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Sung K. Ahn

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Personal

Nationality:	U. S. A.
Birth Place:	Seoul, Korea
Birth Date:	July 2, 1956
Marital Status:	Married with One Son

Education

1983 - 1987
Department of Statistics, University of Wisconsin
Madison, Wisconsin
Ph. D. in Statistics, August, 1987, Advisor: Dr. Gregory C. Reinsel,
Thesis Title: A Study of Multivariate Time Series with Reduced Rank Structures and Partial Nonstationarity

1981 - 1983
Department of Mathematics, Wright State University
Dayton, Ohio
M. S. in Statistics, June, 1983

1975 - 1979
Department of Computer Science and Statistics
Seoul National University, Seoul, Korea
B. S. in Computer Science and Statistics, February, 1979

Experience

2010 to present
Professor
Department of Finance and Management Science
Washington State University

2006 - 2010
Department Chairman
Department of Management and Operations
Washington State University

2001 - 2010
Professor
Department of Management and Operations
Washington State University

Experience (continued)

2002 - 2003	Visiting Professor Department of Mathematics Pohang University of Science and Technology, Korea
1995 - 2001	Associate Professor Department of Management and Decision Sciences Washington State University
1995 - 1996	Visiting Associate Professor Department of Mathematics Pohang University of Science and Technology, Korea
1989 - 1995	Assistant Professor Department of Management and Systems Washington State University
1988 - 1989	Visiting Assistant Professor College of Business and Management University of Maryland-College Park
1987 - 1988	Visiting Assistant Professor Department of Statistics University of Tennessee
1984 - 1987	Graduate Research Assistant Department of Statistics University of Wisconsin-Madison
1983 - 1984	Graduate Teaching Assistant Department of Statistics University of Wisconsin-Madison
1983- 1983	Instructor Department of Mathematics Wright State University
1981-1983	Graduate Teaching and Statistical Consulting Assistant Department of Mathematics Wright State University

Publications

Published Papers

1. **Ahn, S. K.** and Reinsel, G. C. (1987), "Distribution of Residual Autocovariances and Prediction Mean Square Error Properties for the Multivariate Reduced Rank Autoregressive Model," *Communications in Statistics: Theory and Methods*, 16, 61-78.
2. Reinsel, G .C., Tiao, G. C., **Ahn, S. K.**, Pugh, M., Basu, S., Deluisi, J. J., Mateer, C. L., Miller, A. J., Connell, P. S., and Wuebbles, D. J. (1988), "An Analysis of the 7-year Record of SBUV Satellite Ozone Data: Global Profile Features and Trend in Total Ozone," *Journal of Geophysical Research,* 93 1689-1703.
3. **Ahn, S. K.** and Reinsel, G. C. (1988), "Nested Reduced Rank Autoregressive Models for Multiple Time Series," *Journal of the American Statistical Association*, 83, 849-856.
4. **Ahn, S. K.** (1988), "Distribution of Residual Autocovariances in Multivariate Autoregressive Models with Structured Parameterization," *Biometrika*, 75, 590-593.
5. **Ahn, S. K.** and Reinsel, G. C. (1990), "Estimation for Partially Nonstationary Multivariate Autoregressive Models," *Journal of the American Statistical Association,* 85, 813-823.
6. Reinsel, G. C. and **Ahn, S. K.** (1992), "Vector AR Models with Unit Roots and Reduced Rank Structure: Estimation, Likelihood Ratio Test, and Forecasting," *Journal of Time Series Analysis,* 13, 353-375.
7. **Ahn, S. K.** (1992), "F-Probability Plot and Its Application to Multivariate Normality," *Communications in Statistics: Theory and Methods,* 21, 997-1023.
8. Fotopoulos, S. B., Cho, S., and **Ahn, S. K.** (1993), "Deviations between Sample Quantiles and Empirical Processes under Absolute Regular Properties," *Journal of Nonparametric Statistics,* 2, 225-234.
9. **Ahn, S. K.** and Cho, S. (1993), "Some Tests for Unit Roots in Seasonal Time Series with Deterministic Trends," *Statistics and Probability Letters*, 16, 85-95.
10. **Ahn, S. K.** and Cho, S. (1993), "A Note on Tests for Seasonal Unit Roots in the Presence of Deterministic Trends," *Journal of the Korean Statistical Society,* 22, 113-124.
11. **Ahn, S. K.** (1993), "Some Tests for Unit Roots in Autoregressive Integrated Moving Average Models with Deterministic Trends," *Biometrika,* 80, 855-868.
12. **Ahn, S. K.** and Reinsel, G. C. (1994), "Estimation of Partially Nonstationary Vector Autoregressive Models With Seasonal Behavior," *Journal of Econometrics*, 62, 317-350.
13. Fotopoulos, S. B., **Ahn, S. K.**, and Cho, S. (1994), "Strong Approximation of the Quantile Processes and Its Applications under Strong Mixing Properties," *Journal of Multivariate Analysis,* 51, 17-45.
14. Cho, S., Park, Y. J., and **Ahn, S. K.** (1995), "Unit Root Tests for Seasonal Models with Deterministic Trends," *Statistics and Probability Letters,* 25, 27-35.
15. **Ahn, S. K.** (1995), "Seasonality in Time Series Analysis: Seasonal Cointegration and Model Misspecification (in Korean)," *Finance Research,* 9, 47-67.
16. Yamamura, J. H., Frakes, A. H., Sanders, D. L., and **Ahn, S. K.**, (1996), "A Comparison of Japanese and U.S. Auditor Decision-making Behavior," *International Journal of Accounting,* 31, 347-363.
17. **Ahn, S. K.** (1996), "Common Cycles in Seasonally Cointegrated Time Series," *Economics Letters,* 53, 261-264.
18. **Ahn, S. K.** (1997), "Inference of Vector Autoregressive Models with Cointegration and Scalar Components," *Journal of the American Statistical Association,* 92, 350-356.
19. Lee, J. L., Clark, C., and **Ahn, S. K.** (1998), "Long- and Short-Run Fisher Effects: New Tests and New Results," *Applied Economics*, 30, 113-124.
20. **Ahn, S. K.**, Park, Y. J., and Cho, S. (1998), "Model Misspecification in Nonstationary Seasonal Time Series," *Journal of the Korean Statistical Society,* 27, 67-90.

Publications (continued)

21. Lee, E. Y. and **Ahn, S. K.** (1998), "P_λ^M -Policy for a Dam with Input Formed by a Compound Poisson Process," *Journal of Applied Probability*, 35, 482-488.
22. **Ahn, S. K.** and Lee, E. Y. (2000), "A Note on Testing the Nested Structure in Multivariate Regression Models," *Oxford Bulletin of Economics and Statistics*, 62, 451-458.
23. **Ahn, S. K.**, Fotopoulos, S. B., and He, Lijian (2001), "Unit Root Tests with Infinite Variance Errors," *Econometric Reviews*, 20, 461-483.
24. **Ahn, S. K.** (2001), "Recent Development in Multivariate Time Series Analysis: Reduced Rank Models and Cointegration," (Invited paper) *Estadistica: Journal of the Inter-American Statistical Institute*, 53, 299-351.
25. Lee, M., Nziramasanga, M., and **Ahn, S. K.** (2002), "Real Exchange Rate: An alternative to the PPP puzzle," *Journal of Policy Modeling*, 24, 533-538.
26. Cho, H., Tansuhaj, P., McCullough, J., and **Ahn, S. K.** (2002), "Role of Conformity and Flexibility in Organizational Strategy during Crisis: A Case of Korean Venture Firms," *Journal of the Korean Economy*, 3, 257-280.
27. Fotopoulos, S. B. and **Ahn, S. K**. (2003), "Rank-Based Dickey-Fuller Test Statistics," *Journal of Time Series Analysis,* 24, 647-662.
28. Lee, M., Nziramasanga, M., and **Ahn, S. K.** (2004), "Transformation Strategy and Economics Performance: Hungary and Poland," *Eastern European Economics,* 42, 25-42.
29. **Ahn, S. K.**, Cho, S., and Seong, B. C. (2004), "Inference of Seasonal Cointegration: Gaussian Reduced Rank Estimation and Tests for Various Types of Cointegration," *Oxford Bulletin of Economics and Statistics*, 66, 261-284.
30. Yeo, J., **Ahn, S. K**., and Holland, D. (2005), "Labor Market Behavior in Washington: A Cointegration Approach," *Annals in Regional Science*, 39, 317-335.
31. Seong, B. C., **Ahn, S. K.**, and Cho, S. (2006), "Maximum Eigenvalue Test for Seasonal Cointegrating Ranks," *Oxford Bulletin of Economics and Statistics*, 68, 497-514.
32. Seong, B. C., Morshed, A. K. M., and **Ahn, S. K**. (2006), "Additional Sources of Bias in Half-life Estimation," *Computational Statistics and Data Analysis*, 51, 2056-2064.
33. Morshed, A. K. M., **Ahn, S. K**., and Lee, M. (2006), "Price Index Convergence among Indian Cities: A Cointegration Approach," *Journal of Asian Economics*, 17, 1030-1043.
34. Rangkakulnuwat, P. and **Ahn, S. K.** (2006), "Price Convergence in Thailand," *International Economics and Finance Journal*, 1, 233-245.
35. Rangkakulnuwat, P., Wang, H., and **Ahn, S. K.** (2007), "The Inverse Imported Factor Demand System in Thailand: A Cointegration Aalysis," *Economics Letters*, 94, 402-407.
36. Seong, B. C., Cho, S., and **Ahn, S. K.** (2007), "Inference of Seasonal Cointegration with Linear Restrictions," *Journal of Statistical Computation and Simulation*, 77, 593-603.
37. Seong, B., **Ahn, S. K.**, and Jeon, Y., (2008), "A Note on Spurious Regression in Seasonal Time Series," *Journal of Statistical Computation and Simulation*, 78, 843-851.
38. Seong, B., Cho, S., **Ahn, S. K.**, and Hwang, S. Y. (2008), "Effects of the Misspecification of Cointegrating Ranks in Seasonal Cointegration," *Korean Journal of Applied Statistics*, 21, 783-789.
39. Baharumshah, Ahmad Z., Mohd, Siti H., and **Ahn, Sung K.** (2009), "On the Predictive Power of Monetary Exchange Rate Model: The Case of the Malaysian Ringgit/U.S. Dollar Rate," *Applied Economics*, 41, 1761-1770.
40. Rangkakulnuwat, P., **Ahn, S. K.**, Wang, H., and He, S. (2010), "Extended Generalized Purchasing Power Parity and Optimum Currency Area in East Asian Countries," *Applied Economics*, 42, 497-513.
41. Ge, Y., Wang, H. H., and **Ahn, S. K.** (2010), "Cotton Market Integration and the Impact of China's New Exchange Regime," *Agricultural Economics*, 41, 443-451.

Publications (continued)

42. Seung, C. K. and **Ahn, S. K.** (2010), "Forecasting Industry Employment for a Resource-based Economy Using Bayesian Vector Autoregressive Models," *Review of Regional Studies*, 40, 181-196.
43. Park, S. K., **Ahn, S. K**., and Cho, S. (2011), "Generalized Method of Moment Estimation for Cointegrated Vector Autoregressive Models," *Computational Statistics and Data Analysis*, 55, 2605-2618.
44. Seong, B. C., **Ahn, S. K**., and Cho, S. (2011), "Semiparametric Seasonal Cointegrating Rank Selection," *Korean Journal of Applied Statistics*, 24, 791-797.
45. Rangkakulnuwat, P., Morshed, A., M., Wang, H. H., and **Ahn, S. K.** (2012), "Price Convergence in US Cities: A Cointegration Approach with Two Structural Breaks," *Applied Economics*, 44, 1849-1862.
46. Seong, B., **Ahn, S. K.**, and Zadrozny, P. (2013), "Estimation of Vector Error Correction Models with Mixed-Frequency Data," *Journal of Time Series Analysis*, 34, 194-205.
47. **Ahn, S. K**., Hong, H., and Cho, S. (2015), "Estimation of Cointegrated Models with Exogenous Variables," *Journal of Statistical Computation and Simulation*, 85, 1945-1962.
48. Soon, Siew-Voon, Baharumshah, Baharumshah, Ahmad Z., and **Ahn, Sung K.** (2015), "Real Exchange Rate Dynamics in the Asian Economies: Can the Regime Shifts Explain PPP Puzzles?" *Global Economic Review*, 44, 219-236.
49. Hong, H. **Ahn, S. K**., and Cho, S. (2016), "Analysis of Cointegrated Models with Measurement Errors," *Journal of Statistical Computation and Simulation*, 86, 623-639.

Submitted Papers

1. Lee, B., Lim, A., Owusu, B. E., and **Ahn, S. K.** (2016), "Forecasting world tuna catches using an autoregressive quintic spline model," *Submitted to Fisheries Research*.
2. Hong, H. **Ahn, S. K**., and Cho, S. (2016), "Adjustment for Measurement Errors in Cointegration Analysis," *Submitted to the Journal of Time Series Analysis*.

Proceedings

1. **Ahn, S. K.** (1991), "Lagrange Multiplier Test for Unit Roots in Seasonal Time Series with Deterministic Trends," *Proceedings of the Kangwon, Kyunggi, and Inchon Regional Meetings of the Korean Statistical Society,* pp. 1-13.
2. **Ahn, S. K.** (1992), "Some Tests for Unit Roots in Time Series with Deterministic Trends," *Proceedings of the Business and Economic Statistics Section, American Statistical Association,* pp. 51-55.
3. **Ahn, S. K.** (1994), "Reduced Rank Estimation of Vector Autoregressive Models with Co-integration and Co-dependence," *Proceedings of the Business and Economic Statistics Section, American Statistical Association,* pp. 151-156.
4. **Ahn, S. K.**, Park, Y. J., and Cho, S. (1996), "Model Misspecification in Seasonal Time Series with Unit Roots," *Proceedings of the Spring Conference, Korean Statistical Society,* pp. 177-182.
5. Chung, Y. and **Ahn, S. K.** (1996), "Searching for Common Trends and Common Cycles in Korean Disaggregate Wage Data," *Proceedings of the Korean Econometric Society,* pp. 687-699.
6. **Ahn, S. K.**, and Fotopoulos, S. B. (1999), "Tests for Unit Roots: A Review and New Results," *Proceedings of the 1999 World Congress of Korean Scientists and Engineers: Mathematics and Statistics Section*, pp.90-96.
7. **Ahn, S. K.**, and Fotopoulos, S. B. (2000), "A Study of Rank Based Unit Root Tests," *Proceedings of the Business and Economic Statistics Section, American Statistical Association (in CD).*

Publications (continued)

8. **Ahn, S. K** (2001), "Discussion for IPM 02: Statistics in Korea: History, Role in Economic Development and Current Statistical System," *Proceedings of the 53rd Session of the International Statistical Institute,* Book 3, pp. 44-45.
9. **Ahn, S. K.** (2002), "A Note on Inference of Seasonal Cointegration," *Proceedings of WCSE/UKC 2002 (in CD).*
10. Rangkakulnuwat, P., **Ahn, S. K.** (2006), "Price Index Convergence in Thailand," *Proceedings of the Pan Pacific Conference XXIII*, pp. 292-294.
11. Seong, B., Cho, S., **Ahn, S. K.**, and Hwang, S. Y. (2006), "Mis-specification of Cointegrating Ranks in Seasonal Models," *Proceedings of the Business and Economic Statistics Section, American Statistical Association,* pp. 1141-1147.
12. Seong, B., Cho, S., Hwang, S. Y., and **Ahn, S. K.** (2006), "Effects of Mis-specification of Seasonal Cointegrating Ranks: An Empirical Study," *Proceedings of Seasonality, Seasonal Adjustment and Their Implications for Short-term Analysis and Forecasting, Eurostat.*
13. Rangkakulnuwat, P., **Ahn, S. K.**, Wang, H., and He, S. (2007), "Cointegration Analysis with Structural Breaks of Extended Generalized Purchasing Power Parity: An Application to Selected Asia Countries," *Proceedings of the Third China-Japan-Korea Business Conference*, pp. 442-451.
14. Rangkakulnuwat, P., Morshed, A., M., Wang, H. H., and **Ahn, S. K.** (2009), "Price Convergence and Monetary Policy in United States Cities: A Cointegration Approach with Two Structural Breaks," *Proceedings of the International Multi-Conference of Engineers and Computer Scientists 2009, Vol. II,* pp. 2038-2041.

<u>Papers Under Preparation or Unpublished Manuscripts</u>

1. Lee, M., **Ahn, S. K.**, and Nziramasanga, M. (2002), "Real Exchange Rate Determination and Generalized Purchasing Power Parity: New Zealand and Australia," *EconModel.com of the Journal of Policy Modeling.*
2. Lee, Moo Y., **Ahn, S. K.,** and Montgomer, S. T. (2006), "Statistical Analysis of Factors Affecting the Strength of the Alumina Loaded Epoxy Material" *Technical Report, SAND 2006-0513*, Sandia National Laboratories, Albuquerque, NM.
3. Seong, B., **Ahn, S. K.** and Zadrozny P. (2007), "Cointegration Analysis with Mixed Frequency Data," *CESifo Working Paper No. 1939.*
4. Garber-Yonts, B. Seung, C. K., Dalton, M. G, and **Ahn, S. K.** (2015), "Estimating Relationships among Variables in Alaska Crab Data with Measurement Errors."
5. Fotopoulos, S. B., Wang, J., and **Ahn, S. K.** (2016), "On the Exact Distribution of the Maximum of Elliptically Contoured Distributed Random Variables."

Paper Presentations

1. "Nested Reduced Rank Autoregressive Models for Multiple Time Series," Annual Meetings of the American Statistical Association, San Francisco, August, 1987 (with G. C. Reinsel).
2. "Estimation of Partially Nonstationary Multivariate Autoregressive Models," Annual NBER/NSF Time Series Conference, Raleigh, October, 1987 (with G. C. Reinsel).
3. "A Study of Partially Nonstationary Vector Autoregressive Models With Seasonal Behavior," Annual Meetings of the American Statistical Association, Anaheim, August, 1990.
4. "Estimation of Partially Nonstationary Vector Autoregressive Models With Seasonal Behavior," Summer Research Conference in Multivariate Time Series Analysis, Seattle, June, 1991.
5. "Lagrange Multiplier Test for Unit Roots in Seasonal Time Series in the Presence of Deterministic Trends," Spring Conference of the Korean Statistical Society, Seoul, August, 1991.
6. "Deviations between Sample Quantiles and Empirical Processes under Absolute Regular Properties," Annual Meetings of the American Statistical Association, Atlanta, August, 1991 (with S. B. Fotopoulos).
7. "Estimation of Partially Nonstationary Vector Autoregressive Models With Seasonal Behavior," Annual NBER/NSF Time Series Conference, Pittsburgh, September, 1991.
8. "Some Tests for Unit Roots in Time Series with Deterministic Trends," Annual Meetings of the American Statistical Association, Boston, August, 1992.
9. "Tests for Seasonal Unit Roots in the Presence of Deterministic Trends," Annual Meetings of the American Statistical Association, San Francisco, August, 1993.
10. "Inferences of Vector Autoregressive Models with Cointegration and Codependence," Spring Conference of the Korean Statistical Society, Chungju, Korea, May, 1994.
11. "Reduced Rank Estimation of Vector Autoregressive Models with Cointegration and Codependence," Annual Meetings of the American Statistical Association, Toronto, Canada, August, 1994.
12. "Model Misspecification in Seasonal Time Series with Unit Roots," Spring Conference of the Korean Statistical Society, Daejon, Korea, May, 1996 (with Y. J. Park and S. Cho).
13. "Searching for Common Trends and Common Cycles in Korean Disaggregate Wage Data," Annual Meetings of the Korean Econometric Society, Seoul, November, 1996 (with Y. Chung).
14. "Inference of Unit Roots: A Review and New Results," 1999 World Congress of Korean Scientists and Engineers, Seoul, July, 1999.
15. "A Study of Rank Based Unit Root Tests," Invited Session, Annual Meetings of the American Statistical Association, Indianapolis, August, 2000.
16. "Real Exchange Determination and Generalized Purchasing Power Parity: New Zealand and Australia" (With Minsoo Lee), Annual Meetings of the New Zealand Association of Economists, Christ Church, New Zealand, June 2001.
17. "Real Exchange Determination and Generalized Purchasing Power Parity: New Zealand and Australia" (With Minsoo Lee), Annual Econometric Society Australasian Meetings, Auckland, New Zealand, July, 2001.
18. "Real Exchange Determination and Generalized Purchasing Power Parity: New Zealand and Australia" (With Minsoo Lee), The 30th Annual Conference of Economists, Perth, Australia, September, 2001.
19. "Inference of Seasonal Co-integration" Joint conference of the U.S.-Korea Conference on Science, Technology, and Entrepreneurship and the World Congress of Korean and Korea Ethnic Scientists and Engineers, Seoul, July, 2002.

Paper Presentations (continued)

20. "Price Index Convergence Among Indian Cities: A Cointegration Approach" (With A. M. Morshed), The 14th Annual Meeting of the Midwest Econometrics Group, Chicago, October, 2004.
21. "Price Index Convergence Among Indian Cities: A Cointegration Approach" (With A. M. Morshed), The 2nd Minnesota International Economic Development Conference, Minneapolis, April, 2005.
22. "Cointegration Analysis with Mixed Frequency Data," NSF/NBER Satellite Workshop on Financial Risk and Time Series Analysis, Munich, Germany, September, 2005.
23. "Effects of Mis-specification of Seasonal Cointegration Ranks: An Empirical Study," Eurostat, the Statistical Office of the European Communities, Conference on "Seasonality, Seasonal Adjustment and Their Implications for Short-Term Analysis and Forecasting," Luxembourg, May 2006.
24. "Cointegration Analysis with Mixed Frequency Data" (With B.C. Seong), Spring Meetings of the Korean Statistical Society, Taegu, Korea, May, 2006.
25. "Price Index Convergence in Thailand," (With P. Rangkakulnuwat) Pan Pacific Conference XXIII, Pusan, Korea, May, 2006.
26. "Mis-specification of Cointegrating Ranks in Seasonal Models" (With B.C. Seong), Joint Statistical Meetings, Seattle, August, 2006.
27. "Cointegration Analysis with Mixed Frequency Data" (With B.C. Seong), Joint Statistical Meetings, Salt Lake City, July, 2007.
28. "Cointegration Analysis with Structural Breaks of Extended Generalized Purchasing Power Parity: An Application to Selected Asia Countries," The Third China-Japan-Korea Business Conference, Tokyo, Japan, October, 2007.
29. "Effects of Mis-specification in Seasonal Cointegration" (With B.C. Seong), Fall Meetings of the Korean Statistical Society, Seoul, November, 2007.
30. "Extended Generalized Purchasing Power Parity and Optimum Currency Area in East Asian Countries," University of Vlora Finance Conference, Vlora, Albania, May, 2009.
31. "Estimation of Vector Error Correction Modes with Mixed Frequency Data," IMS-Asia Pacific Rim Meeting, Seoul, July, 2009.
32. "Semiparametric Seasonal Cointegrating Rank Selection" (With B.C. Seong), 19th International Conference on Computational Statistics, Paris, France, August, 2010.
33. "Cointegrated Models with Exogenous Variables" (With H. Hong), Fall Meetings of the Korean Statistical Society, Soowon, Korea, November, 2010.
34. "Analysis of Cointegrated Models with Measurement Errors" (With H. Hong), Fall Meetings of the Korean Statistical Society, Seoul, November, 2012.
35. "Analysis of Cointegrated Models with Measurement Errors," Joint Applied Statistics Symposium of International Chinese Statistical Association & Korean International Statistical Society, Portland, June 2014.
36. "Estimation of Relationships among Variables That Are Subject to Partially Unidentified Measurement Errors with Application to Alaska Crab Data," 2014 International Conference on Global System Risk in Food, Energy and Finance, Seoul, November 2104.
37. "Analysis of Cointegrated Models with Measurement Errors," 8th International Conference on Computational and Financial Econometrics, Pisa, Italy, December 2014.
38. "Adjustment for the Effects of Measurements Errors Using Instrumental Variables and Mixed Models," 9th International Conference on Computational and Financial Econometrics, London, Great Britain, December 2015. (With Hanwoom Hong)

Invited Talks

1. "Partially Nonstationary Vector Autoregressive Models: Estimation and Test for Unit Roots," Department of Mathematics and Statistics, Wright State University, June, 1989.
2. "Estimation of Partially Nonstationary Multivariate Autoregressive Models," Department of Management and Systems and the Program in Statistics, Washington State University, November, 1989.
3. "Estimation of Partially Nonstationary Vector Autoregressive Models With Seasonal Behavior," Department of Management and Systems, Washington State University, September, 1991.
4. "Lagrange Multiplier Test for Unit Roots in ARIMA Models in the Presence of Deterministic Trends," Department of Management and Systems and the Program in Statistics, Washington State University, March, 1992.
5. "Cointegration and Common Trends in Treasury Bill Yields: A Test with Weekly Data," Department of Economics, Washington State University, November, 1992.
6. Discussant of the Paper "Robust Nonstationary Regression" by P. C. B. Phillips, Yale-NSF Conference on Trending Multiple Time Series, New Heaven, October, 1993.
7. "Inferences of Vector Autoregressive Models with Cointegration and Codependence," Department of Management and Systems, Washington State University, March, 1994.
8. "Recent Development in Time Series Analysis: Cointegration and Codependence," Korea Finance Research Institute, Seoul, Korea, May, 1994.
9. "Application of Time Series Analysis in Social Sciences," Research Institute for Humanity and Social Sciences, Inje University, Kimhae, Korea, May, 1994.
10. "Overview of Inferences of Time Series with Unit Roots," Department of Statistics, Inha University, Inchon, Korea, May, 1994.
11. "Application of Time Series Analysis in Social Sciences," College of Business and Economics, Seoul City University, Seoul, Korea, May, 1994.
12. "Inferences of Vector Autoregressive Models with Cointegration and Codependence," Korea Development Institute, Seoul, Korea, June, 1994.
13. "Inference of Unit Roots: Overview," Department of Computer Science and Statistics, Seoul National University, Seoul, Korea, June, 1994.
14. "Inferences of Vector Autoregressive Models with Cointegration and Codependence," Korean Econometric Society, Seoul, Korea, June, 1994.
15. "Some Tests for Unit Roots in Autoregressive Integrated Moving Average Models with Deterministic Trends," Department of Applied Statistics, Korea University, Seoul, Korea, June, 1994.
16. "Inferences of Vector Autoregressive Models with Cointegration and Codependence," Department of Economics, Hitotsubashi University, Kunitachi, Japan, June, 1994.
17. "Recent Developments in Nonstationary Time Series: A Review," Department of Mathematics, Pohang University of Science and Technology, Pohang, Korea, September, 1995.
18. "Recent Developments in Nonstationary Time Series: A Review," Department of Statistics, Chungbuk National University, Chongju, Korea, October, 1995.
19. "Recent Developments in Nonstationary Time Series: A Review," Department of Statistics, Soongsil University, Seoul, Korea, December, 1995.
20. "Recent Developments in Nonstationary Time Series: A Review," Department of Agricultural Marketing, National Chong Hsing University, Taichung, Taiwan, February, 1996.
21. "Structural Parameterization and Cointegration in Vector Time Series: A Review and New Results," Monthly Meeting of the Time Series Study Group, Taipei, Taiwan, February, 1996.

Invited Talks (continued)

22. "Model Misspecification in Nonstationary Seasonal Time Series," Institute of Economics, Academia Sinica, Taipei, Taiwan, February, 1996.
23. "Model Misspecification in Nonstationary Time Series," Department of Statistics, Chungang University, Seoul, Korea, April, 1996.
24. "Model Misspecification in Nonstationary Time Series," Department of Statistics, Chungnam National University, Daejeon, Korea, April, 1996.
25. "Model Misspecification in Nonstationary Time Series," Department of Statistics, Chonbuk National University, Chonju, Korea, April, 1996.
26. "Seasonal Cointegration and Model Misspecification," Department of Statistics, Seoul National University, Seoul, Korea, May, 1996.
27. "Seasonal Cointegration and Model Misspecification," Department of Statistics, Ewha Womans University, Seoul, Korea, May, 1996.
28. "Model Misspecification in Nonstationary Time Series," Department of Statistics, Inha University, Inchon, Korea, May, 1996.
29. "Model Misspecification in Nonstationary Time Series," Department of Statistics, Inje University, Kimhae, Korea, June, 1996.
30. "Model Misspecification in Nonstationary Time Series," Department of Statistics, Pusan National University, Pusan, Korea, June, 1996.
31. "Model Misspecification in Nonstationary Seasonal Time Series," Program in Statistics, Washington State University, October 1996.
32. "Seasonal Cointegration and Model Misspecification," Department of Management and Systems, Washington State University, November, 1996.
33. "Recent Developments in Nonstationary Time Series: A Review," Korea Rural Economic Institute, Seoul, Korea, May, 1997.
34. Discussant of the Paper "Parameteizing Currency Risk: The Case of the USD/AUD Exchange Rate" by G. C. Lim and P. D. McNelis, Third International Conference on Financial Econometrics, Juneau, July, 1997.
35. "Inference of Unit Roots: A Review and New Results," Institute of Social Studies, Yeungnam University, Kyungsan, Korea, June, 1999.
36. "Inference of Unit Roots: A Review and New Results," Department of Statistics, Soongsil University, Seoul, Korea, July, 1999.
37. "Inference of Unit Roots: A Review and New Results," Department of Statistics, Inha University, Inchon, Korea, July, 1999.
38. "Unit Root Tests with Infinite Variance Errors," Program in Statistics, Washington State University, November,1999.
39. "Unit Root Tests with Infinite Variance Errors," Department of Statistics, Sookmyung Women's University, Seoul, Korea, July, 2000
40. "Unit Root Tests with Infinite Varia nce Errors," Department of Statistics, Chungbuk National University, Chongju, Korea, July, 2000.
41. Discussant of the Invited Session on "Statistics in Korea: History, Role in Economic Development and Current Statistical System," The 53rd Sessions of the International Statistical Institute, Seoul, Korea, August, 2001.
42. "Recent Developments in Multivariate Time Series: Cointegration and Reduced Rank Estimation," Department of Mathematics, Portland State University, May, 2002.
43. "Inference of Seasonal Cointegration: Introduction," Department of Statistics, Inha University, Inchon, Korea, April, 2003.
44. "Inference of Seasonal Cointegration," Department of Statistics, Seoul National University, Seoul, Korea, April, 2003.

Invited Talks (continued)

45. "Inference of Seasonal Cointegration," Department of Mathematics, Pohang University of Science and Technology, Pohang, Korea, June, 2003.
46. "Half-Lives, Why Are They Different?" Department of Statistics, Washington State University, November, 2004.
47. "Recent Developments in Multivariate Time Series: Cointegration and Reduced Rank Estimation," Faculty of Business Administration, Chiang Mai University, Thailand, July, 2005.
48. "Cointegration Analysis with Mixed Frequency Data," Department of Statistics, Sookmyung University, Seoul, Korea, November, 2005.
49. "Estimation of Vector Error Correction Modes with Mixed Frequency Data," Department of Economics, European University Institute, Florence, Italy, March, 2009.
50. "Estimation of Vector Error Correction Modes with Mixed Frequency Data," Einaudi Institute for Economics and Finance (Bank of Italy), Rome, Italy, March, 2009.
51. "Research: Miscellanea," Assumption University, Bangkok, Thailand, July, 2009.
52. "Review of Reduced Rank Regression and Its Application to Time Series," Department of Statistics, Inha University, Inchon, Korea, April, 2010.
53. "Review of Reduced Rank Regression and Its Application to Time Series," Department of Statistics, Choongang University, Seoul, Korea, May, 2010.
54. "Estimation of Cointegrated Models with Exogenous Variables," Department of Economics, European University Institute, Florence, Italy, March, 2011.
55. "Estimation of Cointegrated Models with Exogenous Variables," Center for Economics and International Studies, University of Roma II – Tor Vergata, Rome, Italy, April, 2011.
56. "Estimation of Cointegrated Models with Exogenous Variables," Department of Food and Resource Economics, Korea University, Seoul, Korea, August, 2012.
57. "Estimation of Cointegrated Models with Exogenous Variables," Department of Mathematical Sciences, University of Nevada-Las Vegas, December, 2012.
58. "Estimation of Cointegrated Models with Exogenous Variables," Department of Mathematics and Statistics, Wright State University, January, 2013.
59. "Analysis of Cointegrated Models with Measurement Errors," Department of Food and Resource Economics, Korea University, Seoul, Korea, July, 2014.

Other Professional Meetings Attended

1. Annual Meetings of the American Statistical Association, Chicago, August, 1986.
2. Annual NBER/NSF Time Series Conference, Chicago, October, 1988.
3. Annual Winter Conference of the American Statistical Association, Orlando, January, 1990.
4. Time Series Workshop by the Institute for Mathematics and Its Applications, Minneapolis, July, 1990.
5. Annual NBER/NSF Time Series Conference, San Diego, October, 1990.
6. The Eighth Annual Conference of Making Statistics More Effective in Schools of Business, Minneapolis, June, 1993.
7. Annual NBER/NSF Time Series Conference, Fort Collins, September, 1994.
8. International Conference on Statistical Methods and Statistical Computing for Quality and Productivity Improvement, Seoul, Korea, August, 1995.
9. Autumn Conference of the Korean Statistical Society, Seoul, Korea, November, 1995.
10. Annual Meetings of the Korean Econometric Society, Seoul, Korea, December, 1995.

Other Professional Meetings Attended (continued)

11. Workshop on statistical computing and quality control jointly offered by the Statistical Computing Section and Engineering Statistics Section of the Korean Statistical Society, February, 1996.
12. Annual Meetings of the American Statistical Association, Chicago, August, 1996.
13. Spring Conference of the Korean Statistical Society, Iksan, Korea, May, 1997.
14. Annual Meetings of the American Statistical Association, Anaheim, August, 1997.
15. Annual NBER/NSF Time Series Conference, Chicago, September, 1998.
16. Econometrics and Financial Time Series Workshop at the Newton Institute of Mathematical Sciences, Cambridge, England, October, 1998.
17. Annual Meetings of the American Statistical Association, Baltimore, August, 1999.
18. Annual NBER/NSF Time Series Conference, Fort Collins, September, 2000.
19. 2001 Sino-American Forum on Business Management and Entrepreneurship, Chengdu, China, July 2001.
20. Annual NBER/NSF Time Series Conference, Raleigh, September, 2001.
21. Annual NBER/NSF Time Series Conference, Chicago, September, 2003.
22. Annual NBER/NSF Time Series Conference, Dallas, September, 2004.
23. U.S.-Korea Conference on Science, Technology, and Entrepreneurship, Irvine, August, 2005.
24. Annual NBER/NSF Time Series Conference, Heidelberg, Germany, September, 2005.
25. Annual NBER/NSF Time Series Conference, Montreal, Canada, September, 2006.
26. Annual NBER/NSF Time Series Conference, Iowa City, September, 2007.
27. International Conference on Business and Information, Seoul, July, 2008.
28. Workshop on Current Trends and Challenges in Model Section and Related Areas, Vienna, July 2008.
29. U.S.-Korea Conference on Science, Technology, and Entrepreneurship, San Diego, August, 2008.
30. Annual Meetings of the American Statistical Association, Washington D.C., August, 2009.
31. Annual Meetings of the American Statistical Association, Vancouver, Canada, August, 2010.
32. Annual NBER/NSF Time Series Conference, Durham, October, 2010.
33. Conference on Statistical Inference and Numerical Analysis for Stochastic Processes and Financial Econometrics, University of Florence, Florence, Italy, March, 2011.
34. NBER/NSF Seminar on Bayesian Inference in Econometrics and Statistics, St. Louis, May, 2013.
35. R/Finance 2013: Applied Finance with R, Chicago, May, 2013.
36. Annual NBER/NSF Time Series Conference, Washington, D.C., September, 2013.
37. Workshop: Recent Development in Econometrics and Time Series, Madrid, Spain, October, 2016.

Other Professional Activities

1. Served as a referee of the following journals since 1986: *Journal of the American Statistical Association, Econometrica, Biometrika, Journal of Econometrics, Journal of Time Series Analysis, Econometric Theory, Journal of Business and Economic Statistics, Statistics and Probability Letters, Scandinavian Journal of Statistics, Communications in Statistics, Statistica Sinica, Oxford Bulletin of Economics and Statistics, Journal of Computational and Graphical Statistics, American Journal of Mathematical and Management Sciences, International Journal of Management Theory and Practices, Journal of Applied Statistical Science, Estadistica, Sankhya, Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference, North American Actuarial Journal, International Journal of Business and Economics, Review of Applied Economics, Journal of Parallel and Distributed Computing, Journal of Multivariate Analysis, International Economics and Finance Journal, International Journal of Theoretical and Applied Finance, Marketing Science, Journal of Forecasting, Econometric Journal, Statistical Methodology, The Manchester School, Econometric Reviews, Computational Statistics and Data Analysis, International Journal of Forecasting, Journal of the Korean Statistical Society*.
2. Served as a reviewer of grant proposals for the NSF six times since 1988.
3. Served as a reviewer of textbooks for the following publishers since 1989: Irwin, PWS-Kent, Dryden Press, McGraw Hill, Duxbury, Springer-Verlag, Burrston House, and Pearson.
4. Assistant Scientist, Program in Statistics, Summer 1991.
5. Reviewer for *Mathematical Reviews*, 1994 to 200.
6. Visiting Scholar, Institute of Statistical Science, Academia Sinica, Taipei, Taiwan, February, 1996.
7. Chair of a contributed session of the Business and Economic Statistics Section of the 1996 Annual Meetings of the American Statistical Association, Chicago, August, 1996.
8. Organizer of an invited session entitled “Recent Developments in Multivariate Time Series Analysis,” for the General Methodology Section of the 1996 Annual Meetings of the American Statistical Association, Chicago, August, 1996.
9. Session chair at the Annual NBER/NSF Time Series Conference, Chicago, September, 1998.
10. Book Reviewer for *the Journal of the American Statistical Association*.
11. Chair of a contributed session of the Business and Economic Statistics Section of the 1999 Annual Meetings of the American Statistical Association, Baltimore, August, 1999.
12. Consultant and Member of the Board of Directors of StatConsult, Korea, July 2000 to 2005.
13. Member of the Research Advisory Board e*Value, Korea, July 2000 to Dec. 2008.
14. Organizer and Chair of the Invited Statistics Session for the joint conference of the U.S.-Korea Conference on Science, Technology, and Entrepreneurship and the World Congress of Korean and Korea Ethnic Scientists and Engineers, Seoul, July 2002.
15. Fulbright Senior Specialist in the Economics discipline, 2002-2006.
16. Associate Editor of the *Journal of Statistical Computation and Simulation*, 2002 to present.
17. Distinguished Editorial Advisor of *Review of Applied Economics*, 2004 to present.
18. Editorial Board Member of *International Economics and Finance Journal*, 2005 to 2013.
19. Affiliate Professor, School of Economics, University of the Thai Chamber of Commerce, Bangkok, Thailand, 2005 to present.
20. Organizer and Chair of an Invited Session of the Business and Economics Section for the 2007 Joint Statistical Meetings.

Other Professional Activities (continued)

21. Graduate Faculty of Purdue University, December 2007 to December 2010.
22. Organizer and Co-Chair of the Symposium on Statistics, Biostatistics, and Bioinformatics for the 2008 US-Korea Conference on Science, Technology, and Entrepreneurship, San Diego, August 2008.
23. Served as a reviewer of grant proposals for the Social Sciences and Humanities Research Council of Canada in 2008.
24. Organizer and Chair of an Invites Session of the Inaugural Asian Pacific Rim Meeting of the Institute of Mathematical Statistics, Seoul, Korea, June 2009.
25. Fernand Braudel Senior Fellow, European University Institute, Florence, Italy, February to May, 2011.
26. Invited Session Chair of the 2011 Korean Statistical Society Conference on Statistics and Probability, Busan, Korea, July, 2011.
27. Adjunct Professor, International Summer Campus at Korea University, 2012, 2013, 2014.
28. Co-Editor of the *Communications for Statistical Applications and Methods*, 2012 to 2015.
29. Session Chair of the 8th International Conference on Computational and Financial Econometrics, Pisa, Italy, December 2014.
30. Associate Editor of *Econometrics and Statistics*, 2015 to present

Grants

1. Summer Development Grant, College of Business and economics, Washington State University, Summer, 1990.
2. Summer Research Grant, Office of Grant and Research Development, Washington State University, June, 1991.
3. Korean Science and Engineering Foundation, July, 1991.
4. Boeing International Travel Grant, College of Business and Economics, Washington State University, March, 1994.
5. Korean Science and Engineering Foundation, May, 1994.
6. Boeing International Travel Grant, International Business Institute, Washington State University, April, 1997.
7. Summer Research Grant, College of Business and Economics, Washington State University, Summer, 1997.
8. Boeing International Travel Grant, International Business Institute, Washington State University, April, 1998.
9. Summer Research Grant, College of Business and Economics, Washington State University, Summer, 1998.
10. Boeing International Travel Grant, International Business Institute, Washington State University, May, 1999.
11. Fulbright Senior Specialist Grant, July, 2002.
12. Mini Research Grant, International Business Institute, Washington State University, February 2004.
13. Teaching Innovation Grant, College of Business and Economics, Washington State University, May 2005.
14. Research Contract (A0368-104542), Sandia National Laboratories, May to July 2005. ($12,000).
15. Basic Science Research Grant (#KRF-2005-070-C00022), Korea Research Foundation, September 2005 to August 2008. (Co-investigator, KRW 567,480,000).
16. Research Contract (A0368-109776), Sandia National Laboratories, December 2007 - August 2008. ($33,378).

Grants (continued)

17. Research Grant, Institute for Research in Finance and Economics, Seoul National University, September 2009 - August 2010. (Co-investigator, KRW 15,000,000).
18. Research Contract (A0368-115456), Sandia National Laboratories, July 2010 – December 2010. ($54,995).
19. Consulting Project, Alaska Fisheries Science Center, NOAA, July 2011-June 2013. ($43,000).

Listings

1. Who'sWho in America
2. Who'sWho in Sciences Higher Education

Awards

1. Excellent Graduate Student Award, Department of Mathematics, Wright State University, December 1982.
2. Outstanding Faculty Research/Scholarship Award, College of Business and Economics, Washington State University, May 1997.
3. Dean's Fellow, College of Business, 2003, 2007, 2009.
4. Fellow of the American Statistical Association, 2009.
5. Outstanding Alumnus of the Wright State University Graduate School, 2013.

Research Interests

Time Series Analysis and Forecasting	Multivariate Analysis
Statistical Computing	Statistical Quality Control

Linear and Nonlinear Regression and Generalized Linear Models
Design of Experiments and Response Surface Methodologies

Courses Taught

MBA Statistics	Introductory Business Statistics
Regression Analysis	Decision Analysis
Time Series Analysis	Multivariate Analysis
Mathematical Statistics	Introductory Statistics for Engineers and Scientists

Short Courses Taught

1. Minitab Statistical Software at the College of Business and Economics and the Program in Statistics, August, 1990
2. SCA Statistical Software at the workshop sponsored by the Korean Statistical Society in Seoul, July, 1991
3. Nonstationary Time Series at the workshop sponsored by the Statistical Research Institute and the Economics Research Institute of the Seoul National University in Seoul, July, 1991
4. Time Series Workshop at Prince of Songlka University in Thailand, July 2002
5. Multivariate Statistical Analysis Workshop at Prince of Songlka University in Thailand, August 2002

Short Courses Taught (continued)

6. Recent Developments in Multivariate Time Series: Cointegration and Reduced Rank Estimation," Statistics Research Center, Seoul National University, Seoul, Korea, March, 2003.
7. Multivariate Time Series and Cointegration, Department of Statistics, Sookmyung Women's University, Seoul, Korea, December, 2007.
8. Conditional Heteroskedastic Models, University of the Thai Chamber of Commerce, July, 2008.
9. Multivariate Statistical Methods, University of the Thai Chamber of Commerce, July, 2009.
10. Reduced Rank Regression, Einaudi Institute for Economics and Finance (Bank of Italy), May, 2011.

Memberships

American Statistical Association
Korean Statistical Society
Korean International Statistical Society
Korean-American Scientists and Engineers Association
Korean-American University Professors Association

Services

1. Student representative to the Curriculum and degree requirements committee of the Department of Statistics, University of Wisconsin, 1986-1987
2. Ph. D. Examination committees of the following students: Mr. Hag-Min Kim (Management and Systems); Mr. Shi-Hyu Chou (Management and Systems); Ms. Jeanne Yamamura (Accounting); Mr. Jeung-Lak Lee (Economics); Mr. Greg Black (Marketing); Mr. V. S. Raghavan (Economics), Mr. A. Akcoraoglu (Economics), Mr. K. P. Parboteeah (Management and Decision Sciences), Mr. Lijian He (Management and Decision Sciences), Mr. Minsoo Lee (Economics), Mr. Jinfeng Yue (Management and Decision Sciences), Mr. Tomas Mosquera (Economics), Mr. Chris Annala (Economics), Mr. Junho Yeo (Agricultural Economics), Mr. Kim-Heng Chen (Management and Decision Sciences), Mr. Byeongchan Seong (Statistics, Seoul National University), Mr. Hyuk-Soo Cho (International Business), Ms. Amonrat Thoumrungroje (International Business), Mr. Poomthan Rangkakulnuwat (School of Economic Sciences, Co-chair), Mr. Jae Wook Yoo (Management and Operations), Mr. Daegun Song (Statistics, Seoul National University), Mr. Joshua Utt (School of Economic Sciences), Mr. Sridar Komar (School of Economic Sciences), Mr. Michael McCullough (School of Economic Sciences), Ms. Wei Li (Accounting), Mr. Dae-Il Nam (Management and Operations), Mr. Dave Berger (Finance), Ms. Elena Khapalova (Management and Operations), Ms. Sukkyung Park (Statistics, Seoul National University), Mr. Yuanlong Ge (Agricultural Economics, Purdue University), Ms. Erin Lu (Finance), Mr. Kainan Wang (Finance), Mr. Yuxing Luo (Management Science), Ms. Xiaotian Geng (Management Science), Ms. Chieh Lee (Management Science), Ms. Xiaohui Huang (Management Science), Mr. Jonathan Jackson (Management Science), Jun Wang (Management Science), Xun Xu (Management Science), Mr. Hanwoom Hong (Statistics, Seoul National University).

Services (continued)

3. Master’s examination committee of the following students: Mr. John Yong-Chan Kim (Economics), Mr. Jin-feng Yue (Program in Statistics), Mr. Junho Yeo (Program in Statistics, Chair), Mr. Poomthan Rangkakulnuwat (Statistics, Chair), Mr. Michael McCullough (Statistics, Chair), Mr. Yucan Liu (Statistics, Chair), Mr. Dustin Walton (Statistics, Chair), Mr. Michael Barns (Statistics, Chair), Yan Xing (Statistics)
4. MBA oral examination committees of the following students: Ms. Lori Kato, Ms. Yiingyu Chiang, Ms. Sylvia Quesada-Kahler, Ms. Chifang Lin, Mr. Charles T. Cassels, Mr. Kian Fang Tan, Ms. Tricia L. Goebel, Ms. Pantarin Munsakul, Ms. Julia Ye, Mr. Young-Kyu Kim, Ms. Emily Tan, Ms. Kristina M. Casey, Ms. Jennifer McDonnell, Ms. Liane Taylor, Ms. Amy Ehrstine, Mr. Dave McMillan, Ms. Jessica Breaker, Ms. Valerie Wong, Mr. Yoshiki Nakamoto, Ms. Marnie Zuehlsdorff, Ms. Jean Jones, Mr. William Stegman, Mr. Moonsoo Cheong, Mr. Kelly Tschida.
5. Graduate representative to the doctor's examinations, 1991 to present.
6. Improvement on the instruction committee of the Program in Statistics, 1990 to 1991.
7. Curriculum committee of the Program in Statistics, 1991 to 1992, 1998 to present.
8. Admission committee of the Decision Sciences Group in the Department of Management and Systems, 1991 to present.
9. Faculty recruiting committee of the Decision Sciences Group in the Department of Management and Systems, 1989 to 1991.
10. Master's degree committee and Brochure committee of the Program in Statistics, 1992 to 1994.
11. Graduate faculty of the Department of Management and Decision Sciences, 1989 to present.
12. Graduate faculty of the Program in Statistics, 1991 to present.
13. Curriculum committee of the College of Business and Economics, 1992 to 1993.
14. President of the Korean Statisticians in America, 1992 to 1995.
15. Faculty advisor of the Korean Student Association at Washington State University, 1993 to 1995, 1998 to2000.
16. Strategy integration committee of the Department of Management and Systems, 1993 to 1993.
17. Curriculum revision committee of the Department of Management and Systems, 1993 to 1995.
18. Judge in the Graduate and Professional Student Sixth Annual Research Exposition, 1993.
19. Faculty recognition committee of Washington State University, 1994 to 1994.
20. Furniture and interior design selection committee of the Department of Management and Systems, 1995.
21. Colloquium committee of the Program in Statistics, 1994 to 1997.
22. Ad hoc committee to redesign Math201/202 for business majors, 1994 to 1995.
23. Interim Secretary/Treasurer of the North America Chapter of the Korean Statistical Society, 1996 to 1997.
24. Faculty recruiting committees of a Production and Operation Management position and a Strategic Management position in the Department of Management and Systems, 1996 to 1997.
25. Vice President of the Northwest Chapter of the Korean American Scientists and Engineers Association, 1996 to 1998.
26. MBA Admissions Panel, 1997 to present.
27. Review committee of Boeing International Travel Grant Program, International Business Institute, WSU, 1997.
28. Council member of the International Business Institute, WSU, 1997 to2003.

Services (continued)

29. Faculty Senator, WSU, 1977 to 2003.
30. Faculty recruiting committees of a Production and Operation Management position in Vancouver branch campus, 1997 to 1998.
31. Curriculum committee of the International Business Institute, WSU, 1997 to 1999.
32. Web page coordinator, Department of Management and Systems, 1997 to present.
33. Professorial mentor at CBE, 1997 to 1998.
34. Colloquium committee of Decision Sciences, 1997 to 1999.
35. Principal of the Pullman Korean School, 1997 to 2000.
36. Career-guidance committee for Dr. Hao Zhang of the Program in Statistics, 1998 to 2002.
37. Coordinator of Decision Sciences 215: Statistics, 1998 to present.
38. President of the Northwest Chapter of the Korean American Scientists and Engineers Association, 1998 to 1999.
39. Curriculum committee of the College of Business and Economics, 1998 to 2002.
40. Honors, Awards, and Elections committee of the College of Business and Economics, 1998 to 1999.
41. Pullman MBA subcommittee, College of Business and Economics, 1998 to present
42. Faculty advisor of Tae Kwon Do Club of Washington State University, 1998 to 2001.
43. Computer users committee, College of Business and Economics, 1999 to 2000.
44. Chair of Review committee of the international research article award, International Business Institute, WSU, 1999.
45. President of the North America Chapter of the Korean Statistical Society, 1999 to 2002.
46. Mathematics curriculum advisory committee of the Pullman School District, 2000 to 2001
47. Review committee of the international research article award, International Business Institute, WSU, 2001.
48. Committee on committees of Washington State University, 2001 to 2003.
49. Graduate studies committee of the Program in Statistics, 2001 to present.
50. University advisory committee on computing and telecommunications Washington State University, 2001 to 2003.
51. Chair of the Review committee of Boeing International Travel Grant Program, International Business Institute, WSU, 2002.
52. Faculty recruiting committees of a Strategy/Organization Theory position, 2003.
53. Fellow of the International Business Institute, 2003 to present.
54. Chair of the Review committee of the International Travel Grant Program, International Business Institute, WSU, 2003 to 2004.
55. Curriculum task force committee, College of Business and Economics, 2004 to 2004.
56. Co-Advisor of the International Business Club, Washington State University, 2004 to 2004.
57. Undergraduate Program Policy Committee, College of Business and Economics, 2004 to 2005.
58. Research and Arts Committee, Washington State University, 2004 to 2006.
59. Graduate Program Policy Committee, College of Business and Economics, 2005 to 2006.
60. Diversity Task Force, College of Business and Economics, 2005 to 2006.
61. Reviewer of the research grant proposal for the University of Thai Chamber of Commerce. Jan., 2007.
62. Treasurer/Secretary of the Business and Economic Statistics Section of the American Statistical Association, January 2009 to December 2010.
63. MBA Task Force, College of Business, 2010 to 2011.
64. Master’s Program and Policy Committee, College of Business, 2011 to 2013.
65. Promotion and Tenure Committee, College of Business, 2012 to present.

Services (continued)

66. Admissions Subcommittee, Washington State University, 2013 to 2015.
67. Research Working Group, Carson College of Business, 2105 to present.
68. Provost’s Advisory Committee for Tenure and Promotion, 2016 to 2019.