thailand, December, 2002.
- Chairing a session in The International Conference on Fuzzy Information Processing Theories and Applications, Beijing, China, March 2003.

- Chairing a session in The Fifth International Conference on Intelligent Technologies, Houston, USA, December 2003.
- Chairing a session in The Sixth International Conference on Information and Management Sciences, Lhasa, China, July, 2007.
- Chairing a session in The 11th International Conference on Intelligent Technologies, Bangkok, Thailand, December 2010.
- Chairing a session in The 8th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences was held in El Paso, Texas, on November 11, 2010.
- Organizer and Chairing a session in The 9th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences was held in Las Cruces, New Mexico, April 2, 2011.
- Chair and Organizer of International Conference (Series I, II, and III) in Applied mathematics and Statistics, Northwest A and F University, Yangling, China, May-June 2011.
- Organizer and Speaker of "Lecture Series in Applied mathematics and Statistics" Northwest A and F University, Yangling, China, May and June 2011.
- Chairing a session in The 10th UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences was held in El Paso, Texas, November 5, 2011.
- Organizer and Chairing a session in The 11th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences was held in Las Cruces, New Mexico, March 31, 2012.
- Organizer and Speaker of "Lecture Series in Applied mathematics and Statistics" Northwest A and F University, Yangling, China, May and June 2012.
- Chair and Organizer of International Conference Series in Applied mathematics and Statistics, Northwest A and F University, Yangling, China, May-June 2012.
- Chairing a session in The 12th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences, El Paso, Texas, October 27, 2012.
- Chairing a session in The Sixth International Conference of the Thailand Econometric Society, Chiangmai, Thailand, Jan. 10-11, 2013.
- Organizer and Chairing a session in The 13th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences was held in Las Cruces, New Mexico, April 6, 2013.

- Organizer and Committee Chair of "International Workshop on Applied Mathematics and Statistics", Northwest A and F University, Yangling, China, May 29-31, 2013.
- Chairing a session in The Seventh International Conference of the Thailand Econometric Society, Chiangmai, Thailand, Jan. 8-10, 2014.
- Chairing a session in The 14th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences was held in El Paso, TX, November 1, 2014.
- Chairing a session in The Eighth International Conference of the Thailand Econometric Society, Chiangmai, Thailand, Jan. 7-9, 2015.
- Organizer and Chairing a session in The 16th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences was held in Las Cruces, New Mexico, April 11, 2015.
- Chairing a session in The 9th International Conference of the Thailand Econometric Society, Chiangmai, Thailand, Jan. 6-8, 2016.
- Organizer and Chairing a session in The 18th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences was held in Las Cruces, New Mexico, April 2, 2016.

**Referee for:**

- *Canadian Journal of Statistics.*
- *Communication in Statistics– Theory Methods.*
- *IEEE Transactions of Geo-science and Remote Sensing.*
- *IEEE Transactions of Fuzzy Systems.*
- *International Journal of Approximate Reasoning.*
- *International Journal of Intelligent Technologies and Applied Statistics.*
- *Journal of Applied Mathematics.*
- *Journal of Applied Probability and Statistics.*
- *Journal of Probability and Statistics.*
- *Journal of Multivariate Analysis.*
- *Journal of Statistical Planning and Inference.*
- *Linear Algebra and Its Applications.*

- *Mathematical and Computer Modelling.*
- *Journal of the Institute of Statistical Mathematics.*
- *Annals of Operation Research.*
- *International Journal of Computers and Mathematics with Applications.*
- *Statistical Papers, Springer.*
- *Applied Mathematical Modelling.*

**Reviewer** for Mathematical Reviews.

**Statistical Consultant:** In the past 23 years, I have done statistical consulting work voluntarily for New Mexico State University faculty members and graduate students from Department of Computer Science, Industrial Engineering, Electric Engineering, Biology, chemistry, Home Economics, Psychology, Astronomy, and Agricultural Economics.