

REGINA Y. LIU
CURRICULUM VITAE

ADDRESS: Department of Statistics & Biostatistics
Rutgers, the State University of New Jersey
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EDUCATION: Ph.D. Statistics, Columbia University, New York

POSITIONS:

7/05–present Chair, Department of Statistics & Biostatistics, Rutgers University
7/01–present Distinguished Professor, Department of Statistics & Biostatistics, 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:

5-6/98 Special Invited Professor, Universität Bern, Switzerland
6/93 Invited Researcher, Steklov Mathematical Institute, Moscow, Russia
5/92 Invited Research Fellow, Math. Science Research Institute, Berkeley
12/90; 6-7/91 Invited Research Fellow, Sonderforschungsbereich, Universität Heidelberg, Germany
11/86-1/87 Visiting Research Fellow, Department of Statistics, U.C. Berkeley

HONORS & AWARDS:

Elected Fellow: *American Statistical Association*
Elected Fellow: *Institute of Mathematical Statistics*
Elected Member: *International Statistical Institute*
Recipient, 2011 Stieltjes Professor, Thomas Stieltjes Institute for Mathematics, The Netherlands
2010 Hartley Memorial Lecturer, Texas A&M University
Fulbright Scholar, Spain, 2008
Best Paper Award for Feature Application for 2000-2001, *Institute of Industrial Engineers*
IMS Medallion Lecturer, *Institute of Mathematical Statistics*, 1997
NSF National Faculty Awards for Outstanding Women Scientists and Engineers, 1991

RECENT RESEARCH GRANTS:

National Science Foundation (2003-2006, 2004-2007, 2007-2010, 2010-2014, 2015-2018)
National Institutes of Health (2005-2010)
National Security Agency (2004-2005, 2005-2007, 2011-2013, 2014-2015)
Federal Aviation Administration (2000-2003, 2003-2006, 2008-2014)

EDITORIAL ACTIVITIES:

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 techniques, Extreme statistics, Statistical quality control, Aviation risk management

SELECTED RECENT SERVICE TO THE PROFESSION:

Program Chair, 2017 Joint Statistical Meeting, Baltimore, 2017
Organizer & Chair, Invited Session, 2015 Joint Statistical Meeting, Seattle, WA, 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, 3rd IMS Asia Pacific Rim Meeting, Taipei, Taiwan, 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, Annual Joint Statistical Meeting, Vancouver, Canada, 2010
Organizer & Chair, Invited Sessions, The 8th ICSA Conference, Guangzhou, China, 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, IMS Special Lectures Committee, 2007-2008
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, IMS Special Lectures Committee, 2005-2008
Member, *DIMACS* Executive Committee & Council, 2005-
Chair, IMS Nominating Committee, 1992-1993; 2004-2005
Organizer, Invited session, JSM, Toronto, Canada, August 2004
Organizer, Invited session, 7th Purdue Symposium, IN, June 2003
Organizer, Invited session, ASA QPR Conference, NY, May 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
Chair and organizer, Invited session, IMS annual meeting, Utah, July 1997
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:

Chair, Department of Statistics & Biostatistics, Rutgers University, 2005–

Member, SAS Bylaws Committee, Rutgers University, 2006
Seminar Chair, Department of Statistics, Rutgers University, 1997-98, 2004
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, expected)

PUBLICATIONS:

Liu, R. and Van Ryzin, J. (1984) "Maximal deviation of a hazard date 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" *Scand. 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*. Y. Dodge, Ed., pp.279-294. 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*, R. LePage and L. Billard, Eds., 225-248, 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*, Osaka, Japan, October 1994, pp. 139-158.
- Liu, R. (1995) "On inspection errors and continuous sampling plans" Technical report, Rutgers University.
- 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*, ed. P. Wilrich and H. Lenz, Springer-Verlag, **5**, 102-114.
- 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. (1999) *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" (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*, ed. Y. Dodge, Birkhäuser, Basel, 379-392.
- 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*, eds. M. Akritas and D. Politis, Elsevier Science, 155-168.

- 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*, ed. D. Banks, et al., Springer, pp. 495-510.
- 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" under revision.
- 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 and Applications, DIMACS Series, AMS*, 17-36.
- 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", under revision.
- 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*, **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**, 140-1465. fff
- 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*, to appear.
- Fan, Y. and Liu, R. (2015) "Antipodal Reflection Depth (ARD) for multivariate and functional data and nonparametric outlier detection", submitted.
- Liu, D., Liu, R. and M. Xie (2015) "Fusion learning: efficient nonparametric combining inferences from diverse sources", in preparation.

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, AMS*.
- Liu, R., Strawderman, W. and Zhang, C. (2007) “*Statistical Inverse Problems: Tomography, Networks, Incomplete Data and Beyond*”, IMS Lecture Series Monograph.

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.

BOOK REVIEWS:

- Liu, R. (1996) Review of “Practical Engineering Statistics” by D. Schiff and R. D’Agostino, pub. by John Wiley & Sons, Inc. *IIE Transactions on IE Research*
- Liu, R. (1989) Review of “Frontiers in Statistical Quality Control, #3,” Ed. by H. Lenz, G. Wetherill and P. Wilrich. *Technometrics* **31**, 488-491.

MEMBERSHIP:

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

REFEREE FOR:

Annals of Statistics, IIE Transactions on Operations Engineering, *IEEE*
Journal of the American Statistical Association, Technometrics,
Journal of Statistical Inference and Planning, *TEST*, Sankhya A
Journal of Multivariate Analysis, Statistica Sinica
Annals of the Institute of Statistical Mathematics (Japan)
National Security Agency Research Office, *NSERC*, CANADA
National Science Foundation, USA, Army Research Office, Austrian Science Fund (FWF)

SELECTED RECENT INVITED TALKS:

- 4th IMS-APRM Meeting, Distinguished lecture, Hong Kong, June 2016
- 3rd Conference of the International Society of Non-Parametric Statistics, ISNPS, Special invited speaker, Avignon, France, June 2016
- 2015 Joint Statistical Meeting, Invited speaker, Seattle, August 2015
- 60th World Statistics Congress, Invited speaker, Rio de Janeiro, 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
- International Conference on Robust Rank-Based and Nonparametric Methods, Keynote speaker, Kalamazoo, MI, April 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, 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
- International Conference on Finance and Financial Econometrics & Engineering, invited speaker, Tokyo, Japan, March 2014
- 2013 NTCS ISRG Workshop on Statistics, Hsin-Chu, Taiwan, December 2013
- 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 (International Symposium on Business and Industrial Statistics), Invited speaker, Bangkok, Thailand, June 2012
- Invited seminar speaker, School of Industrial and System Engineering, Georgia Institute of Technology, March 2012
- Invited colloquium speaker, Department of Statistics, University of Georgia, March 2012
- Invited seminar speaker, Department of Genetics, Rutgers University, December 2011.
- Stieltjes Professor Lectures on "Advances in nonparametric multivariate analysis & combining inferences", Tilburg, The Netherlands, October 2011
- Invited seminar speaker, North Carolina State University, September 2011
- 2011 Joint Statistical Meeting, Invited speaker, Miami, August 2011
- Keynote speaker, 2011 International Congress On Robust Statistics, Valladolid, Spain, July 2011
- Invited seminar speaker, Institut de Mathématiques de Toulouse, Université Paul Sabatier, Toulouse, France, June 2011
- WONDER - Wiskunde Onderzoekschool Nederland, Invited speaker, Tilburg, The Netherlands, April 2011
- Invited seminar speaker, VU University in Amsterdam, April 2011
- Workshop on Level Sets and Depth Contours in High Dimensional Data, 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 (International Symposium on Business and Industrial Statistics), Invited speaker, Portoroz, Slovenia, July, 2010
- Conference on Nonparametric Statistics & Stat. Learning, Invited speaker, Columbus, Ohio, May 2010
- Hartley Memorial Lecturer, Deliver three special lectures in statistics to university-wide audience, Texas A&M University, Texas, April 2010
- Seminars on Statistical Learning, Invited speaker, National Univ. of Taiwan, Taipei, December 2009
- 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

- Invited speaker, seminar series on financial mathematics, Institute of Applied Mathematics, University of Krakow, Poland, November 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 (International Symposium on Business and Industrial Statistics), Invited speaker, Prague, Czech Republic, July 2008
- Invited speaker, Workshop on Industrial Statistics, Tsing-Hua University, Taiwan, June 2008
- Invited seminar speaker, School of Management, Fudan University, Shanghai, China, June 2008
- Invited speaker, IMS-China International Conference on Statistics and Probability, Hangzhou, China, June 2008
- Plenary speaker, Conference on Nonparametric Statistics and Mixture Models, Penn State University, PA, May 2008
- Plenary Speaker, “Frontiers in Applied and Computational Mathematics”, NJIT, May 2008
- Invited seminar speaker, Stanford University, CA, December 2007
- Invited seminar speaker, Yale University, New Haven, November 2007
- 2007 Conference of ISBIS (International Society for Business and Industrial Statistics), Invited speaker, Azores, Portugal, August 2007
- 5th Conference on Extreme Value Analysis, Invited speaker, Bern, Switzerland, July 2007
- Invited seminar speaker, University of Chicago, April 2007
- Xth CLAPEM (Latin American Congress of Probability and Mathematical Statistics), Plenary speaker, Lima, Peru, February 2007
- Workshop on Sampling for Compliance, CATS, National Academies Keck Center, Invited speaker, November 2006
- Conference “New Advances in Statistics”, Università Ca’ Foscari Venezia, Invited speaker, Venice, Italy, September 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
- ASA NJ-Chapter 27th Spring Symposium, Invited speaker, May 2006
- Invited seminar speaker: Columbia University; UC Riverside, Feb., May 2006
- Distinguished Lecture Series by Women in the Mathematical Sciences, invited speaker, Iowa State University, April 2006
- Lucent Bell-Labs, Invited seminar speaker, December 2005
- 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 University, Centre of Economic Research, Invited colloquial speaker, Tilburg, the Netherlands, November 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
- Conf. of International Federation of Classification Societies, Distinguished speaker, Chicago, July 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
- University of Naples, Invited seminar speaker, Naples, Italy, June 2003
- Quality and Productivity Research Conference, Invited speaker, IBM, Yorktown Heights, NY, May 2003
- Nonparametric Statistical Workshop, invited speaker, Tallahassee, FL, January 2003
- Workshop on Computational Geometry, Invited speaker, DIAMCS, Rutgers University, November 2002
- 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
- The IMS Meeting, invited speaker, Cleveland, OH, June 2002
- The Air Operator Expert Panel Meeting, invited speaker, Cambridge MA, May 2002
- The 2002 Annual IIE/IERC Meeting, invited speaker, Orlando, Florida, May 2002
- Invited seminar speaker, Department of Statistics, Texas A&M, October 2001
- 2nd International Conf. on Robust Statistics, invited speaker, Vorau, Austria, July 2001
- Workshop on Nonparametrics, invited speaker, University of Bern, Switzerland, July 2001
- Invited seminar speaker, UCLA & UC Santa Barbara, CA, January 2001
- Univ. of Trieste, statistical seminar series, invited speaker, Trieste, Italy, October 2000
- Aviation Safety Research Meeting, invited speaker, National Aerospace Laboratiry NLR, Amsterdam, the Netherlands, October 2000
- Aviation Safety and Risk Management Workshop, invited speaker, Dutch Civil Aviation, Hoofdorf, the Netherlands, October 2000
- Aviation Quality Assurance meeting, invited speaker, KLM Royal Dutch Airlines, Schiphol, the Netherlands, October 2000
- 2000 World Congress of Non-Linear Analysis, invited speaker, Catania, Italy, July 2000
- Joint Research Conference on Statistics in Quality, Industry & Technology, invited speaker, Seattle, Washington, June 2000
- 4th GAIN (Global Aviation Information Network) World Conference, Paris, France, June 2000
- Invited seminar speaker, University of Venice, Venice, Italy, May 2000
- Invited seminar speaker, University of Naples, Italy, May 2000
- XL Congress of the Society of Italian Statisticians, Invited speaker, Florence, Italy, April 2000
- Advances in Aviation Safety Conference 2000, Society of Automotive Engineers, invited speaker, Florida, April 2000
- INFORMs Annual Meeting, invited Speaker, Philadelphia, November 1999
- 1999 Joint Statistical Meeting, invited speaker, Baltimore, MD, August 1999
- Conference “Advances in Nonparametric Statistics”, invited speaker, University of Florida, Gainesville, January 1999
- Invited Panel discussant for EURANDOM meeting on “Directions for applied statistics”, Leiden, the Netherlands, December 1998
- Workshop on “Statistical Process Control”, invited speaker, Lorenz Center, University of Leiden, the Netherlands, December 1998
- Joint Seminar of EURANDOM and Eindhoven Technology University, invited speaker, Eindhoven, the Netherlands, December 1998
- Clifford Conference, invited speaker, Tulane University, New Orleans, October 1998
- 3eme Cycle de Statistique de la Suiss Romande, invited speaker, Switzerland, June 1998
- Purdue Symposium, invited speaker, Purdue University, June 1998
- Special invited professor, deliver four one-hour lectures on “Advances in Statistical Quality Control”, Universität Bern, Switzerland, May-June 1998
- Workshop on Resampling, invited speaker, CRM, Montreal, Canada, September, 1997
- IMS 1997 Annual Meeting, Special Invited Lecture, Anaheim, CA, August 1997
- The 3rd International Conference on L_1 Statistics and Related Methods, invited speaker, Nuechâtel, Switzerland, August 1997

- Seminario Internacional Sobre Estimación Funcional, Instituto de Matemáticas, Universidade de Santiago de Compostela, four invited lectures on “Data Depth for a Systematic Nonparametric Multivariate Analysis”, Santiago de Compostela, Spain, March 1997
- Princeton University, Invited seminar speaker, Engineering School, October 1996
- 2nd World Congress of Non-Linear Analysis, invited speaker, Athens, Greece, August 1996
- Sydney International Statistical Congress, invited speaker, Sydney, Australia, July 1996
- Conference on “Nonparametric Statistical Methods: The Road Ahead”, Invited speaker, Canberra, Australia, June 1996
- Hitotsubashi University, International Seminar Speaker Series, Tokyo, Japan, June 1996
- Conference on “Empirical Processes: Theory and Applications,” Mathematisches Forschungsinstitut, invited speaker, Oberwolfach, Germany, October 1995
- 3eme Cycle de Statistique et de Probabilité Applique de la Suisse Romande, Villars, Switzerland. Deliver four special invited lectures on “Nonparametric Statistics: Methods Based on Resampling and Data Depth.” March 1995
- The Vth International Workshop on “Intelligent Statistical Quality control”, Osaka, Japan, invited speaker, September 1994
- 1994 International Research Conference in Lifetime Models in Reliability and Survival Analysis, invited speaker, Harvard University, Boston, June 1994
- Invited seminar speaker: University of Chicago; University of Edinburgh, Scotland; Purdue University; Cornell University; McGill University; University of Wisconsin, February-May 1994
- Austrian-Swiss International Biometrical Conf., Innsbruck, Austria, invited Speaker, September 1993
- Steklov Mathematical Institute, Moscow, Russia, invited Seminar speaker, June 1993
- Universität Bern, Switzerland, Workshop on Mathematical Statistics, invited Speaker, September 1993
- Columbia University, Department of Statistics, Invited seminar speaker, 1993
- The Second International Conference on L_1 Statistical Analysis, Neuchâtel, Switzerland, invited speaker, August 1992
- Universität Bern, Switzerland, Workshop on Nonparametric Inference, invited speaker, August 1992
- *MSRI*, Berkeley, CA, Invited seminar speaker, May 1992
- Universität Heidelberg, Germany, Sonderforschungsbereich, Invited seminar speaker, June 1991
- Johns Hopkins University, Dept. of Biostatistics, School of Public Health, Invited seminar speaker, 1991
- Yale University, Department of Statistics, Invited seminar speaker, 1991
- Universität Heidelberg, Germany, Institut für Angewandte Mathematik, Math. Stat. Workshop, Invited speaker, December 1990
- Katholische Universität Eichstätt, Germany, Invited colloquium speaker, December 1990
- IMS Annual Meeting, invited speaker, Baltimore, MD, April 1990
- Carnegie-Mellon University, Department of Statistics, Seminar speaker, 1990
- Conference on Asymptotic Methods for Computer-Intensive Procedures in Statistics, Invited speaker, Mathematisches Forschungsinstitut, Oberwolfach, Germany, December 1990.