Seonjin Kim

CONTACT
INFORMATION

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Department of Statistics
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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

Assistant Professor of Statistics, Miami University, August 2013–present.

RESEARCH
INTERESTS

Longitudinal models
Time series
Nonparametric methods
Quantile regression

HONORS AND
AWARDS

Korean International Statistical Society Career Development Award 2015.

Nonparametric Statistics Student Paper Award, American Statistical Association, Joint Statistical Meetings 2012.

Department Scholarship, KAIST, 2003–2006.

PUBLICATIONS

Accepted (all peer-reviewed):

1. Cho, H. and **Kim, S.** (2017) Model specification test in a semiparametric regression model for longitudinal data. *Journal of Multivariate Analysis*, To appear.

2. Zambom, Z.A. and **Kim, S.** (2017) Lag selection and model validation in nonparametric autoregressive conditional heteroscedastic models. *Journal of Statistical Planning and Inference*, To appear.

3. Cho, H., **Kim, S.** and Kim M. (2017) Marginal quantile regression accounting for association across multiple quantiles. *Journal of Multivariate Analysis*, *Journal of Multivariate Analysis*, 155, 334–343.

4. **Kim, S** and Zambom, Z.A. (2016) A nonparametric hypothesis test for heteroscedasticity. *Journal of Nonparametric Statistics*, 28, 752-767.

5. **Kim, S.** (2015) Hypothesis testing for ARCH models: a multiple quantile regressions approach. *Journal of Time Series Analysis*, 36, 26-38.

6. **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.

7. **Kim, S.** and Zhao, Z. (2014) Specification test for Markov models with measurement errors. *Journal of Multivariate Analysis*, 130, 118–133.

8. **Kim, S.** and Zhao, Z. (2013) Unified inference for sparse and dense longitudinal models. *Biometrika*, 100, 203–212.

Submitted (all peer-reviewed; *: Students):

1. Zambom, Z.A and **Kim, S.** (2017) A nonparametric hypothesis test for heteroscedasticity in multiple regression models. Revision invited to *Canadian Journal of Statistics*.

2. **Kim, S.**, Cho, H. and Zhang X. (2017) Initial severity-dependent longitudinal model in application to a randomized controlled trial of women with depression. Submitted to *Journal of the American Statistical Association*

3. **Kim, S.**, Zhao, Z and Xiao, Z. (2017) Efficient estimation for time-varying coefficient longitudinal models. Submitted to *Journal of Multivariate Analysis*.

4. **Kim, S.** and Cho, H. (2017) Partially linear quantile regression for longitudinal studies. Submitted to *Electronic Journal of Statistics*.

5. *Palma, D, **Kim, S.** and Miljkovic, T. (2017) Predictive Modeling of Obesity Prevalence for the United States Population. Submitted to *North American Actuarial Journal*.

In preparation:

1. **Kim, S.**, Zhao, Z. and Xu, Z. Locally stationary quantile Regression for inflation and interest rates.

2. **Kim, S.**, Cho, H. and Wu, C. Nonparametric estimation of bivariate rank-tracking probabilities in longitudinal studies.

3. **Kim, S.** and Zambom, Z.A. Nonparametric stationarity test for time series..

4. McLaughlin, S. and **Kim, S.** Healthy aging over time among midlife and older Americans: the impact of educational attainment on trajectories and determinants of healthy aging.

PRESENTATIONS

1. Joint Statistical Meetings, Chicago, IL, August 2016.

2. Department of Statistics, Korea University, Seoul, South Korea, June 2016.

3. Joint Statistical Meetings, Seattle, WA, August 2015.

4. Southwest Ohio Korean-American Scientists and Engineers Association (KSEA) Annual Conference, University of Cincinnati, May 2015.

5. Joint Statistical Meetings, Boston, MA, August 2014.

6. Summer Undergraduate Mathematical Sciences Research Institute, Miami University, July 2014.

7. The Korean Statistical Society Seminar, Daejeon, South Korea, May 2014.

8. Department of Mathematical Sciences, University of Cincinnati, March 2014.

9. Southwest Ohio KSEA Kickoff Meeting, Cincinnati Children's Hospital Medical Center, November 2013.

10. Joint Statistical Meetings, San Diego, CA, August 2012.

11. Joint Statistical Meetings, Miami, FL, July 2011.

GRANTS

1. NIH Small Grant Program (R03). Submitted October 2016. $108,375.

2. NIH R21/R33 proposal (Statistic counselor) with R. Applebaum (Sociology & Gerontology), S. McLaughlin (Sociology & Gerontology), E. Lokon (Sociology & Gerontology), P. Cummins (Sociology & Gerontology), C. Connell (Health Behavior and Health Education, University of Michigan). $2,440,000. Submitted Feb 2017.

3. Summer research grant for new tenure-track faculty, awarded for summer 2015. Miami University, College of Arts and Sciences. $5000.

4. Faculty research grant, awarded for summer 2014. Miami University, Committee on Faculty Research. $6200.

5. Travel grant to attend the professional development workshop 2014, Chicago, IL, KSEA.

SERVICE TO THE PROFESSION

1. Committee member of National Math and Science Competition offered by the KSEA, 2016 and 2017.

2. Inter-society Task force of the American Statistical Association to support the professional development of Asian statisticians.