

**REGINA Y. LIU**  
*CURRICULUM VITAE*

**ADDRESS:** Department of Statistics, Rutgers University  
e-mail: *rliu@stat.rutgers.edu*

**EDUCATION:** Ph.D. Statistics, Columbia University  
Advisor: John Van Ryzin

**POSITIONS:**

7/01–present Distinguished Professor, Department of Statistics, Rutgers University  
7/05–6/20 Chair, Department of Statistics, Rutgers University  
7/94–6/01 Professor, Department of Statistics, Rutgers University  
7/88–6/94 Associate Professor, Department of Statistics, Rutgers University  
9/83–6/88 Assistant Professor, Department of Statistics, Rutgers University

**VISITING POSITIONS:**

3/2018 Invited Visiting Fellow, Isaac Newton Institute for Math. Sciences, Cambridge, UK  
5-6/1998 Special Invited Professor, Universität Bern, Switzerland  
6/1993 Invited Research Fellow, Steklov Mathematical Institute, Moscow, Russia  
5/1992 Invited Research Fellow, Math. Science Research Institute, Berkeley, CA  
12/90; 6-7/91 Invited Research Fellow, Sonderforschungsbereich, Universität Heidelberg, Germany

**HONORS & AWARDS:**

Recipient, 2024 Elizabeth L. Scott Award and Lecturer, (*COPSS*) *Committee of Presidents of Statistical Societies*  
Recipient, 2021 Gottfried E. Noether Distinguished Scholar Award, *American Statistical Association*  
Recipient, 2021 Y.S. Chow Distinguished Lecture Award, *Chinese Institute of Probability and Statistics*  
President: *Institute of Mathematical Statistics*, 2020 -2021  
Elected Fellow: *American Statistical Association*  
Elected Fellow: *Institute of Mathematical Statistics*  
Elected Member: *International Statistical Institute*  
Recipient, 2011 Stieltjes Professorship, Thomas Stieltjes Institute for Mathematics, The Netherlands  
2018 Bohrer Lecture, University of Illinois, Urbana Champaign  
2010 Hartley Lecture, Texas A&M University  
Fulbright Scholar, Spain, 2008  
Best Paper Award for Feature Application for 2000-2001, *Institute of Industrial Engineers*  
*IMS* Medallion Lecture, *Institute of Mathematical Statistics*, 1997  
*NSF* National Faculty Awards for Outstanding Women Scientists and Engineers, 1991

**RESEARCH FUNDING since 2000 :**

National Science Foundation (2000 – )  
National Institutes of Health (2005–2010)  
National Security Agency (2002–2015)  
Federal Aviation Administration (2000–2014)  
Colgate-Palmolive Company (2019–)

**EDITORIAL ACTIVITIES:**

Editor, *Journal of the American Statistical Association -Theory & Methods*, 2017-2020  
Editor, *The Journal of Multivariate Analysis*, 1993-1998

Associate Editor, *The Annals of Statistics*, 2000-2004  
Associate Editor, *Journal of the American Statistical Association*, 1993-1996  
Associate Editor, *TEST: Journal of the Spanish Society of Statistics and O.R.*, 1996-2009  
Associate Editor, *AStA, Advances in Statistical Analysis*, 2006-2008

## **RESEARCH INTERESTS:**

Fusion learning, Confidence distribution, Data depth, Nonparametric multivariate analysis, Text mining, Resampling & Resampling, Robust statistics, Extreme statistics, Statistical control, Aviation risk analysis

## **SELECTED RECENT SERVICE TO THE PROFESSION:**

Co-Chair, Program, 2024 IMS ICSDS, Nice, France, December 2024  
Organizer, SNPS 2024, Braga, Portugal, July 2024  
Organizer, 11th World Congress in Prob & Stat., Bochum, Germany, July 2024  
Co-Chair, Program, 2023 IMS ICSDS, Lisbon, Portugal, December 2023  
Organizer & Chair, Invited Session, 2023 JSM, Toronto, Canada, August 2023  
Organizer & Chair, Invited Session, 2023 International Forum in Statistics, Beijing, China, July 2023  
Organizer & Chair, Invited Sessions, Joint Conf. on Stat. & Data Sci., Beijing, China, July 2023  
Co-Chair, Program, 2022 IMS ICSDS, Florence, Italy, December 2022  
Organizer, SNPS 2021, Paphos, Cyprus, 2022  
Organizer, Invited Sessions, ICSA, China, Xian, July 2022  
Organizer, EMS 2019, Palermo, Italy  
Organizer, 2018 Joint Statistical Meetings, Vancouver, Canada, August 2018  
Organizer & Chair, 9th International Workshop on Applied Probability, Budapest, Hungary, 2018  
Organizer, Conference on Statistical Learning and Data Science (SLDS2018), New York City, 2018  
Program Chair, 2017 Joint Statistical Meeting, Baltimore, 2017  
Member, Organizing Committee for ICERM research collaboration workshop for Women in Science of Data and Mathematics, Brown U., July 2017  
Organizer & Chair, Invited Session, 4th CISE Conference, Palermo, Sicily, 2016  
Organizer & Chair, Invited Session, 2016 Joint Statistical Meeting, Chicago, 2016  
Member, ASA Committee on Meetings, 2015-2018  
ASA External Nominations and Awards Committee, 2016 -  
Chair/Member, IMS Nominating Committee, 1992-1993; 2004-2005, 2015-2017  
ASA representative, COPSS E.L. Scott Award Committee, 2013-2017  
Member, IMS Committee of Editors, 2015-2017  
Organizer & Chair, Invited Session, 2015 Joint Statistical Meeting, Seattle, 2015  
Scientific Committee, Organizer, Invited Sessions, 60th World Statistics Congress, Rio de Janeiro, 2015  
Organizer & Chair, Invited Session, IMS-China International Statistical Conf, Kuming, China, 2015  
Organizer & Chair, Invited Session, 2014 International Indian Statistical Asso. Conference, CA, 2014  
Organizer & Chair, Invited Session, International Workshop Applied Probability, Antalya, Turkey, 2014  
Member, Pearson Prize Committee, ISI, 2013  
Organizer & Chair, Invited Sessions, 59th World Statistics Congress, Hong Kong 2013  
Organizer & Chair, Invited Sessions, World Congress in Probability & Statistics, Istanbul, Turkey, 2012  
Organizer & Chair, Invited Sessions, 2nd IMS Asia Pacific Rim Meeting, Tokyo, Japan, 2012  
Program Chair, IMS Program, Joint Statistical Meeting, Vancouver, Canada, 2010  
Member, External Review Committee, Department of Statistics, Purdue University 2010

Organizer & Chair, Invited Sessions, ASA 2009 QPR Conference, New York, June 2009  
Member, *NSF VIGRE* Site Visit Team, Stanford University, 2008  
Member, *NSF VIGRE* Site Visit Team, UC Berkeley, 2007  
Chair/Member, IMS Special Lectures Committee, 2005-2008  
Organizer & Chair, Invited Session, ASA 2008 QPR Conference, Wisconsin, Madison, June 2008  
Member, Advisory Panel for NSA Mathematical Sciences Program, 2006-2009  
Member, IMS Committee on Strategic Analysis and Planning, 2006-2009  
Chair, Noether Awards Committee, ASA, 2003-2006  
Member, External Review Committee, Department of Statistics, Texas A&M University 2006  
Member, *DIMACS* Executive Committee & Council, 2005-  
Organizer, Invited session, JSM, Toronto, Canada, August 2004  
Organizer, Invited session, 7th Purdue Symposium, IN, June 2003  
Organizer, Workshop “Data Depth: Robust Multivariate Statistical Analysis, Computational Geometry and Applications”, *DIMACS*, Rutgers U., NJ, May 2003  
Organizer, Invited session, *Joint Research Conference on Statistics in Quality, Industry and Technology*, Seattle, Washington, June 2000  
Member, IMS Council, 1999-2002  
Member, Review Panel for *National Science Foundation*, off and on since 1993  
Program Chair, IMS Annual Meeting, Boston, MA, August 1992

#### **SELECTED RECENT SERVICE WITHIN THE UNIVERSITY:**

Member, SAS Planning, Implementation, and Metrics Committee, 2024  
Member, Rutgers New Brunswick Search for Director of Protein Data Bank (PDB) 2024  
Member, Appointment & Promotion Committee, SAS, Rutgers Univ, 2021-  
Member, CI-DS Provosts Strategic Taskforce, 2021-2022  
Chair, Search Committee, Department of Statistics, Rutgers University, 2021 -  
Associate Chair, Department of Statistics, Rutgers University, 2020 -  
Chair, Department of Statistics, Rutgers University, 2005–2020  
Member, SAS Bylaws Committee, Rutgers University, 2006  
Undergraduate Director, Department of Statistics, Rutgers University, 1996-99  
Member, Curriculum Committees, FAS, Rutgers University, 1997-99  
Member, Appointment & Promotion Committee, FAS, Rutgers Univ, 1991-94, 1996-97  
Consultant, The Rutgers Agricultural Education Station, Cook College, 1996  
Consultant, Office of Statistical Consulting, Department of Statistics, 1996-97

#### **LIST OF STUDENTS:**

Jesse M. Parelius (Ph.D. 1997)  
Andrew X. Cheng (Ph.D. 1998)  
Julie H. Teng (Ph.D. 1999)  
Jun Li (Ph.D. 2006)  
Wei Li (Ph.D. 2012)  
Dungang Liu (Ph.D. 2012)  
Yi Fan (Ph.D. 2016)  
Jieli Shen ((Ph.D. 2017)  
Xinyu Sun (Ph.D. 2022)

#### **MENTORING:**

Sifan Liu, Postdoc, Rutgers University (2015–2017)  
Aude Grelaud, Postdoc, Rutgers University (2012–2014)  
John Chuo, MD, Robert Wood Johnson Medical School (3/06–6/08)

#### OTHER SUPERVISION:

Marc Salant *Henry Rutgers Honors Fellow* (7/96-5/97)  
Julie Teng, Postdoc Research Associate (1/00–3/03)  
Susana Eyheramendy, Graduate Research Assistant (6/00–5/02)  
Kristine Liang, NSF REU Undergraduate research (9/05-5/06)  
Chenye Zhang, NSF REU Undergraduate research (12/07–5/08)  
Wang Yao, NSF REU Undergraduate research (3/08-8/08)  
Dakota Commons, REU Undergraduate research (6/10–8/10)

#### PUBLICATIONS:

- Liu, R. and Van Ryzin, J. (1984) ‘Maximal deviation of a hazard rate estimator under random censoring’, *Colloquia Mathematica Societatis Janos Bolya*. Colloquium on Goodness-of-fit. Debrecen (Hungary), **45**, 377-384.
- Liu, R. and Van Ryzin, J. (1985) ‘A histogram estimator of the hazard rate with censored data’, *Annals of Statistics*, **13**, 592-605.
- Liu, R. (1986) ‘Estimates for the score function under random censoring’, *Statistics and Probability Letters*, **4**, 245-251.
- Liu, R. and Van Ryzin, J. (1986) ‘The limiting distribution of the normalized maximal deviation of a density function estimate and a hazard rate estimate’, *Probability Theory and Related Fields*, **72**, 505-516.
- Liu, R. and Singh, K. (1987) ‘On a partial correction by the bootstrap’, *Annals of Statistics*, **15**, 1713-1718.
- Liu, R. and Singh, K. (1988) Invited discussion on ‘Theoretical comparison of bootstrap confidence intervals’, by Peter Hall. *Annals of Statistics*, **16**, 978.  
Liu, R. (1988) ‘Bootstrap procedure under some non-i.i.d. models’, *Annals of Statistics*, **16**, 1696-1708.
- Liu, R. (1988) ‘On a notion of simplicial depth’, *Proceedings of National Academy of Sciences, USA*, **85**, 1732-1734.
- Liu, R., Singh, K. and Lo, S. (1989) ‘On a representation related to the bootstrap’, *Sankhya, A*, **51**, 168-177.
- Singh, K. and Liu, R. (1990) ‘On the validity of the jackknife procedure’, *Scandinavian J. Stat.*, **17**, 11-21.
- Liu, R. (1990) ‘On a notion of data depth based on random simplices’, *Annals of Statistics*, **18**, 405-414.
- Liu, R. (1992) ‘Data depth and multivariate rank tests’, *Proceedings of 2nd International Conference on Stat. Data Analysis Based on the L-1 Norm and Related Methods*. 279-294. Y. Dodge, Ed., North-Holland.
- Liu, R. and Singh, K. (1992) ‘Efficiency and robustness in resampling’, *Annals of Statistics*, **20**, 370-384.
- Liu, R. and Singh, K. (1992) ‘Moving blocks bootstrap and jackknife capture weak dependence’, *Exploring the Limits of Bootstrap*, 225-248, R. LePage and L. Billard, Eds. John Wiley and Sons.
- Liu, R. and Singh, K. (1992) ‘Ordering directional data: Concepts of data depth on circles and spheres’, *Annals of Statistics*, **20**, 1468-1484.
- Liu, R. and Singh, K. (1993) ‘A quality index based on data depth and multivariate rank tests’, *Journal of the American Statistical Association*, **88**, 252-260.
- Liu, R. and Tang, J. (1994) ‘Control charts for dependent and multivariate processes’, *Proceedings of Vth International Workshop in Intelligent Statistical Quality Control*, 139-158, Osaka, Japan.
- Liu, R. (1995) ‘On inspection errors and continuous sampling plans’, Technical report, Rutgers U.

- Liu, R. and Singh, K. (1995) ‘Using i.i.d. bootstrap inference for general non-i.i.d. models’, *Statistical Inference and Planning*, **43**, 67-75.
- Liu, R. (1995) ‘Control charts for multivariate processes’, *Journal of the American Statistical Association*, **90**, 1380-1388.
- Cheng, A., Liu, R. and Luxhøj, J. (1996) ‘Analysis of safety performance thresholds for air carriers using control charting techniques’, *Proceedings of the FAA-NASA Symposium on Continued Airworthiness of Aircraft Structures*, 25-36.
- Liu, R. and Tang, J. (1996) ‘Control charts for dependent and independent measurements based on bootstrap methods’, *Journal of the American Statistical Association*, **91**, 1694-1700.
- Liu, R. and Tang, J. (1997) ‘Control charts for dependent and multivariate measurements’, *The Frontiers of Statistical Quality Control*, **5**, 102-114, Ed. P. Wilrich and H. Lenz, Springer-Verlag.
- Cheng, A., Liu, R. and Luxhøj, J. (1997) ‘Thresholds for safety inspection measurements based on control charts’, *International J. Reliability, Quality and Safety Engineering*, **4**, 205-226.
- Liu, R. and Singh, K. (1997) ‘Notions of limiting  $P$ -values based on data depth and bootstrap’, *Journal of the American Statistical Association*, **92**, 266-277.
- Fraiman, R., Liu, R. and Meloche, J. (1997) ‘Multivariate density estimation by probing depth’, *L-1 Statistical Procedures and Related Methods, IMS Lecture Notes-Monograph Series, vol.31*, pp. 415-430.
- Cheng, A., Liu, R. and Luxhøj, J. (1997) ‘A data depth monitoring scheme for aviation safety data’, *Proceedings 2nd Annual International Conference on Industrial Engineering*, 299-305.
- Cheng, A., Liu, R. and Luxhøj, J. (1998) ‘Data depth monitoring scheme for quality control’, *Ergonomics for Global Quality and Productivity*, ed. R. Bishu and R. Goonnetilleke, 177-181.
- Liu, R. and Singh, K. (1999) Invited discussion on ‘Regression depth’ by P. Rousseeuw and M. Hubert. *Journal of the American Statistical Association*, **94**, 407-409.
- Liu, R. (1999) ‘Data depth as an alternative multivariate analysis’, *1999 Proceedings of the American Statistical Association*, 24-31.
- Liu, R., Parelius, J. and Singh, K. (1999) ‘Multivariate analysis by data depth: descriptive statistics, graphics and inference’, (Special Invited Paper, with discussions) *Annals of Statistics*, **27**, 783-858.
- Cheng, A., Liu, R. and Luxhøj, J. (2000) ‘Monitoring multivariate aviation safety data by data depth: control charts and threshold systems’, *IIE Transactions on Operations Engineering*, **32**, 861-872. (**Best Paper Award for Feature Applications for 2000-2001** by *Institute of Industrial Engineers*).
- Liu, R., Madigan, D. and Eyheramendy, S. (2002) ‘Text classification for mining massive aviation inspection reports’, *Statistical Data Analysis Based on the  $L_1$  Norm and Related Methods*, 379-392, ed. Y. Dodge, Birkhäuser, Basel.
- Hüsler, J., Liu, R. and Singh, K. (2002) ‘A formula for the tail probability of a multivariate normal distribution and its applications’, *Journal of Multivariate Analysis*, **82**, 422-430.
- Liu, R. (2003) ‘*BootQC*: Bootstrap for a robust analysis of aviation safety data’, *Developments in Robust Statistics* ed. by R. Dutter et al., Springer, Heidelberg, 246-258.
- Liu, R. (2003) ‘Multivariate control charts: Hotelling, Data depth and Beyond’, *Handbooks of Statistics* **22**, eds. R. Khattree and C. R. Rao, Elsevier Science, B.V. 573-593.
- Liu, R. (2003) ‘Data depth: center-outward ordering of multivariate data and nonparametric multivariate statistics’, *Recent Advances and Trends in Nonparametric Statistics*, 155-168, eds. M. Akritas and D. Politis, Elsevier Science.
- Liu, R., Singh, K. and Teng, J. (2004) ‘Linear fitting by simplicial intercept depth (SID): reflection invariance and robustness’, *Statistica Sinica*, **14**, 431-448.
- Jeske, D. and Liu, R. (2004) ‘Mining massive text data and developing tracking statistics’, *Classification, Clustering and Data Mining Applications*, 495-510, ed. D. Banks, et al., Springer.
- Liu, R., Singh, K. and Teng, J. (2004) ‘DDMA: Nonparametric multivariate moving average control charts based on data depth’, *Allgemeines Statistisches Archiv*, **88**, 235-258.

- Jörsten, R., Li, J. and Liu, R. (2004) ‘PCLUST: Simultaneous gene selection and gene clustering based on P-values’, Technical report, Rutgers University.
- Li, J. and Liu, R. (2004) ‘Data depth for nonparametric tests of multivariate locations and scales’, *Statistical Science*, **19**, 686-696.
- Kamizono, K., Kariya, T. and Liu, R. (2005) ‘A new control variate estimator for an Asian option’, *Financial Market*, **11**, 143-160.
- Bi, Y., Jeske, D. and Liu, R. (2006) ‘Semi-supervised text classification: partial training from unlabeled data’, *Proceedings for IIE Annual Conference*.
- Liu, R. and Singh, K. (2006) ‘Rank tests for multivariate scale difference based on data depth’, *Data Depth: Robust Multivariate Analysis, Computational Geometry & Applications*, 17-36, *DIMACS Series, AMS*.
- Jeske, D. and Liu, R. (2007) ‘Mining and tracking massive text data: classification, construction of tracking statistics and inference under misclassification’ *Technometrics*, **49**, 116-128.
- Jeske, D. and Liu, R. (2007) ‘Comprehensive text mining procedure: classification and inference of tracking Statistics’, *Statistical Methods and Applications*, Springer.
- Li, J. and Liu, R. (2008) ‘Multivariate spacings based on data depth: I. construction of nonparametric multivariate tolerance regions’, *Annals of Statistics*, **36** 1299-1323.
- Einmahl, J., Li, J., Liu, R. (2009) ‘Thresholding events of extremes in simultaneous monitoring of multiple risks’, *Journal of the American Statistical Association*, **104**, 982-992.
- Li, J. and Liu, R. (2010) ‘Nonparametric tests for multivariate scale comparison using DD-plots’,
- Katsamanis, M., Lehrer, P., Escobar, J., Gara, M., Liu, R. (2011) ‘Psychophysiologic Treatment for Patients With Medically Unexplained Symptoms: A Randomized Controlled Trial’, *Psychosomatics*, **52**, 218-229.
- Li, J., Cuesta-Albertos, J., Liu, R. (2012) ‘DD-classifier: nonparametric classification procedure based on DD-plot’, *Journal of the American Statistical Association*, **107**, 737-753.
- Xie, M., Liu, R., Damaraju, C. V., Olson, W. (2013) ‘Incorporating external information in analyses of clinical trials with binary outcomes’, *Annals of Applied Statistics*, **7**, 342-368.
- Yang, G., Liu, D., Liu, R., Xie, M., Hoaglin, D. (2013) ‘Efficient network meta-analysis: a confidence distribution approach’, *Statistical Methodology*, (Invited paper in a special volume in memory of Professor Kesar Singh) **20**, 105-125.
- Liu, D., Liu, R. Xie, M. (2014) ‘Exact meta-analysis approach for discrete data and its application to 2x2 tables with rare events’, *Journal of the American Statistical Association*, **109**, 1450-1465.
- Fraiman, R., Justel, A., Liu, R., Llop, P. (2014) ‘Detecting trends in time series of functional data: a study of Antarctic climate change’, *The Canadian Journal of Statistics*. **42**, 597-609.
- Liu, D., Liu, R. Xie, M. (2015) ‘Meta-analysis of heterogeneous studies using only summary statistics: efficiency and robustness’, *Journal of the American Statistical Association*, **110**, 326-340.
- Einmahl, J., Li, J., Liu, R. (2015) ‘Bridging centrality and extremity: refining sample data depth using extreme value statistics’, *Annals of Statistics*, **43**, 2738-2765.
- Li, J. and Liu, R. (2016) ‘New nonparametric tests for comparing multivariate scales using data depth’, *Robust Rank-Based and Nonparametric Methods*, Springer, **168**, 209-226.
- Cheng, J., Liu, R., Xie, M. (2017) ‘Fusion learning’, *Wiley StatsRef: Statistics Reference Online*, 1-8.
- Cheng, A., Fan, Y., Liu, R. (2017) ‘Effective risk monitoring for aircraft landing operations using tolerance tubes for functional data’, *AIAA Science and Technology Forum*.
- Xie, M., Kolassa, J., Liu, D., Liu, R., Liu, S. (2018) ‘Does an observed zero-total-event study contain information for inference of odds ratio in meta-analysis’, *Statistics and Its Interface*. **11**, 327-337.
- Liu, D., Liu, R., Xie, M. (2018) ‘Exact inference methods for rare events’, *Wiley StatsRef: Statistics Reference Online*. 1-6.

- Shen, J., Liu, R., Xie, M. (2018) ‘Prediction with confidence – a general framework for predictive inference’, *Journal of Statistical Planning and Inference - Special Issue on Confidence Distributions*, **195**, 126-140.
- Fan, Y. and Liu, R. (2019) ‘Nonparametric tolerance tubes for functional data’, under revision.
- Liu, S., Liu, R. and Xie, M. (2019) ‘ $p$ -Value as the strength of evidence measured by confidence distribution’, submitted.
- Shen, J., Liu, R. and Xie, M. (2020) ‘ $i$ Fusion: Individualized Fusion Learning’, *Journal of the American Statistical Association*, **115**, 1251-1267.
- Luo, X., Dasgupta, T., Xie, M., and Liu, R. (2021) ‘Leveraging the Fisher randomization test using confidence distributions: inference, combination and fusion learning’, *Journal of Royal Statistical Society-B*, **83**, 777-797.
- Liu, D., Liu, R., Xie, M. (2022) ‘Nonparametric fusion learning: synthesize inferences from diverse sources using depth confidence distribution’, *Journal of the American Statistical Association*, **117**, 2086-2104.
- Fan, Y. and Liu, R. (2022) ‘Antipodal Reflection Depth (ARD) for multivariate and functional data and nonparametric outlier detection’, manuscript.
- Liu, R., Sun, X. and Xie, M. (2023) ‘Exact Multivariate Inference in Estimating Equations - an Approach by Data Depth and Confidence Distribution’, manuscript.

#### BOOK:

- Kariya, T. and Liu, R. (2003) “*Asset Pricing – Discrete Time Approach*”, Kluwer Academic Publishers.
- Liu, R., Serfling, R. and Souvaine, D. (2006) “*Data Depth: Robust Multivariate Analysis, Computational Geometry and Applications*”, *DIMACS Series, American Mathematical Society*.
- Liu, R., Strawderman, W. and Zhang, C. (2007) “*Statistical Inverse Problems: Tomography, Networks, Incomplete Data and Beyond*”, IMS Lecture Series Monograph.
- Liu, R. and McKean, J. (2016) “*Robust Rank-Based and Nonparametric Methods*”, Springer.

#### POSTER:

- Lehrer, P., Karavidas, M., Gara, M., Kotay, A., Diaz, E., Liu, R., Escobar, J. (2010) “Psychophysiological Treatment for Patients with Multiple Unexplained Physical Symptoms (MUPS) Citation Award, Conference of Applied Psychophysiology and Biofeedback- AAPB, San Diego.

#### SOFTWARE:

- Liu, R. and Teng, J. (2002) “*BootQC – bootstrap online quality control*”, an EXCEL-VBA software for online monitoring and thresholding of manufacturing or inspection data using bootstrap method.

#### MEMBERSHIP:

The American Statistical Association  
 The Institute of Mathematical Statistics  
 The Institute of Chinese Statistical Association  
 International Statistical Institute

#### SELECTED RECENT INVITED TALKS:

- 2024 E.L. Scott Lecturer, COPSS Award 2024 JSM, Portland, OR, August 2024
- Workshop on Statistical Learning, Keynote, U. Geneva, Switzerland, May 2024
- SC-ASA Palmetto lecturer, S. Carolina, March 2024
- 2023 JSM, Invited speakers, Toronto, Canada, August 2023
- 2023 EcoSta Conference, Keynote, Tokyo, Japan, August 2023
- The 9th International Forum on Statistics, Distinguished speaker, Beijing, China, July 2023
- Joint Conference on Statistics and Data Science, Distinguished speaker, Beijing, China, July 2023
- HKU 2023 Summer Workshop on Statistics and Data Analytics, Keynote, Hong Kong, July 2023
- U. Torino, U. Salento, Italy; U. Côte d’Azur, France - Colloquium speaker, May 2023

- Harvard U., Colloquium speaker, Boston, November 2022
- 2022 IMS Annual Meeting, Invited speaker, London, UK, June 2022
- UPATAT Conference, Keynote, Buffalo, May 2022
- 2022 Arnoff-Schloss Lecture, Carl H. Lindner College of Business, University of Cincinnati, April, 2022
- Workshop on Quantile Regression and Heterogeneous Data, Invited speaker, U. Miami, Feb. 2022
- 32nd Conf of Austro-Swiss Region of IBS, Keynote speaker, Salzburg, Austria, Sept 2021
- 2021 Chinese Institute of Probability & Statistics Annual Meeting and 30th South Taiwan Statistics Conference, Y.S. Chow Distinguished Lecture, Taiwan, Sept 2021
- 2021 JSM, Noether Award Lecture, Seattle, WA, August 2021
- SLDS, Keynote speaker, Irvine, May 2020 (postponed due to COVID)
- 2020 Stochastik-Tage, Keynote speaker, Dresden, Germany, March 2020 (postponed due to COVID)
- 2019 Korean Statistical Society Meeting, Keynote speaker, Seoul, S. Korea, Nov. 2019
- Quant Social Sci & Center for Stat & Machine Learning, Colloquium speaker, Princeton U., Sept. 2019
- 10th Int. Workshop on Simulation and Statistics, Keynote speaker, Salzburg, Austria, Sept. 2019
- JSM, Invited speaker, Denver, Colorado, July 2019
- EMS 2019, Palermo, Italy, July 2019
- Workshop ‘Statistical Methodology and Theory for Functional and Topological Data’, Invited participant and speaker, Oberwolfach, Germany, June 2019
- 2019 SDSS, Invited speaker, Bellevue, Washington, May 2019
- Banff Int. Research Station workshop, Invited participant and speaker, Banff, Canada, April 2019
- Dean’s Speaker Series in Statistics and Data Science, U. of Binghamton, March 2019
- Charles University, Invited seminar speaker, Prague, Czeck Republic, March 2019
- Bohrer workshop, Bohrer Lecture, UIUC, Illinois, Nov. 2018
- Deep Learning Workshop, Invited speaker, Georgian Tech, Atlanta, Georgia, Oct. 2018
- 2018 IMS-APRM, Plenary speaker, Singapore, July 2018
- IWAP 2018, Invited speaker, Budapest, Hungary, June 2018
- ISNPS2018, Plenary speaker, Salerno, Italy, June 2018
- Workshop ‘New Aspects of Statistics, Financial Econometrics, and Data Science’, Invited speaker, Stevanovich Center for Financial Mathematics, University of Chicago, May 2018
- Issac Newton Institute, Invited visitor and speaker, Cambridge, UK, March 2018
- Conference for 125th birth ann. of PC Mahalanobis, Keynote speaker, ISI, Kalkuta, India, Jan. 2018
- IISA conference, Invited speaker, Hyderabad, India, Dec. 2017
- International Statistics Conference, Plenary speaker, SXUFE, Shanxi, China, Dec. 2017
- CENISBS 2017, Plenary speaker, Vienna, Austria, August 2017
- Conference on Statistical Methods for Psychological and Educational Measurement, Invited speaker, Columbia University, New York, August, 2017
- 2017 Joint Statistical Meeting, Invited speaker, Baltimore, MD, July 2017
- 2017 MMR, Invited speaker, Grenoble, France, July 2017
- 3rd ECM conference, Invited speaker, Hong Kong, June 2017
- Workshop on High-D Statistical Modeling and Analysis in the Age of Big Data, Invited speaker, Beijing, China, May 2017
- International Statistical Institute - RSC Conference, Plenary speaker, Bali, Indonesia, March 2017
- ICSA Conference, Invited speaker, Shanghai, China, Dec. 2016
- International Conference on Ordered Data and Applications in Reliability and Survival Analysis, Plenary speaker, Hamilton, Canada, August 2016
- 2016 Joint Statistical Meeting, Invited speaker, Chicago, August 2016
- 2016 International Statistics Workshop, Invited speaker, Salzburg, Austria, July 2016
- 4th IMS-APRM Meeting, Distinguished lecturer, Hong Kong, June 2016
- 3rd International Conference of ISNPS, Plenary speaker, Avignon, France, June 2016
- 4th CISE Conference, Invited speaker, Palermo, Sicily, June 2016
- 2016 Joint Mathematical Meeting, Invited speaker, Seattle, January 2016
- 2015 Joint Statistical Meeting, Invited speaker, Seattle, August 2015
- 60th World Statistics Congress, Invited speaker, Rio de Janerio, July 2015



- 2015 ISNPS, Honorary keynote speaker, Graz, Austria, July 2015
- IMS-China International Statistical Conference, Invited speaker, Kunming, China, July, 2015
- International FocuStat Workshop on Confidence Distributions and Related Themes, Invited speaker, U. Oslo, Norway, May 2015
- Invited seminar speaker, Research Group of Machine Learning Methods, Faculty of Math & CS, Jagiellonian University, Krakow, Poland, May 2015
- Int. Conf. on Robust Rank-Based and Nonpar. Methods, Keynote speaker, Kalamazoo, MI, Apr. 2015
- Invited seminar speaker, Department of Statistics, U. Michigan, April 2015
- Fourth Princeton Day of Statistics, Invited speaker, Princeton U., October 2014
- XIII CLAPEM Latin American Congress on Probability & Mathematical Statistics, Special invited speaker, Catagena, Colombia, Sept 2014
- SINAPE (Simpósio Nacional de Probabilidade e Estatística), Keynote speaker, Natal, Brazil, July 2014
- 2014 International Indian Statistical Association Conference, Invited speaker, Riverside CA, July 2014
- IMS-ASC 2014, Invited speaker, Sydney, Australia, July 2014
- 3rd IMS-APRM, Invited speaker, Taipei, Taiwan, July 2014
- 2014 International Workshop of Applied Probability, Invited speaker, Antalya, Turkey, June 2014
- 2nd INPS, Invited speaker, Cadiz, Spain, June 2014
- 8th Annual Probability and Statistics Day, Keynote speaker, UMBC, Maryland, April 2014
- Int. Conf. on Financial Econometrics & Engineering, invited speaker, Tokyo, Japan, March 2014
- Celebration of Statistics, Florida State University, Featured speaker, Tallahassee, FL, November 2014
- The 59th World Statistics Congress, Invited speaker, Hong Kong, August 2013
- The Joint Meeting of IASC Satellite & IASC-ARS. Invited speaker, Seoul, Korea, August 2013
- The 29th European Meeting of Statisticians, Invited speaker, Budapest, Hungary, July 2013
- Invited colloquium speaker, Department of Statistics, Yale University, September 2012
- 2012 Joint Statistical Meeting, Invited speaker, San Diego, August 2012
- 8th World Congress in Probability & Statistics, Invited speaker, Istanbul, Turkey, July 2012
- 2nd IMS-APRM Conference, Invited speaker, Tokyo, Japan, July 2012
- 2012 ISBIS, Invited speaker, Bangkok, Thailand, June 2012
- Stieltjes Professor Lectures on "Advances in nonparametric multivariate analysis & combining inferences", Tilburg, The Netherlands, October 2011
- 2011 Joint Statistical Meeting, Invited speaker, Miami, August 2011
- Keynote speaker, 2011 International Congress On Robust Statistics, Valladolid, Spain, July 2011
- Invited speaker, Inst de Mathématiques de Toulouse, U. Paul Sabatier, Toulouse, France, June 2011
- WONDER (Wiskunde Onderzoekschool Nederland), Invited speaker, Tilburg, Netherlands, April 2011
- Invited seminar speaker, VU University in Amsterdam, April 2011
- Workshop on Level Sets and Depth Contours, invited speaker, Oberwolfach, Germany, February 2011
- 2010 ICCM, Invited speaker, Beijing, China, December 2010
- 6th IMT-GT International Conference on Mathematics, Statistics & Its Applications, Keynote speaker, Kuala Lumpur, Malaysia, November 2010
- 2010 Joint Statistical Meeting, Invited speaker, Vancouver, Canada, August 2010
- 2010 ISBIS, Invited speaker, Portoroz, Slovenia, July, 2010
- Conference on Nonparametric Statistics & Stat. Learning, Invited speaker, Columbus, Ohio, May 2010
- Hartley Memorial Lecturer, 3 special stat lectures to university audience, Texas A&M U, April 2010
- International Conference on Nonlinear Time Series: Threshold Modelling and Beyond, invited speaker, Hong Kong, December 2009
- Workshop on Statistics and Its Interface, invited speaker, Hong Kong, December 2009
- Seminar series on financial math, Invited speaker, Inst of Applied Math, U Krakow, Poland, Nov. 2009
- The First IMS Asia Pacific Rim Meeting, Invited speaker, Seoul, S. Korea, July 2009
- IMS-China International Conf. on Statistics & Probability, Invited speaker, Weihai, China, July 2009
- Invited seminar speaker, Université Paris 11, Orsay, Lab de Mathématique, Paris, France, May 2009
- Swiss Statistics Seminars, Invited speaker, Bern, Switzerland, April 2009
- Invited seminar speaker, Technische Universität München, Munich, Germany, November 2008
- 2008 ISBIS, Invited speaker, Prague, Czech Republic, July 2008

- IMS-China International Conf on Statistics & Probability, Invited speaker, Hangzhou, China, June 2008
- Conference on Nonparametric Statistics and Mixture Models, Plenary speaker, Penn State U, May 2008
- Plenary Speaker, “Frontiers in Applied and Computational Mathematics”, NJIT, May 2008
- Invited seminar speaker, Stanford University, Yale University, University of Chicago, November 2007
- 2007 Conference of ISBIS, Invited speaker, Azores, Portugal, August 2007
- 5th Conference on Extreme Value Analysis, Invited speaker, Bern, Switzerland, July 2007
- Xth CLAPEM (Latin American Congress of Prob. & Math Stat), Keynote Lima, Peru, Feb 2007
- Workshop ‘Sampling for Compliance’, National Academies Keck Center, Invited speaker, Nov. 2006
- Conf “Advances in Statistics”, Università Ca’ Foscari Venezia, Invited speaker, Venice, Italy, Sept. 2006
- Invited seminar series, Università degli Studi di Padova, Italy, September 2006
- 2006 Joint Statistical Meeting, Invited speaker, Seattle, WA, August 2006
- Workshop on Frontiers of Statistics, Invited speaker, Princeton University, May 2006
- Joint Meeting of IMS/CSPC, Invited speaker, Beijing, PRC, July 2005
- Inaugural Conference, Center of Statistical Science, Invited speaker, Chinese Academy of Sciences, Beijing, PRC, June 2005
- 2005 Nonparametric workshop, Invited speaker, Univ. of Tampere, Finland, June 2005
- Invited Speaker: Universidad de Valladolid; Universidad de Cantabria, Spain, May 2005
- Workshop on “Mathematical and Statistical Methods for Visualization and Analysis of High Dimensional Data”, Invited speaker, MSRI, Berkeley, December 2004
- Tilburg U., Centre of Economic Research, Invited colloquium, Tilburg, the Netherlands, Nov. 2004
- 1st South American Regional Conference in Probability & Statistics, Invited inaugural speaker, Buenos Aires, Argentina, September 2004
- 2004 Joint Statistical Meeting, Invited speaker, Toronto, Canada, August 2004
- 6th World Congress of the Bernoulli Society for Math Statistics and Prob., Barcelona, Spain, July 2004
- Invited seminar speaker: University of Cologne, Germany; University of Rome, La Sapienza; University of Pisa and ISTI (CNR), Italy, April-June 2004
- Univ. of Dortmund, Data Mining Workshop, Invited speaker Germany, April 2004
- SAMSI, Workshop on Data Mining, Invited speaker, Research Triangle, NC, Feb. 2004
- International Stat. Institute 54th Session, Invited speaker, Berlin, Germany, August 2003
- International Conf. on Robust Statistics, Invited speaker, Antwerp, Belgium, July 2003
- Societa Italiana Statistica 2003, Invited speaker, Naples, Italy, June 2003
- The European Statistical Conference, Invited speaker, Prague, Czeck, August 2002
- The 4th International  $L_1$  Conf., Invited speaker, Neuchatel, Switzerland, August 2002
- Nonparametric Statistical Conference, invited speaker, Crete, Greece, July 2002
- 2nd International Conf. on Robust Statistics, invited speaker, Vorau, Austria, July 2001
- Workshop on Nonparametrics, invited speaker, University of Bern, Switzerland, July 2001