

Curriculum Vitae

Peihua Qiu

Date: August 1, 2019

Education:

1993-1996 PhD in Statistics/Biostatistics, University of Wisconsin - Madison
1992-1993 MS in Statistics, University of Georgia
1986-1989 MS in Statistics, Fudan University, China
1982-1986 BS in Mathematics, Fudan University, China

Employment:

2018-present Director, Biostatistics and Data Management Core, UF Claude D. Pepper Older Americans Independence Center, UF Institute of Aging
2018-present Affiliate Professor, Department of Statistics, University of Florida
2016-present Director, Biostatistics and Epidemiology Research Design, UF Clinical and Translational Science Institute (CTSI)
2013-present Tenured Full Professor and Founding Chair, Department of Biostatistics, College of Public Health and Health Professions and College of Medicine, University of Florida (UF)
2016-2019 Joint Appointment (10% FTE), Department of Surgery, UF College of Medicine
2007-2013 Tenured Full Professor, School of Statistics, University of Minnesota
2002-2007 Tenured Associate Professor, School of Statistics, University of Minnesota
1998-2002 Assistant Professor, School of Statistics, University of Minnesota
1996-1998 Senior Research Consulting Statistician, Biostatistics Center, Ohio State University

Short Research Visits:

06/2014-07/2014 National Center for Theoretical Sciences, Taiwan
01/2012-03/2012 University of Melbourne, Australia
08/2011-08/2011 University of Texas at Houston
05/2008-06/2008 Nankai University, China
07/2006-07/2006 National Taiwan University, Taiwan
06/2005-06/2005 Universite Catholique de Louvain, Belgium
09/2004-11/2004 Australian National University, Australia
01/2004-01/2004 Universite Catholique de Louvain, Belgium
08/2003-09/2003 Universite catholique de Louvain, Belgium
05/2002-06/2002 Australian National University, Australia

Awards, Honors and Recognitions:

1. Dean's Citation Paper Award, 2019, College of Public Health and Health Professions, University of Florida (for the paper: Qiu, P., Zi, X., and Zou, C. (2018), "Non-parametric Dynamic Curve Monitoring," *Technometrics*, **60**, 386–397).

2. Plenary Speaker, ISSAT International Conference on Data Science in Business, Finance and Industry, July 3–5, 2019, Da Nang, Vietnam.
3. The paper Qiu et al. (2010, *Technometrics*) was chosen by the 60th anniversary virtual issue of the flagship statistical journal *Technometrics* as one of the 35 classic articles published in the journal during the past 60 years.
4. University Term Professor (salary supplement for 3 years), 2018, University of Florida.
5. Special invited speaker (with a 45-minute presentation), The 2017 IISA International Conference on Statistics, December 27–30, 2017, Hyderabad, India.
6. Plenary Speaker (90-minute presentation followed by 90-minute discussions), 2017 Stu Hunter Research Conference, March 5-8, 2017, Copenhagen, Denmark.
7. Dean's Citation Paper Award, 2016, College of Public Health and Health Professions, University of Florida (for the paper: Liang, F., Song, Q., and Qiu, P. (2015), "An Equivalent Measure of Partial Correlation Coefficients for High Dimensional Gaussian Graphical Models," *Journal of the American Statistical Association*, **110**, 1248–1265).
8. Mini-Plenary Speaker, The South African Statistical Association's 57th Annual Conference, November 29 - December 2, 2015, University of Pretoria, South Africa.
9. Dean's Citation Paper Award, 2015, College of Public Health and Health Professions, University of Florida (for the paper: Park, K.Y., and Qiu, P. (2014), "Model Selection and Diagnostics For Joint Modeling Of Survival And Longitudinal Data With Crossing Hazard Rate Functions," *Statistics in Medicine*, **33**, 4532–4546).
10. Keynote speaker, 2nd International Symposium on System Informatics and Engineering, July 8-9, 2013, Xi'an, China.
11. *Technometrics* invited speaker with discussions, 2012 INFORMS annual meeting, October 14-17, 2012, Phoenix, AZ.
12. Plenary speaker, The 4th International Conference on Computational Intelligence and Software Engineering (CiSE 2012), December 14-16, 2012, Wuhan, China.
13. Plenary speaker, International Conference on Quality and Reliability Engineering, December 20-22, 2011, Bangalore, India.
14. Plenary speaker, 5th WSEAS International Conference on COMPUTER ENGINEERING and APPLICATIONS (CEA '11), January 29-31, 2011, Puerto Morelos, Mexico.
15. Elected Fellow, 2010, Institute of Mathematical Statistics.
16. Plenary speaker, Annual Meeting of the German Statistical Society, September 14 - 17, 2010, Nuremberg, Germany.

17. Featured speaker of the *Technometrics* invited session with discussions, Joint Statistical Meetings, July 31 - August 5, 2010, Vancouver, Canada.
18. Elected Fellow, 2009, American Statistical Association.
19. Elected member, 2009, International Statistical Institute.
20. Special invited speaker (with a 50-minute presentation), The Winter 2009 Canadian Mathematical Society meeting, December 5-7, 2009, Windsor, Canada.
21. The paper titled "Distribution-free multivariate process control based on log-linear modeling" by P. Qiu, published in *IIE Transactions*, **40**, 2008, 664–677, was featured by an article in the *Industrial Engineer* magazine, **40**, 2008, 53–54.
22. Inaugural Ziegel prize winner, sponsored by *Technometrics*, 2007 (for the book *Image Processing and Jump Regression Analysis*).
23. Marquis Who's Who in America, 2003-2007, 2012-2013; Marquis Who's Who in American Education, 2006, 2007.
24. Faculty Sabbatical Supplement Awards, 2004/2005, 2011/2012, College of Liberal Arts, University of Minnesota.
25. *Technometrics* invited speaker, 45th Annual Fall Technical Conference, October 18-19, 2001, Toronto, Canada.
26. Single Semester Leave Awards, Fall 2001, Fall 2008, College of Liberal Arts, University of Minnesota.
27. Best paper winner, the 5th International Statistical Institute paper competition for young statisticians, Cairo, Egypt, September 1991.
28. Winner of the 1990 UAP Mathematical Award, April 1990, Fudan University, China.

Research Grants:

1. PI, "Longitudinal Modelling and Sequential Monitoring of Image Data Streams," NSF, DMS-1914639, amount: \$180,000, grant period: 08/01/2019-07/31/2022 (This is a single-investigator grant).
2. Co-I, "Evaluation of an Adaptive Intervention for Weight," NIH, R01DK119244, PI: Kathryn Ross, amount: \$2,996,032, grant period: 7/1/19-3/31/2024 (10% FTE plus a 50% RA each year).
3. Director, Biostatistics and Epidemiology Research Design (BERD), National Center for Advancing Translational Sciences of the National Institutes of Health under University of Florida Clinical and Translational Science Award, U54 TR001427-05, PI: David Nelson, \$29 million, grant period: 2019-2024 (about \$280K for the core and 10% FTE for me each year).

4. Co-I, "RadTox: Measuring Radiation Toxicity Using Circulating DNA," NIH, PO# 18-100, PI: Aiguo Zhang, amount: \$1,999,984, grant period: 9/17/2018- 9/16/2020 (10% FTE plus 50% Post-Doc each year).
5. Director, Biostatistics and Data Management Core (RC3), Claude D. Pepper Older Americans Independence Center, NIH, P30AG028740, PI: Marco Pahor, amount: \$1,023,397 (1st year), grant period: 04/01/2017-03/31/2022 (about \$90K for the core and 8% FTE for me each year since 04/2018).
6. Biostatistician, "A Multipotential Mitigation Agent for Gastrointestinal Syndrome," NIH, HHSN272201700008C, PI: Paul Okunieff, amount: \$4,494,880, grant period: 11/1/2017- 1/31/2020 (10% FTE plus 25% RA each year).
7. Co-I, "Identification and Prediction of High-Risk Periods for Regain After Weight Loss", NIH, R21DK109205, PI: Kathryn Ross, grant period: 09/07/2016-09/06/2019 (5% FTE plus 50% RA, year 1; 3% FTE plus 25% RA, year 2).
8. Co-PI, "Statistical Inference for Biomedical Big Data: Theory, Methods and Tools," NSF, DMS-1703077, amount: \$20,000 (this grant is for sponsoring a workshop in biostatistics during April 7-8, 2017 at UF Department of Biostatistics), PI: Faming Liang.
9. Biostatistical consultant, "Food Assistance, Diet, and Body Weight Status among WIC Eligible Children," NIH, R03 HD090387-01, PI: Harry Zhang (School of Community and Environmental Health, Old Dominion University), \$155,000, grant period: 12/08/2016-12/31/2018 (\$6,000 for my service).
10. Site-PI, "Equivalent Partial Correlation Methods for Integrative Genetic Network Analysis," NIH, 1R01GM117597, PI: Faming Liang, amount: \$1,042,460, grant period: September 1, 2015 - May 31, 2019 (15% FTE during 2015-2017 and about \$110K during 2018-2019).
11. Director, Biostatistics and Epidemiology Research Design (BERD), National Center for Advancing Translational Sciences of the National Institutes of Health under University of Florida Clinical and Translational Science Award UL1TR001427, PI: David Nelson, \$17.5 million, grant period: 2015-2019 (about \$280K for the core and 10% FTE for me each year).
12. PI, "New Methods for Sequential Monitoring of Longitudinal Patterns," National Science Foundation, DMS-1405698, amount: \$120,000, grant period: July 1, 2014 - August 15, 2018 (This is a single-investigator grant).
13. Co-I, "Southeast Resource Center for Integrated Metabolomics (SECIM)," NIH, 1U24-DK097209-01A1, PIs: A.S. Edison and R.A. Yost, UFL, \$9,999,524, 09/01/2013 - 08/31/2018 (10% FTE).
14. Co-I, "Associations between Ambient Air Pollution and Adverse Birth Outcomes in Florida," NIH, 5K01ES019177, PI: X Xu, Department of Epidemiology, UFL, \$610,145, 12/08/2011 - 11/30/2016 (3% FTE in the last 3 years).

15. PI, "Intensity-Based Image Registration and 3-D Image Denoising," National Science Foundation, DMS-1007506, amount: \$150,000, grant period: August 1, 2010 - July 31, 2013 (This is a single-investigator grant).
16. Co-PI, "Quantifying children's emotions with the emotion intensity-linkage function model," NIH, 5R01-HD055343, PI: Professor Michael Potegal, Department of Pediatrics, University of Minnesota Medical School, amount: \$906,668, grant period: September 30, 2008 - July 31, 2011, (28% FTE plus 50% RA each year).
17. PI, "Statistical Analysis of Image Restoration and Its Applications in Magnetic Resonance Imaging," National Science Foundation, DMS-0706082, amount: \$140,000, grant period: July 1, 2007 - June 30, 2011 (This is a single-investigator grant).
18. PI, US - China research collaborations, National Science Foundation, DMS-0721204, amount: \$39,996 (from US NSF) plus \$30,000 Chinese Yuan (from Chinese NSF), grant period: August 1, 2007 - July 31, 2008.
19. PI, "Image Segmentation for cDNA Microarray Data and Jump Preserving Surface Estimation," National Science Foundation, DMS-0406020, amount: \$50,000, grant period: August 1, 2004 - July 30, 2007 (This is a single-investigator grant).
20. Co-PI, "Flushing-related forehead temperature as a measure of anger intensity," Minnesota Medical Foundation, amount: \$5,000, grant period: 09/01/05-08/31/06. (Note: This grant is mainly for buying some devices to perform the study supported by the UMN Grant-in-Aid grant listed in the next item.)
21. Co-PI, "Flushing-related forehead temperature as a measure of anger intensity," Grant-in-Aid of Research, Artistry and Scholarship, University of Minnesota, amount: \$29,922, grant period: January 1, 2005 - June 30, 2006. (Note: This grant is mainly for supporting a one-year 50%-FTE RA in statistics.)
22. Co-PI, "Quantifying the time course of tantrum anger," NIH, R21, PI: Michael Potegal, Department of Pediatrics, University of Minnesota Medical School, amount: \$370,557, grant period: July 1, 2004 - June 30, 2006, (25% FTE plus a one-year 50% RA in statistics).
23. PI, "Image reconstruction by local smoothing techniques," National Security Agency, amount: \$38,899, grant period: March 5, 2004 - March 4, 2006 (This is a single-investigator grant).
24. Travel grant, Summer 2003, \$500, Office of International Programs, University of Minnesota.
25. PI, "Two-dimensional jump regression analysis," Grant-in-Aid of Research, Artistry and Scholarship, University of Minnesota, amount: \$15,908, grant period: July 1, 2000 - June 30, 2002.

26. Biostatistician, Design and Analysis Core, Transdisciplinary Tobacco Use Research Center (TTURC), National Cancer Institute, amount: \$9,227,445, grant period: September 30, 1999 - September 29, 2004, (20% FTE in the first year).

Research Monographs:

1. Qiu, P. (2014), *Introduction to Statistical Process Control*, Boca Raton, FL: Chapman & Hall/CRC.
2. Qiu, P. (2005), *Image Processing and Jump Regression Analysis*, New York: John Wiley & Sons (Inaugural Ziegel prize winner, sponsored by *Technometrics*, 2007).

Refereed Book Chapters:

3. You, L., and Qiu, P. (2019), "A Nonparametric Control Chart for Dynamic Disease Risk Monitoring," Springer.
4. Yang, K., and Qiu, P. (2019), "BCEWMA: A New and Effective Biosurveillance System for Disease Outbreak Detection," Springer.
5. Kang, Y., and Qiu, P. (2019), "Nonparametric Deconvolution by Fourier Transformation and Other Related Approaches," Springer.
6. Qiu, P. (2019), "Some Recent Research in Statistical Process Control," Springer.
7. Qiu, P., and You, L. (2018), "Recent Research in Dynamic Screening System for Sequential Process Monitoring," In *Proceedings of the Pacific Rim Statistical Conference for Production Engineering* (Choi et al. ed.), 85–93, Springer.
8. Qiu, P. (2017), "Statistical Process Control Charts as a Tool for Analyzing Big Data," In *Big and Complex Data Analysis: Statistical Methodologies and Applications* (Ejaz Ahmed ed.), 123–138, Springer.
9. Qiu, P. (2011), "Jump Regression Analysis," In *International Encyclopedia of Statistical Sciences* (Miodrag Lovric ed.), 702–704, Springer.
10. Potegal, M., and Qiu, P. (2010), "Anger in children's tantrums: a new quantitative, behaviorally based model," In *International Handbook of Anger* (Eds, M. Potegal, G. Stemmler, and C. Spielberger), pp. 193–217, New York: Springer.
11. Qiu, P. (2009), "Image restoration," In *Wiley Interdisciplinary Reviews: Computational Statistics*, **1**, 110–113, John Wiley & Sons.
12. Hawkins, D.M., Qiu, P., and Zamba, K.D. (2008), "Change-point methods," *Encyclopedia of Statistics in Quality and Reliability*, John Wiley & Sons.

13. Hsu, J.C., Qiu, P., Hin, L.Y., Mutti, D.O., and Zadnik, K. (2004), "Multiple comparisons with the best ROC curve", In IMS Lecture Notes **47**, *New Developments in Multiple Comparison Procedures* (Y. Benjamini, S. Sarkar, and F. Bretz, eds), 65–75.
14. Qiu, P. (2000), "Some recent developments on edge detection and image reconstruction based on local smoothing and nonparametric regression," in book *Recent Research Developments in Pattern Recognition*, Vol. 1, 41–49.

Editted Conference Proceedings:

15. *Proceedings of the Pacific Rim Statistical Conference for Production Engineering*, (Editors: Choi, D., Jang, D., Lai, T.L., Lee, Y., Lu, Y., Ni, J., Qian, P., Qiu, P., and Tiao, G.), 2018, Singapore: Springer.
16. *Proceedings of the 4th International Congress on Image and Signal Processing (CISP11)*, vol. 1–5 (Editors: Qiu, P., Xiang, Y., Ding, Y., Li, D., and Wang, L.), 2011, New York: IEEE, Inc.
17. *Proceedings of the 2nd International Congress on Image and Signal Processing (CISP09)*, vol. 1–9 (Editors: Qiu, P., Yiu, C., Zhang, H., and Wen, X.), 2009, New York: IEEE, Inc.

Papers Published in Refereed Journals:

18. Ross, K., Qiu, P., You, L., and Wing, R.R., "Week-to-Week Predictors of Weight Loss and Regain During and After a Behavioral Weight Management Program," *Health Psychology*, in press.
19. Yang, K., and Qiu, P., "Nonparametric Estimation of the Spatio-Temporal Covariance Structure," *Statistics in Medicine*, in press.
20. You, L., and Qiu, P., "Effective Disease Screening by Online Risk Monitoring," *Technometrics*, in press.
21. Qiu, P., Xia, Z., and You, L. "Process Monitoring ROC Curve for Evaluating Dynamic Screening Methods," *Technometrics*, in press.
22. Qiu, P., Li, W., and Li, J., "A New Process Control Chart for Monitoring Short-Range Serially Correlated Data," *Technometrics*, in press.
23. Li, W., and Qiu, P., "A General Charting Scheme For Monitoring Serially Correlated Data With Short-Memory Dependence and Nonparametric Distributions," *IIE Transactions*, in press.

24. Kang, Y., Gong, X., Gao, J., and Qiu, P. (2019), "Error-in-Variables Jump Regression Using Local Clustering," *Statistics in Medicine*, **38**, 3642–3655.
25. Qiu, P., He, Z., and Wang, Z. (2019), "Nonparametric Monitoring of Multiple Count Data," *IISE Transactions*, bf 51, 972–984.
26. You, L., and Qiu, P. (2019), "Fast Computing For Dynamic Screening Systems When Analyzing Correlated Data," *Journal of Statistical Computation and Simulation*, **89**, 379–394.
27. Kang, Y., Mukherjee, P.S., and Qiu, P. (2018), "Efficient Blind Image Deblurring Using Nonparametric Regression And Local Pixel Clustering," *Technometrics*, **60**, 522–531.
28. Zang, Y., and Qiu, P. (2018), "Phase II Monitoring of Free-Form Surfaces: An Application to 3D Printing," *Journal of Quality Technology*, **50**, 379–390.
29. Wang, Z., and Qiu, P. (2018), "Count data monitoring: parametric or nonparametric?" *Quality and Reliability Engineering International*, **34**, 1763–1774.
30. Iqbal, A., Sakharuk, I., Goldstein, L., Tan, S.A., Qiu, P., Li, Z., Hughes, S.J. (2018), "Readmission after ileostomy creation in colorectal surgery patients is predictable," *Journal of the Society of Laparoendoscopic Surgeons*, **22**, 1–8.
31. Song, H., and Qiu, P. (2018), "Three-dimensional Image Registration Using Distributed Parallel Computing," *IET Image Processing*, **12**, 1713–1720.
32. Qiu, P. (2018), "Peter Hall: My Mentor, Collaborator, and Friend," *Statistica Sinica*, **28**, 2249–2259.
33. Qiu, P., Zi, X., and Zou, C. (2018), "Nonparametric Dynamic Curve Monitoring," *Technometrics*, **60**, 386–397.
34. Feng, L., and Qiu, P. (2018), "Difference Detection Between Two Images for Image Monitoring," *Technometrics*, **60**, 345–359.
35. Iqbal, A., Khan, A., George, T., Tan, S.A., Qiu, P., Yang, K., Trevino, J., and Hughes, S.J. (2018), "Objective preoperative parameters predict difficult pelvic dissections and clinical outcomes," *Journal of Surgical Research*, **232**, 15-25.
36. Yang, K., and Qiu, P. (2018), "Spatio-Temporal Incidence Rate Data Analysis By Nonparametric Regression," *Statistics in Medicine*, **37**, 2094–2107.
37. Zang, Y., and Qiu, P. (2018), "Phase I Monitoring of Spatial Surface Data from 3D Printing," *Technometrics*, **60(2)**, 169–180.
38. Delitto, D., George, T.J., Loftus, T.J., Qiu, P., Chang, G.J., Allegra, C.J., Hall, W.A., Hughes, S.J., Tan, S.A., Shaw, C.M., and Iqbal, A. (2018), "Prognostic Value of Clinical vs Pathologic Stage in Rectal Cancer Patients Receiving Neoadjuvant Therapy," *Journal of the National Cancer Institute*, **110(5)**, 460–466.

39. Park, K.Y., and Qiu, P. (2018), "Evaluation of the Treatment Time-Lag Effect for Survival Data," *Life-Time Data Analysis*, **24**, 310–327.
40. Ross, K., Qiu, P., You, L., and Wing, R. (2018), "Characterizing the Pattern of Weight Loss and Regain in Adults," *Obesity*, **26(2)**, 318–323.
41. Qiu, P. (2018), "Some Perspectives On Nonparametric Statistical Process Control," *Journal of Quality Technology*, **50**, 49–65.
42. Qiu, P. (2018), "Jump regression, image processing, and quality control (with discussions)," *Quality Engineering*, **30**, 137–153.
43. Qiu, P. (2018), "Jump regression, image processing, and quality control - rejoinder," *Quality Engineering*, **30**, 160–162.
44. Sonawane Deshmukh, K., Suk, R., Chiao, E.Y., Chhatwal, J., Qiu, P., Wilkin, T., Nyitray, A.G., Sikora, A., and Deshmukh, A.A. (2017), "Oral Human Papillomavirus Infection: Differences in Prevalence Between Sexes and Concordance With Genital Human Papillomavirus Infection, NHANES 2011 to 2014," *Annals of Internal Medicine*, **167**, 714–724.
45. Li, J., and Qiu, P. (2017), "Construction of An Efficient Multivariate Dynamic Screening System," *Quality and Reliability Engineering International*, **33**, 1969–1981.
46. Dave, C.V., Kesselheim, A.S., Fox, E.R., Qiu, P., and Hartzema, A. (2017), "High generic drug prices and market competition levels: a retrospective cohort study," *Annals of Internal Medicine*, **167(3)**, 145–151.
47. Chen, Z., Huang, H., and Qiu, P. (2017), "An Improved Two-Stage Procedure to Compare Hazard Curves," *Journal of Statistical Computation and Simulation*, **87(9)**, 1877–1886.
48. Song, H., and Qiu, P. (2017), "Intensity-Based 3D Local Image Registration," *Pattern Recognition Letters*, **94** 15–21.
49. Qiu, P., Yang, K., and You, L. (2017), Discussion of "Post Selection Shrinkage Estimation for High Dimensional Data Analysis," *Applied Stochastic Models in Business and Industry*, **33(2)**, 123-125.
50. Song, H., and Qiu, P. (2017), "A Parametric Intensity-Based 3D Image Registration Method for Magnetic Resonance Imaging," *Signal, Image and Video Processing*, **11**, 455–462.
51. Li, J., and Qiu, P. (2016), "Nonparametric Dynamic Screening System for Monitoring Correlated Longitudinal Data," *IIE Transactions*, **48**, 772–786.
52. Chen, Z., Huang, H., and Qiu, P. (2016), "Comparing Multiple Hazard Rate Functions," *Biometrics*, **72**, 39–45..

53. Paynabar, K., Qiu, P., and Zou, C. (2016), "A Change Point Approach for Phase-I Analysis in Multivariate Profiles Monitoring and Diagnosis," *Technometrics*, **58**, 191–204.
54. Zhang, J., Qiu, P., and Chen, X. (2016), "Statistical monitoring-based alarming systems in modeling the AIDS epidemic in the US, 1985-2011," *Current HIV Research*, **14**, 130–137.
55. Liang, F., Song, Q., and Qiu, P. (2015), "An equivalent measure of partial correlation coefficients for high dimensional Gaussian graphical models," *JASA*, **110**, 1248–1265.
56. Kang, Y., Gong, X., Gao, J., and Qiu, P. (2015), "Jump Detection in Generalized Error-in-Variables Regression with an Application to Australian Health Tax Policies," *Annals of Applied Statistics*, **9**, 883–900.
57. Zhang, J., Kang, Y., Yang, Y., and Qiu, P. (2015), "Statistical monitoring of the hand, foot, and mouth disease in China," *Biometrics*, **71**, 841–850.
58. Qiu, P., and Xiang, D. (2015), "Multivariate Dynamic Screening System For Identifying Irregular Longitudinal Patterns," *Statistics in Medicine*, **34**, 2204–2221.
59. Xia, Z., and Qiu, P. (2015), "Jump Information Criterion for Statistical Inference in Estimating Discontinuous Curves," *Biometrika*, **102**, 397–408.
60. Qiu, P., and Kang, Y. (2015), "Blind Image Deblurring Using Jump Regression Analysis," *Statistica Sinica*, **25**, 879–899.
61. Qiu, P., and Zhang, J. (2015), "On Phase II SPC In Cases When Normality Is Invalid," *Quality and Reliability Engineering International*, **31**, 27–35.
62. Mukherjee, P.S., and Qiu, P. (2015), "Image Denoising by a Local Clustering Framework," *Journal of Computational and Graphical Statistics*, **24**, 254–273.
63. Kang, Y., and Qiu, P. (2014), "Jump Detection In Blurred Regression Surfaces," *Technometrics*, **56**, 539–550.
64. Park, K.Y., and Qiu, P. (2014), "Model Selection and Diagnostics For Joint Modeling Of Survival And Longitudinal Data With Crossing Hazard Rate Functions," *Statistics in Medicine*, **33**, 4532–4546.
65. Li, Z., and Qiu, P. (2014), "Statistical Process Control Using Dynamic Sampling," *Technometrics*, **56**, 325–335.
66. Qiu, P., and Xiang, D. (2014), "Statistical Process Screening System: An Approach For Dynamically Identifying Irregular Individuals," *Technometrics*, **56**, 248–260.

67. He, J., Qiu, P., Park, K.Y., Xu, Q., and Potegal, M. (2013), "Anger and Distress Emotion Clusters in Young Chinese Children's Responses to Toy Removal as Determined from Behavioral Time Course," *International Journal of Behavioral Development*, **37**, 349–356.
68. Mukherjee, P.S., and Qiu, P. (2013), "Efficient Bias Correction For MRI Image Denoising," *Statistics in Medicine*, **32**, 2079–2096.
69. Qiu, P., and Xing, C. (2013), "Feature Based Image Registration Using Non-Degenerate Pixels," *Signal Processing*, **93**, 706–720.
70. Qiu, P., and Xing, C. (2013), "On Nonparametric Image Registration," *Technometrics*, **55** 174–188.
71. Xiang, D., Qiu, P., and Pu, X. (2013), "Local polynomial regression analysis of multivariate longitudinal data," *Statistica Sinica*, **23**, 769–789.
72. Li, Z., Qiu, P., Chatterjee, S., and Wang, Z. (2013), "Using P-Values To Design Statistical Process Control Charts," *Statistical Papers*, **54**, 523–539.
73. Liu, X., Zhu, X., Qiu, P., and Chen, W. (2012), "A correlation-matrix-based hierarchical clustering method for functional connectivity analysis," *Journal of Neuroscience Methods*, **211**, 94–102.
74. Qiu, P., and Mukherjee, P.S. (2012), "Edge structure preserving 3-D image denoising by local surface approximation," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **34**, 1457–1468.
75. Qiu, P., and Li, Z. (2011), "On Nonparametric Statistical Process Control Of Univariate Processes," *Technometrics*, **53**, 390–405.
76. Qiu, P., and Li, Z. (2011), "Distribution-Free Monitoring of Univariate Processes," *Statistics and Probability Letters*, **81**, 1833–1840.
77. Xing, C., and Qiu, P. (2011), "Intensity Based Image Registration By Nonparametric Smoothing," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **33**, 2081–2092.
78. Mukherjee, P.S., and Qiu, P. (2011), "3-D Image Denoising By Local Smoothing and Nonparametric Regression," *Technometrics*, **53**, 196–208.
79. Qiu, P., and Mukherjee, P.S. (2010), "Edge structure preserving image denoising," *Signal Processing*, **90**, 2851–2862.
80. Huang, X., and Qiu, P. (2010), "Blind Deconvolution For Jump-Preserving Curve Estimation," *Mathematical Problems in Engineering*, **2010**, Article ID 350849, 1–9.
81. Qiu, P., and Zou, C. (2010), "Control Chart For Monitoring Nonparametric Profiles With Arbitrary Design," *Statistica Sinica*, **20**, 1655–1682.

82. Qiu, P., Zou, C., and Wang, Z. (2010), "Nonparametric profile monitoring by mixed effects modeling (with discussions)," *Technometrics*, **52**, 265–277. (Note: This paper was selected as one of the 35 classic papers by the "60 years of *Technometrics*" virtual issue.)
83. Qiu, P., Zou, C., and Wang, Z. (2010), "Nonparametric profile monitoring by mixed effects modeling - Rejoinder," *Technometrics*, **52**, 288–293.
84. Cheng, M., Qiu, P., Tan, X., and Tu, D. (2009), "Nonparametric Confidence Intervals for the Crossing Point of Two Hazard Functions," *Lifetime Data Analysis*, **15**, 441–454.
85. Zhang, B., Su, Z., and Qiu, P. (2009), "On Jump Detection In Regression Curves Using Local Polynomial Kernel Estimation," *Pakistan Journal of Statistics*, **25**, 505–528. (Note: This is an invited submission to celebrate the 25th anniversary of the journal.)
86. Zou, C., and Qiu, P. (2009), "Multivariate statistical process control using LASSO," *JASA*, **104**, 1586–1596.
87. Qiu, P., Yang, R., and Potegal, M. (2009), "Statistical Modeling of the Time Course of Tantrum Anger," *Annals of Applied Statistics*, **3**, 1013–1034.
88. Joo, J.H., and Qiu, P. (2009), "Jump detection in a regression curve and its derivative," *Technometrics*, **51**, 289–305.
89. Zou, C., Qiu, P., and Hawkins, D.M. (2009), "Nonparametric control chart for monitoring profiles using the change point formulation," *Statistics Sinica*, **19**, 1337–1357.
90. Chatterjee, S., and Qiu, P. (2009), "Distribution-Free Statistical Process Control With Bootstrap Cumulative Sum Control Charts," *Annals of Applied Statistics*, **3**, 349–369
91. Qiu, P., and Sun, J. (2009), "Using conventional edge detectors and post-smoothing for segmentation of spotted microarray images," *Journal of Computational and Graphical Statistics*, **18**, 147–164.
92. Qiu, P. (2009), "Jump-preserving surface reconstruction from noisy data," *Annals of the Institute of Statistical Mathematics*, **61**, 715–751.
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141. Park, C., and Qiu, P., “Sequential Adaptive Design for Jump Regression Estimation,” (submitted to *IEEE-TPAMI*).
142. Park, K.Y., and Qiu, P., “Comparing Crossing Hazard Rate Functions By Joint Modeling Survival And Longitudinal Data,” (revised for *Journal of Statistical Computation and Simulation*).
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2. Qiu, P. (2019), “Statistical Process Control and Its Potential for Handling Big Data Applications,” **plenary talk**, ISSAT International Conference on Data Science in Business, Finance and Industry, July 3–5, 2019, Da Nang, Vietnam.
3. Qiu, P. (2019), “A Three-Step Nonparametric Regression Approach for Analyzing Spatio-Temporal Data,” **invited talk**, International Conference on Econometrics and Statistic, June 25-27, 2019, National Chung Hsing University, Taiwan.
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5. Qiu, P. (2018), “From Disease Surveillance to Image Monitoring: Challenges in Modern SPC Applications,” **invited talk**, The 3rd Pacific Rim Statistical Conference for Production Engineering, December 13-15, 2018, Hsinchu, Taiwan.
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38. Qiu, P. (2013), "Big Data? More Challenges!" **Keynote speech**, 2nd International Symposium on System Informatics and Engineering, July 8-9, 2013, Xi'an, China.
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79. Qiu, P., and Yandell, B. (1996), "Discontinuity detection in regression surface" The Joint Statistical Meeting, **contributed talk**, August 4-8, 1996, Chicago, Illinois.
80. Qiu, P. (1992), "Jump regression surfaces fitting", AMS-IMS-SIAM Summer Research Conference on Change-Point Problems, **invited talk**, July 11-17, 1992, Mt. Holyoke, MA.
81. Qiu, P. (1991), "Jump regression function estimation," 48th session of the International Statistical Institute, **invited talk**, September 9-18, 1991, Cairo, Egypt.
82. Qiu, P. (1990), "Jump regression function and forecasting," The 4th Annual Conference of the Japanese Society of Computational Statistics, **invited talk**, May 17-18, 1990, Fukuoka, Japan.

Invited Seminars:

83. Qiu, P. (2019), "Data Science: My Personal Experience and Perspectives," July 2, 2019, Dong A University, Da Nang, Vietnam.
84. Qiu, P. (2018), "From Disease Surveillance to Image Monitoring: Challenges in Modern SPC Applications," December 17, 2018, Center for Statistical Science, Hsinghua University, Beijing, China.
85. Qiu, P. (2018), "Mathematics, Statistics, and Data Science: My Personal Experience and Perspectives," June 13, 2018, College of Science, Chang'An University, Xi'An, China.

86. Qiu, P. (2018), "Mathematics, Statistics, and Data Science: My Personal Experience and Perspectives," June 11, 2018, College of Mathematics and Statistics, Jiangsu Normal University, Xuzhou, China.
87. Qiu, P. (2018), "Dynamic Screening System: An Approach For Early Detecting Irregularities of a Longitudinal Process," June 8, 2018, School of Economics, Shanghai University of Finance and Economics, Shanghai, China.
88. Qiu, P. (2018), "Comparing Crossing Hazard Curves," June 5, 2018, Department of Biostatistics, Southern Medical University, Guangzhou, China.
89. Qiu, P. (2018), "A Brief Introduction About Biostatistics at UF," April 24, 2018, UF Institute of Informatics, University of Florida, Gainesville.
90. Qiu, P. (2018), "Dynamic Screening System: An Approach For Disease Early Detection and Prevention," April 2, 2018, Department of Statistics, Rice University, Houston, Texas.
91. Qiu, P. (2017), "Jump information criterion for statistical inference in estimating jump regression curves," November 3, 2017, Department of Statistics, University of Kentucky, Lexington, Kentucky.
92. Qiu, P. (2017), "From Quality Control to Disease Screening and Surveillance," October 27, 2017, Cincinnati Children's Hospital and University of Cincinnati CCTST, Cincinnati, OH.
93. Qiu, P. (2017), "Statistical Process Screening System: An Approach For Identifying Irregular Longitudinal Patterns," July 14, 2017, College of Mathematics, Shanghai Jiaotong University, Shanghai, China.
94. Qiu, P. (2017), "Statistical Process Screening System: An Approach For Identifying Irregular Longitudinal Patterns," July 11, 2017, College of Management and Economics, Tianjin University, Tianjin, China.
95. Qiu, P. (2017), "Introduction to My Recent Research in SPC," July 9, 2017, Institute of Statistical Research, Nankai University, Tianjin, China.
96. Qiu, P. (2017), "The Best Choice For Our Career: Statistics!" July 10, 2017, Institute of Statistical Research, Nankai University, Tianjin, China.
97. Qiu, P. (2017), "Dynamic Disease Screening: An Approach For Disease Early Detection and Prevention," Department of Mathematics and Statistics, Old Dominion University, April 20, 2017, Norfolk, Virginia.
98. Qiu, P. (2017), "Dynamic Disease Screening: An Approach for Disease Early Detection and Prevention," Department of Statistics and Actuarial Science, Simon Fraser University, March 31, 2017, Vancouver, Canada.

99. Qiu, P. (2016), "Disease Early Detection and Prevention by Dynamic Disease Screening System," October 28, 2016, Department of Statistics, University of Kentucky, Lexington, Kentucky.
100. Qiu, P. (2016), "Statistical Methods for Detecting Outbreaks of Infectious Diseases and Their Application to the Chinese National Influenza Surveillance Data," June 1, 2016, Chinese National Influenza Center, China CDC, Beijing, China.
101. Qiu, P. (2016), "Design control charts using p-values and dynamic sampling intervals," May 30, 2016, Institute of Statistical Research, Nankai University, Tianjin, China.
102. Qiu, P. (2016), "Recent research on nonparametric SPC," May 26, 2016, School of Statistics and Finance, East China Normal University, Shanghai, China.
103. Qiu, P. (2016), "Jump information criterion for statistical inference in estimating jump regression curves," April 21, 2016, Department of Statistics, Virginia Tech, Blacksburg, VA.
104. Qiu, P. (2015), "Disease Early Detection and Prevention by a Dynamic Screening System," June 26, 2015, College of Biological Sciences and Biotechnology, Beijing Forestry University, Beijing, China.
105. Qiu, P. (2015), Invited discussion on "Statistical Research in US," June 22, 2015, Department of Statistics, Tianjin University of Finance and Economics, Tianjin, China.
106. Qiu, P. (2015), Six one-hour lectures on "Basics of Statistical Process Control," June 10, 2015, School of Statistics and Finance, East China Normal University, Shanghai, China.
107. Qiu, P. (2014), Two-hour lecture on "Multivariate dynamic disease screening and monitoring of hand, foot and mouth disease in China," December 10, 2014, National Center of Theoretical Science, Hsinchu, Taiwan.
108. Qiu, P. (2014), Three-hour lecture on "Recent Research in Multivariate SPC, Non-parametric SPC, and Profile Monitoring," July 4, 2014, National Center of Theoretical Science, Hsinchu, Taiwan.
109. Qiu, P. (2014), "Dynamic Screening System: An Approach For Identifying Irregular Longitudinal Patterns," June 25, 2014, Department of Systems Engineering and Engineering Management, City University of Hong Kong, Hong Kong.
110. Qiu, P. (2014), "Dynamic Screening System: An Approach For Identifying Irregular Longitudinal Patterns," June 24, 2014, Department of Statistics and Actuarial Science, University of Hong Kong, Hong Kong.
111. Qiu, P. (2014), "Statistical Process Screening System: An Approach For Identifying Irregular Longitudinal Patterns," March 27, 2014, Department of Statistics, Florida State University, Tallahassee, FL.

112. Qiu, P. (2014), "Statistical Process Screening System: An Approach For Identifying Irregular Longitudinal Behavior," March 20, 2014, Department of Statistics, University of Georgia, Athens, GA.
113. Qiu, P. (2014), "Statistical Process Screening System: An Approach For Identifying Irregular Longitudinal behavior," March 12, 2014, Department of Mathematics, Southeastern University, Nanjing, China.
114. Qiu, P. (2014), "Disease Early Detection and Prevention by Dynamic Disease Screening System," February 25, 2014, Division of Biostatistics, University of Miami, Miami, FL.
115. Qiu, P. (2013), "Jump Regression Analysis and Image Processing," November 25, 2013, Department of Mathematics, University of Florida, Gainesville, FL.
116. Qiu, P. (2013), "On Nonparametric Statistical Process Control," November 5, 2013, Department of Statistics, University of California at Riverside, Riverside, CA.
117. Qiu, P. (2013), "Statistical Process Screening System: An Approach For Identifying Irregular Longitudinal behavior," October 24, 2013, Department of Statistics, University of Florida, Gainesville, FL.
118. Qiu, P. (2013), "Intensity Based Nonparametric Image Registration," August 30, 2013, Department of Statistics, Purdue University, West Lafayette, IN.
119. Qiu, P. (2013), "Comparison of Two Crossing Hazard Rate Functions," July 11, 2013, College of Mathematical Sciences, Beijing University of Technology, Beijing, China.
120. Qiu, P. (2013), Twelve one-hour lectures on "Jump regression analysis and image processing," July 5-6, 2013, School of Statistics and Finance, East China Normal University, Shanghai, China.
121. Qiu, P. (2013), "Statistical Process Screening System: An Approach For Identifying Irregular Longitudinal behavior," March 27, 2013, Department of Industrial and Operations Engineering, University of Michigan, Ann Arbor, MI.
122. Qiu, P. (2012), "Comparison of Two Crossing Hazard Rate Functions," December 16, 2012, School of Mathematics and Statistics, Wuhan University, Wuhan, China.
123. Qiu, P. (2012), "Statistical Process Screening System: An Approach For Identifying Irregular Individuals," November 14, 2012, School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, GA.
124. Qiu, P. (2012), "Comparison of Two Crossing Hazard Rate Functions," October 22, 2012, College of Public Health and Health Professions, University of Florida, FL.
125. Qiu, P. (2012), "Jump Regression Analysis and Image Processing," SAMSI image processing working group, WebEx talk, October 29, 2012, SAMSI, NC.

126. Qiu, P. (2012), "Comparison of two crossing hazard rate functions," February 28, 2012, Department of Mathematics and Statistics, University of Melbourne, Melbourne, Australia.
127. Qiu, P. (2012), "Jump regression analysis and image processing," February 21, 2012, Centre for Quantum Computation and Intelligent Systems, University of Technology at Sydney, Sydney, Australia.
128. Qiu, P. (2011), "Jump regression analysis and image processing," November 3, 2011, School of Mathematics and Statistical Sciences, Arizona State University, Tempe, AZ.
129. Qiu, P. (2011), six one-hour lectures on "jump regression analysis, image processing, and statistical process control," July 1-6, 2011, School of Statistics and Finance, East China Normal University, Shanghai, China.
130. Qiu, P. (2011), "Some research problems in image processing," July 13, 2011, School of Computer Science and Technology, Qingdao Technological University, Qingdao, China.
131. Qiu, P. (2010), "Jump Regression Analysis and Image Processing," June 26, 2010, Department of Mathematics, Southeastern University, Nanjing, China.
132. Qiu, P. (2010), "Distribution-Free Statistical Process Control Of Univariate Processes," June 22, 2010, School of Statistics and Finance, East China Normal University, Shanghai, China.
133. Qiu, P. (2009), "Comparison of two hazard rate functions," July 17, 2009, Institute of Applied Mathematics, Chinese Academy of Sciences, Beijing, China.
134. Qiu, P. (2009), "Local smoothing segmentation of spotted microarray images," July 16, 2009, Institute of Automation, Chinese Academy of Sciences, Beijing, China.
135. Qiu, P. (2009), "Local smoothing segmentation of spotted microarray images," July 7, 2009, Department of Electric Engineering, Fudan University, Shanghai, China.
136. Qiu, P. (2009), "Blind image deblurring using jump regression analysis," April 30, 2009, School of Mathematics, University of Minnesota.
137. Qiu, P. (2009), "Introduction to some research problems in statistics," February 6, 2009, seminar course, School of Statistics, University of Minnesota.
138. Qiu, P. (2009), "Statistical Modeling of the Time Course of Tantrum Anger," January 15, 2009, Department of Statistics, University of Georgia.
139. Qiu, P. (2008), "Comparison of two hazard rate functions," November 12, 2008, Department of Statistics, University of Pennsylvania.

140. Qiu, P. (2008), a series of six invited lectures were given at The Department of Statistics, Shanghai University of Finance and Economics, China, during June 17–19, 2008. The topics of the lectures are on jump regression analysis and statistical process control.
141. Qiu, P. (2008), “On some recent research topics in image processing and statistical process control,” June 9, 2008, Department of Statistics, Nankai University, China.
142. Qiu, P. (2008), “Comparison of Two Possibly Crossing Hazard Rate Functions,” April 17, 2008, School of Statistics, University of Minnesota.
143. Qiu, P. (2008), “Local smoothing segmentation of spotted microarray images,” March 20, 2008, Statistical Engineering Division, National Institute of Standards and Technology, Gaithersburg, Maryland.
144. Qiu, P. (2008), “Segmentation of spotted microarray images for generating gene expression data,” January 16, 2008, Department of Biostatistics, University of North Carolina at Chapel Hill.
145. Qiu, P. (2007), “A two-stage procedure for comparing hazard rate functions,” October 25, 2007, Department of Statistics, The Pennsylvania State University.
146. Qiu, P., and Chatterjee, S. (2006), “Nonparametric Statistical Process Control With Bootstrap Cumulative Sum Control Charts,” July 19, 2006, Institute of Statistics, National Tsing-Hua University, Taiwan.
147. Qiu, P. (2004), “Jump surface estimation and image restoration,” November 25, 2004, Mathematical Sciences Institute, Australian National University, Canberra, ACT 0200, Australia.
148. Qiu, P. (2004), “Segmentation Of cDNA Microarray Images By Local Smoothing,” October 26, 2004, Canberra branch, Statistical Society of Australia, Canberra, ACT 0200, Australia.
149. Qiu, P. (2004), “Jump Surface Estimation By Local Smoothing With Applications In Image Processing,” April 22-23, 2004, Department of Statistics, Ohio State University, Columbus, Ohio.
150. Qiu, P. (2002), “Image Reconstruction By Local Smoothing Techniques”, October 30-31, 2002, Department of Statistics, Texas A&M University.
151. Qiu, P., and Hawkins, D. (2002), “A distribution-free multivariate cusum procedure,” June 13, 2002, Center for Mathematics and Its Applications, Australian National University, Canberra, Australia.
152. Qiu, P. (2001), “Nonparametric jump regression analysis and image processing,” November 5, 2001, Department of Statistics, University of Chicago.

153. Qiu, P. (2000), a series of three invited lectures were given at The Institute of Systems Science, Academia Sinica, Beijing, P.R. China in May 2000. The titles were: 1. "Nonparametric estimation of jump regression functions"; 2. "ROC curve fitting And multiple comparisons"; 3. "Statistical model building for a rat sleep dataset".
154. Qiu, P. (2000), "Statistical model building for a rat sleep dataset," April 13, 2000, School of Statistics, University of Minnesota.
155. Qiu, P. (1999), "Sample size to test for interaction between a specific exposure and a second risk factor in a pair-matched case-control study," May 4, 1999, Division of Biostatistics, University of Minnesota.
156. Qiu, P. (1998), "Nonparametric estimation of jump regression functions", February 3, 1998, School of Statistics, University of Minnesota.
157. Qiu, P. (1998), "Jump regression analysis and image processing," February 10, 1998, Division of Statistics, Washington State University, Pullman, Washington.
158. Qiu, P. (1998), "Nonparametric ROC curve estimation," May 4, 1998, School of Public Health, The Ohio State University.
159. Qiu, P. (1996), "Modelling daily and subdaily cycles in rat sleep data," October 8, 1996, Biostatistics Center, The Ohio State University.
160. Qiu, P., Chappell, R., Obermeyer, W., and Benca, R. (1996), "Model building for rat sleep data," October 4, 1996, Department of Biostatistics, University of Wisconsin-Madison.
161. Qiu, P. (1991), "Estimation of jump regression functions," November 21, 1991, Department of Statistics, University of Georgia.
162. Qiu, P. (1990), "Some recent research in jump regression analysis," May 20, 1990, Institute of Engineering Sciences, Kyushu University, Japan.

Short Courses Given at Conferences:

1. Qiu (2016), "Modern Statistical Process Control Charts and Their Use as a Tool for Analyzing Big Data," February 18, 2016, 1:30 p.m. - 5:30 p.m., 2016 ASA Conference on Statistical Practice, San Diego, CA.
2. Qiu (2016), "Modern Statistical Process Control Chart and Their Applications to Big Data Analysis," December 14, 2016, 9:00 a.m. - 3:00 p.m., The 2nd Pacific Rim Statistical Conference for Production Engineering, Seoul National University, Korea.
3. Qiu (2018), "Modern Statistical Process Control Chart and Their Applications for Analyzing Big Data," December 15, 2018, 1:30-4:30 p.m., The 3rd Pacific Rim Statistical Conference for Production Engineering, Hsinchu, Taiwan.

Courses Taught at University of Minnesota:

STAT-1001, *Introduction to the Ideas of Statistics*, Spring02
STAT-3011, *Introduction to Statistical Analysis*, Fall98, Fall99, Fall99, Fall06, Spring09, Fall09
STAT-3022, *Data Analysis*, Winter99, Spring99, Spring00, Fall00, Spring02, Fall02, Spring03, Summer03, Spring10
STAT-3091, *Statistical Analysis for Engineering Students*, Winter99
STAT-5021, *Statistical Analysis*, Summer01, Summer02
STAT-5031, *Quality Control and Management*, Spring11
STAT-5101, *Theory of Statistics I*, Fall00
STAT-5102, *Theory of Statistics II*, Spring01
STAT-5401/8401, *Multivariate Statistical Analysis*, Spring07, Spring08
STAT-5421/8421, *Categorical Data Analysis*, Spring01, Fall03, Fall05, Fall07, Fall10
STAT-8051/8061, *Advanced Regression Techniques*, Fall02, Fall03, Fall10, Fall12
STAT-8053, *Applied Statistical Methods III: Multivariate Analysis and Advanced Regression*, Fall07
STAT-8931, *Advanced Topics Course*, Spring04, Spring06, Spring07, Spring10, Fall12

Courses Taught at University of Florida:

GMS-7093, *Introduction to Clinical and Translational Research*, Summer 2016, Summer 2018
PHC-6020, *Clinical Trial Methods*, Spring17, Spring18

Supervised Graduate Students/Visitors at University of Minnesota:

Graduate Students:

1. Xiaoshan Zhang (MS 2001), project title: "Measurements of observer agreement".
2. Rong Yang (Ph.D 2005), thesis title: "Statistical modeling of multivariate longitudinal binary data".
3. Jingran Sun (Ph.D 2005), thesis title: "Edge detection, image segmentation and their applications in microarray image analysis".
4. Saveth Ho (MS 2006), project title: "Analysis of three anger datasets".
5. Jun Sheng (Ph.D 2006), thesis title: "Comparison of two crossing hazard rates".
6. Jinmei Qi (MS 2007), project title: "Exploratory analysis of circadian rhythm in tantrum frequency and tantrum duration".
7. Jong-Hoon Joo (Ph.D 2008), thesis title: "Jump/Roof/Valley Detection in Regression Curves and Surfaces".
8. Shengjie Zheng (MS 2009), project title: "Comparison of Two Early Breast Cancer Treatments".

9. Wei Liu (Ph.D 2010), thesis title: “Some Charting Methodologies in MSPC”
10. Xiao Liu (MS 2010). project title: “Using a correlation-matrix-based hierarchical clustering method to extract spontaneous BOLD fluctuation patterns”
11. Partha Sarathi Mukherjee (Ph.D 2011), thesis title: “Edge-structure preserving 2-D and 3-D image denoising by jump surface estimation”
12. Xiaopei Wang (MS 2011), project title: “A Dynamic Approach for Finding a Parametric Transformation in Regression”
13. Chen Xing (Ph.D 2012), thesis title: “Image Registration by Non-Degenerate Pixel Detection”
14. Jingnan Zhang (MS 2013), project title: “On Phase II SPC In Cases When Normality Is Invalid”
15. Songxuan Shen (MS 2013), project title: “A Dynamic Parametric Method For Regression Transformations”
16. Yicheng Kang (Ph.D 2013), thesis title: “Edge Detection and Image Restoration of Blurred Noisy Images Using Jump Regression Analysis”
17. Ka Young Park (Ph.D 2013), thesis title: “Comparing Crossing Hazard Rate Functions By Joint Modeling Survival And Longitudinal Data”
18. Jing Liu (MS 2013), project title: “A Review of Two-Dimensional Medical Image Registration Methods”

Visitors:

19. Changliang Zou, Ph.D. student, Department of Statistics, Nankai University, China. November 25, 2007 – September 25, 2008. Sponsored by an NSF grant for US – China research collaborations.
20. Xingfang Huang, Ph.D. student, Department of Applied Mathematics, Xian Jiaotong University, China, September 1, 2008 – August 31, 2010. Sponsored by China Scholarship Council for joint Ph.D. programs.
21. Zhonghua Li, Ph.D. student, Department of Statistics, Nankai University, China. September 1, 2009 – August 31, 2010. Sponsored by China Scholarship Council for joint Ph.D. programs.
22. Dongdong Xiang, Ph.D. student, Department of Statistics, East China Normal University, China. September 1, 2011 – August 31, 2012. Sponsored by China Scholarship Council for joint Ph.D. programs.

23. Xueli Sung, Associate Professor, Department of Mathematics and Information and Science, Chang'an University, Xi'An, China, November 1, 2011 – October 31, 2012. Sponsored by China Scholarship Council for young researchers.
24. Qi Wang, Lecturer, Department of Mathematics, Northeastern University, Shenyang, China, April 1, 2012 – September 31, 2012. Sponsored by "Northeastern University sponsored oversea study program".
25. Jiujun Zhang, Associate Professor, Department of Mathematics, Liaoning University, Shenyang, China, January 8, 2013 – January 7, 2014. Sponsored by China Scholarship Council for young researchers.

Supervised Postdocs/Graduate Students/Visitors at University of Florida:

Postdocs:

26. Yicheng Kang, September 1, 2013 – August 31, 2014
27. Xuemin Zi, February 1, 2014 – July 31, 2014
28. Ka Young Park, September 1, 2014 - March 31, 2015
29. Long Feng, January 10, 2015 - January 9, 2016

Graduate Students:

30. Jingnan Zhang (Ph.D, 2016), thesis title: "An early warning system for modeling and monitoring spatio-temporal patterns of infectious diseases."
31. Zhaomian Li (MS, 2016), project title: "Longitudinal Change-Point Mixed Effect Modeling of Weight Loss."
32. Kai Yang (Ph.D, active)
33. Lu You (Ph.D, active)
34. Fan Yi (Ph.D, active)
35. Xiulin Xie (Ph.D, active)
36. Maryam Yazdanfar (MS Online, active)
37. Spencer Moore (MS Online, active)

Visitors:

38. Zhiming Xia, Associate Professor, Department of Mathematics, Northwest University, China. November 26, 2013 – November 25, 2014. Sponsored by China Scholarship Council for young researchers.

39. Xiong Xiong, Ph.D. student, Department of Computer Science and Technology, Tsinghua University, December 15, 2013 – December 14, 2014. Sponsored by China Scholarship Council for young researchers.
40. Wenzhi Zhao, Associate Professor, School of Science, Xi'an Polytechnic University, China. July 1, 2014 – December 31, 2014. Sponsored by Xi'an Polytechnic University.
41. Huajun Song, Associate Professor, College of Information and Control Engineering, China University of Petroleum, China. April 26, 2015 – April 25, 2016. Sponsored by China Scholarship Council for young researchers.
42. Yangyang Zang, Ph.D. student, Department of Industrial Engineering, Tsinghua University, China. September 1, 2015 – August 31, 2016. Sponsored by China Scholarship Council for young researchers.
43. Xuemin Zi, Professor, Department of Applied Mathematics, Tianjin University of Technology and Education, Tianjin, China. September 1, 2015 – August 31, 2015. Sponsored by China Scholarship Council for young researchers.
44. Zhiqiong Wang, Ph.D. student, College of Management and Economics, Tianjin University, Tianjin, China. September 15, 2016 – September 14, 2017. Sponsored by China Scholarship Council for young researchers.
45. Wendong Li, Ph.D. student, Department of Statistics, East China Normal University, China. October 19, 2017 – October 18, 2018. Sponsored by China Scholarship Council for young researchers.
46. Qin Zhou, Associate Professor, College of Mathematics and Statistics, Jiangsu Normal University, China. August 14, 2018 – August 13, 2019. Sponsored by China Scholarship Council for young researchers.
47. Li Xue, Associate Professor, Department of Management Engineering, Zhengzhou University of Aeronautics, China. September 28, 2018 – September 27, 2019. Sponsored by China Scholarship Council for young researchers.

Editorial Service:

- Editorial Board Member, *Quality Engineering*, 2019-present.
- Editorial Board Member, *Surgery*, 2016-2019.
- Editor-elect, 2013; editor, 2014-2016, *Technometrics*
- Associate Editor, *Journal of the American Statistical Association – Applications and Case Studies*, 2006-2012.
- Associate Editor, *Technometrics*, 2007-2012.

- Associate Editor, *Biometrics*, 2011-2012.
- Associate Editor, *Statistical Papers*, 2011-2012.
- Guest Co-Editor, *Multimedia Tools and Applications*, 2011, Special Issue on New Trends in Multimedia Processing, Vol. 52, Issue 1.
- Guest Co-Editor, *Quality and Reliability Engineering International*, 2013, Special Issue on Nonparametric Statistical Process Control.

Grant Reviews and Panels:

- National Science Foundation: 2003, 2005, 2008, 2009, 2013, 2014, 2015, 2018
- National Institute of Health: 2016
- National Security Agency: 2012, 2014
- National Sciences and Engineering Research Council of Canada: 2011, 2016, 2018
- Research Grant Council of Hong Kong: 2006, 2007, 2010, 2014, 2016
- Other agencies: Alzheimer's Association; ARC program of the French Community of Belgium; Marsden Fund, Royal Society of New Zealand; Romanian National Research Council; UF Division of Sponsored Research (DSR), UF CTSI.

Service for Academic Organizations:

- American Statistical Association (ASA): Committee on Publications (2013 - 2016), Caucus of Academic Representatives (2014 - 2017), Chair of the Technometrics Management Committee (2019-2022), Committee on Publications (2019 - 2021).
- American Society for Quality (ASQ): Journal Editor Committee (2013 - 2016)
- Institute of Mathematical Statistics (IMS): Chair of the IMS Local Committee for the 2015 Joint Summer Meeting at Minneapolis, Committee on Nominations (2011).
- Institute for Operations Research and the Management Sciences (INFORMS): Advisory Board Member for the INFORMS QSR Section (2017 - 2020).
- International Chinese Statistical Association (ICSA): Board of Directors (member, 2020 - 2022).

Service for Academic Conferences:

- Program Chair/Co-Chair

1. 2009 International Congress on Image and Signal Processing, October 17-19, 2009, Tianjin, China.
 2. 2011 International Congress on Image and Signal Processing, October 13-15, 2011, Shanghai, China.
 3. 2015 Workshop on Frontiers in Industrial Statistics, June 18-21, 2015, Nankai University, Tianjin, China.
- Program committee member
 1. International Conference on Statistical Analysis of Complex Data, July 1-3, 2010, Kunming, China.
 2. 2011 International Conference on Applied and Engineering Mathematics, October 28-30, 2011, Shanghai, China.
 3. 2011 International Conference on Computational Biology and Bioinformatics, October 28-30, 2011, Shanghai, China.
 4. International Conference on Pattern Recognition Applications and Methods, February 6-8, 2012, Algorve, Portugal.
 5. The 4th International Conference on Computational Intelligence and Software Engineering (CiSE 2012), December 14-16, 2012, China.
 6. The 2nd International Conference on Pattern Recognition Applications and Methods, February 15-18, 2013, Barcelona, Spain.
 7. The 1st Sino-US Research Conference on Quality, Analytics, and Innovations, July 1-2, 2016, Shanghai, China.
 8. The 10th ICSA international conference, December 19-22, 2016, Shanghai, China.
 9. The 2nd Pacific Rim Statistics Conference for Production Engineering, December 15-16, 2016, Seoul, Korea.
 10. Biostatistics Workshop "Statistical Inference for Biomedical Big Data," April 7-8, 2017, UF Department of Biostatistics, Gainesville, FL.
 11. The 2018 IISA International Conference on Statistics, May 17-20, 2018, University of Florida, Gainesville, FL.
 12. The 3rd Pacific Rim Statistics Conference for Production Engineering, December 13-14, 2018, National Tsing Hua University, Taiwan.
 13. ISSAT International Conference on Data Science in Business, Finance and Industry, July 3-5, 2019, Da Nang, Vietnam.
 14. ISSAT International Conference on Data Science in Business, Finance and Industry, July 1-3, 2020, Da Nang, Vietnam.
 - Organizers of about 50 invited sessions for various national and international conferences.

- Chairs of many sessions for various conferences.

Referee for Academic Journals and Book Publishers:

- Journals:

American Statistician; Annals of Applied Statistics; Annals of the Institute of Statistical Mathematics; Annals of Statistics; Applied Mathematics and Computation; Applied Physics B; Applied Stochastic Models in Business and Industry; Bioinformatics; Biometrics; Biometrika; BMC Medical Research Methodology; Communications in Statistics - Simulation and Computation; Communications in Statistics - Theory and Methods; Computational Statistics and Data Analysis; Computer Methods and Programs in Biomedicine; Computers and Mathematics with Applications; Current HIV Research; Environmental and Ecological Statistics; European Journal of Operational Research; IEEE Access; IEEE Transactions on Geoscience and Remote Sensing; IEEE Transactions on Image Processing; IEEE Transactions on Multimedia; IEEE Transactions on NanoBioscience; IEEE Transactions on Neural Networks; IEEE Transactions on Pattern Analysis and Machine Intelligence; IEEE Transactions on Signal Processing; IEEE Transactions on Systems, Man, and Cybernetics; IIE Transactions; IMS volume for the 3rd Lehmann Symposium; Information Sciences; International Journal of Production Research; Inverse Problems; Journal of American Statistical Association; Journal of Applied Statistics; Journal of Computational and Graphical Statistics; Journal of Educational and Behavioral Statistics; Journal of Hydrology; Journal of the Korean Statistical Society; Journal of Multivariate Analysis; Journal of Nonparametric Statistics; Journal of the Operational Research Society; Journal of Quality Technology; JRSS-A; JRSS-B; Journal of Scheduling; Journal of Statistical Computation and Simulation; Journal of Statistical Planning and Inference; Lifetime Data Analysis; Magnetic Resonance Imaging; Mathematical Problems in Engineering; Medical Physics; Multimedia Tools and Applications; NeuroImage; PLOS ONE; Probability Theory and Related Fields; Quality Engineering; Quality and Reliability Engineering International; Quality and Technology and Quality Management; Sankhya (Series A); Scandinavian Journal of Statistics; Science in China (Series A); Scientific Reports; SIAM Journal on Imaging Sciences; Signal Processing; Statistica Sinica; Statistical Analysis and Data Mining; Statistical Papers; Statistics and Computing; Statistics and Its Interface; Statistics and Probability Letters; Statistics in Medicine; Stochastic Environmental Research and Risk Assessment; Surgery; Technometrics; The Open Medical Informatics Journal.

- Book proposals review: John Wiley & Sons; Springer; Chapman & Hall/CRC; Pearson Arts & Sciences.

Other Academic Services:

- Invited panelist of a panel discussion organized by the Twin Cities Chapter of ASA, February 10, 2005.
- Judge, best paper award, INFORMS QSR division, 2016.
- Outside reviewer for faculty tenure and promotion cases in various universities in US (more than 20 times).
- Outside reviewer for faculty tenure and promotion cases in several universities in UK.
- Outside reviewer for faculty tenure and promotion cases in Chinese Academy of Sciences.
- Outside reviewer for faculty tenure and promotion in Yarmouk University of Jordan.
- Outside reviewer for faculty tenure and promotion cases in several universities in India.
- Outside reviewer or committee member for PhD thesis research of students from Australia (once), Belgium (once), Egypt (once), India (once), and China (twice).

Department/College/University Service at University of Minnesota:

- Department service:
 1. Curriculum committee (2006-2007)
 2. Faculty search committee (2005-2006, 2007-2008 Chair)
 3. Graduate admissions committee (1998-2004)
 4. Ph.D. exam committee (2009-2010, 2010-2011 Chair)
 5. Personnel Committee (2007-2009)
 6. Research computing committee (2001-2002)
 7. Seminar coordinator (2005-2006)
- College of Liberal Arts service:
 1. CLA InfoTechnology Committee (2002-2003)
 2. CLA Faculty Research Awards Committee (2010-2011)
- University service:
 1. General Research Advisory Committee, UMN Graduate School (2008-2009)
- Other service:
 1. Biostatistics faculty search committee (2002-2003)

Department/College/University Service at University of Florida:

- Department:
 1. Department Chair (2013-present)
 2. Curriculum committee (2013-2015)
 3. Faculty development committee (2013-2015)
- College of Medicine:
 1. Executive Committee (2013-present)
 2. LCME Information Resources and Library Services Sub-Committee (2014)
- College of Public Health and Health Professions:
 1. Executive Leadership Committee (2013-present)
 2. Public Health Policy Committee (2013-present)
 3. Committee on International Collaborations (Chair, 2018-present)
 4. Search Committee for the chair of the Department of Epidemiology (2018)
- University service:
 1. Steering committee for the Life Sciences Preeminence Program (2013-2014)
 2. Steering committee for the Biomedical Informatics Preeminence Program (2013-2014)
 3. Steering committee for the Genomic Medicine Preeminence Program (2013-2014)
 4. Scientific Advisory Committee, Biostatistics & Quantitative Sciences Shared Resource (BQS-SR), UF Health Cancer Center (2019-present)