

Seonjin Kim

CONTACT INFORMATION	334D Upham hall Department of Statistics Miami University Oxford, OH 45056, USA	<i>Tel:</i> (513)-529-2175 <i>Fax:</i> (513)-529-0989 <i>E-mail:</i> kims20@miamioh.edu
EDUCATION	The Pennsylvania State University, University Park, PA. Ph.D., Statistics, August 2013. Korea Advanced Institute of Science and Technology (KAIST), Deajeon, Republic of Korea. B.S., Applied Mathematics, February 2006.	
EMPLOYMENT	Associate Professor of Statistics, Miami University, July 2019–present. Assistant Professor of Statistics, Miami University, August 2013–June 2019.	
RESEARCH INTERESTS	Longitudinal models Time series Nonparametric methods Quantile regression	
HONORS AND AWARDS	International Statistical Institute (ISI) Elected member, 2020 Korean International Statistical Society Career Development Award 2015. Nonparametric Statistics Student Paper Award, American Statistical Association (ASA), Joint Statistical Meetings 2012. Department Scholarship, KAIST, 2003–2005.	
PUBLICATIONS	Accepted (all peer-reviewed; *: Miami Students, **: Students at other institutes): <ol style="list-style-type: none">1. Zambom, Z.A., Kim, S. and Garcia, N.L. (2021) Variable length Markov chain with exogenous covariates. <i>Journal of Time Series Analysis</i>, In press.2. Kim, S., Cho, H. and Kim, M. (2021) Predictive generalized varying-coefficient longitudinal model. <i>Statistics in Medicine</i>, In press.3. **Xu, Z., Kim, S., and Zhao, Z. (2021) Locally stationary quantile regression for inflation and interest rates. <i>Journal of Business and Economic Statistics</i>, In press. https://doi.org/10.1080/07350015.2021.1874389.4. Han, M.K. and Kim, S. (2021) Hearing Symptoms, Attitude towards Noise, and Use of Hearing Protection in Young Adults. <i>Communication Sciences & Disorders</i>, 26, 510–524 .5. Kim, S., Cho, H. and Wu, C. (2021) Risk-predictive probability models with application to the National Growth and Health Study. <i>Statistica Sinica</i>, 31, 1415–1439.	

6. Han, M.K. and **Kim, S.** (2020) A Study on the Korean-Version of Youth Attitudes to Noise Scale (K-YANS). *Communication Sciences & Disorders*, 25, 764–773.
7. Cho, H., **Kim, S.**, and Lee, M. (2020) Adjusting a subject-specific timing of event in longitudinal studies. *Statistical Methods in Medical Research*, 29, 1787–1798.
8. McLaughlin, S., **Kim, S.**, Li, L., Zhang, J. (2020) Educational differences in trajectories and determinants of healthy ageing in midlife and older Americans. *Maturitas*, 134, 21–28.
9. **Kim, S.**, Cho, H. and Zhang X. (2019) Initial severity-dependent longitudinal model with application to a randomized controlled trial of women with depression. *Statistics in Medicine*, 38, 1678–1689.
10. *Palma, D., **Kim, S.** and Miljkovic, T. (2019) Predictive Modeling of Obesity Prevalence for the United States Population. *North American Actuarial Journal*, 23, 64–81.
11. **Kim, S.**, Zhao, Z and Xiao, Z. (2018) Efficient estimation for time-varying coefficient longitudinal models. *Journal of Nonparametric Statistics*, 30, 680–702.
12. **Kim, S.** and Cho, H. (2018) Partially linear quantile regression for longitudinal studies. *Electronic Journal of Statistics*, 12, 824–850.
13. Cho, H. and **Kim, S.** (2017) Model specification test in a semiparametric regression model for longitudinal data. *Journal of Multivariate Analysis*, 160, 105–116.
14. Cho, H., **Kim, S.** and Kim M. (2017) Marginal quantile regression accounting for association across multiple quantiles. *Journal of Multivariate Analysis*, 155, 334–343.
15. Zambom, Z.A. and **Kim, S.** (2017) A nonparametric hypothesis test for heteroscedasticity in multiple regression models. *Canadian Journal of Statistics*, 45, 425–441.
16. Zambom, Z.A. and **Kim, S.** (2017) Lag selection and model validation in nonparametric autoregressive conditional heteroscedastic models. *Journal of Statistical Planning and Inference*, 186, 13–27.
17. **Kim, S.** and Zambom, Z.A. (2016) A nonparametric hypothesis test for heteroscedasticity. *Journal of Nonparametric Statistics*, 28, 752–767.
18. **Kim, S.** (2015) Hypothesis testing for ARCH models: a multiple quantile regressions approach. *Journal of Time Series Analysis*, 36, 26–38.
19. **Kim, S.**, Zhao, Z. and Shao, X. (2015) Nonparametric functional central limit theorem for time series with application to self-normalized confidence interval. *Journal of Multivariate Analysis*, 133, 277–290.
20. **Kim, S.** and Zhao, Z. (2014) Specification test for Markov models with measurement errors. *Journal of Multivariate Analysis*, 130, 118–133.
21. **Kim, S.** and Zhao, Z. (2013) Unified inference for sparse and dense longitudinal models. *Biometrika*, 100, 203–212.

Submitted (all peer-reviewed, *: Miami Students, **: Students at other institutes):

1. **Bhatnagar, S., Chang, W., **Kim, S.**, and Wang, Jiali. (2021) Computer Model Calibration with Time Series Data using Deep Learning and Quantile Regression. Revision submitted to *Journal on Uncertainty Quantifications*.
2. Chang, W., **Kim, S.** and Kim, J. (2021) Statistical Inference with Neural Network Imputation for Item Nonresponse. Submitted to *Biometrics*.
3. *Woodbury, G., **Kim, S.** and Maurer, K. (2021) A New Lineup Protocol for Visual Statistical Inference: The Lady Tasting Tea Procedure. Submitted to *The Journal of Data Science and Statistical Visualization*.

In preparation (*: Miami Students, **: Students at other institutes):

1. Cho, H., **Kim, S.**, and Lee, M. Assessing heterogeneous causal effects of a guideline in a randomized clinical trial.
2. Cho, H. and **Kim, S.** Evaluating causal effect of a guideline or policy on dynamic changes in an outcome from a randomized clinical trial.
3. Cho, H. and **Kim, S.** Generalized marginal structural models for time-varying potential outcome in observational studies with a varying time to treatment initiation.
4. *Wang, S., **Kim, S.**, Cho, H. and Chang, W. Predictive Deep Learning longitudinal model.

PRESENTATIONS

1. Joint Statistical Meetings Virtual Conference, August 2021.
2. Joint Statistical Meetings, Denver, CO, August 2019.
3. Department of Epidemiology & Biostatistics, University of California San Francisco, June 2019.
4. Joint Statistical Meetings, Vancouver, Canada, August 2018.
5. Department of Mathematical Sciences, Korea Advanced Institute of Science and Technology, Daejeon, South Korea, June 2018.
6. Joint Statistical Meetings, Baltimore, MD, August 2017.
7. Young Statistician's Meetings, Seoul, South Korea, June 2017.
8. Joint Statistical Meetings, Chicago, IL, August 2016.
9. Department of Statistics, Korea University, Seoul, South Korea, June 2016.
10. Joint Statistical Meetings, Seattle, WA, August 2015.
11. Southwest Ohio Korean-American Scientists and Engineers Association (KSEA) Annual Conference, University of Cincinnati, May 2015.
12. Joint Statistical Meetings, Boston, MA, August 2014.
13. Summer Undergraduate Mathematical Sciences Research Institute, Miami University, July 2014.
14. The Korean Statistical Society Seminar, Daejeon, South Korea, May 2014.

15. Department of Mathematical Sciences, University of Cincinnati, March 2014.
16. Southwest Ohio KSEA Kickoff Meeting, Cincinnati Children's Hospital Medical Center, November 2013.
17. Joint Statistical Meetings, San Diego, CA, August 2012.
18. Joint Statistical Meetings, Miami, FL, July 2011.

TEACHING
EXPERIENCE

Pennsylvania State University:

1. STAT 401 Experimental Methods.
2. STAT 418 Intro to Probability and Stochastic Processes for Engineering.
3. STAT 463 Applied Time Series Analysis.

Miami University:

1. STA 301 Applied Statistics in class and online
2. STA 333 Intro to Nonparametric Statistics
3. STA 363 Intro to Statistical Modeling
4. STA 4/501 Probability
5. STA 4/563 Regression analysis
6. STA 4/583 Analysis of Forecasting Systems (Times Series Analysis)
7. STA 650 Topic in Statistics
8. STA 664 Theory Of Statistics I
9. STA 665 Theory Of Statistics II

Teaching Evaluation Scores at Miami University:

The teaching effectiveness scores were rated on a scale of 0 (strongly disagree) to 4 (strongly agree). "Mean score" column reports the mean score with the percentage of students in parentheses who rate positively (3 or 4). For comparison, the department mean score and university mean score are also reported. "Size" column provides information on the number of students in the class (the number of students who respond the evaluation).

Semester	Course	Mean score	Department mean	University mean	Size
Fall 2013	STA 4/501	2.77(63.6)	3.41	3.22	26(22)
Spring 2014	STA 301 A	3.03(90.3)	3.33	3.24	36(31)
	STA 301 B	3.23(88.2)	3.33	3.24	38(34)
	STA 4/501	3.23(82.4)	3.33	3.24	17(17)
Fall 2014	STA 4/501 B	3.60(90.0)	3.32	3.23	22(20)
	STA 4/501 C	3.79(100)	3.32	3.23	16(14)
	STA 4/583	3.72(94.4)	3.32	3.23	24(18)
Spring 2015	STA 301	3.29(82.4)	3.36	3.26	40(34)
	STA 363	3.48(95.2)	3.36	3.26	25(21)
Summer 2015	STA 301	3.71(100)	3.47	3.41	20(17)
Fall 2015	STA 301	3.51(91.2)	3.20	3.30	45(37)
	STA 4/583	3.63(94.7)	3.20	3.30	24(19)
Spring 2016	STA 401 A	3.43(85.7)	3.28	3.29	36(35)
	STA 401 B	3.52(97.0)	3.28	3.29	37(33)
Spring 2017	STA 4/563 A	3.62(100)	3.03	3.27	29(26)
	STA 4/563 B	3.54(100)	3.03	3.27	26(24)
Summer 2017	STA 301 Online	3.63(100)	3.47	3.33	20(16)
Fall 2017	STA 664	3.44(94.4)	2.86	3.29	19(18)
	STA 4/583	3.59(95.5)	2.86	3.29	25(22)
Spring 2018	STA 363 A	3.44(96)	3.20	3.31	27(25)
	STA 363 B	3.40(88)	3.20	3.31	30(25)
	STA 4/583	3.68(96)	3.20	3.31	31(26)
Fall 2018	STA 333 A	3.52(88)	3.52	3.34	26(23)
	STA 664	3.57(100)	3.12	3.34	21(21)
Spring 2019	STA 4/584 A	3.29(91)	3.27	3.34	46(42)
	STA 665	3.67(90)	3.27	3.34	20(18)

SERVICE TO THE PROFESSION

1. ASA Committee on Career Development, 2018–present.
2. Inter-society Task force of the ASA to support the professional development of Asian statisticians initiated by ASA President, Dr. Barry Nussbaum, 2016-2018.
3. Committee of National Math and Science Competition offered by the KSEA, 2016-2017.

SERVICE TO THE DEPARTMENT

1. Director of Graduate Studies, Fall 2019-present.
2. Graduate assistants policy committee, Summer 2019.
3. Co-Director of Graduate Studies, Fall 2017-Summer 2019.
4. Colloquium organizer, Fall 2017-Summer 2019.
5. Search Committee, 2016 and 2017
6. Graduate Committee, Fall 2013-present.
7. Department picnic organizer, Fall 2013-present.

JOURNAL REFEREE

Journal of the American Statistical Association Journal of the Royal Statistical Society Series B, Journal of Multivariate Analysis, Biometrics, Statistics in Medicine, Computational Statistics & Data Analysis, Stat, Journal of Statistical Computation and Simulation, Statistical Analysis and Data Mining, Journal of the Korean Statistical Society, Communications for Statistical Applications and Methods, Advances and Applications in Statistics and The open Statistics & Probability Journal.

CONSULTING EXPERIENCE

Statistical Consulting Center, Pennsylvania State University, August 2010–May 2011.