

HYUNKEUN RYAN CHO

CONTACT INFORMATION	Department of Biostatistics College of Public Health University of Iowa 145 N. Riverside Drive Iowa City, IA 52242 USA	Phone: +1 (319) 384-1581 Email: hyunkeun-cho@uiowa.edu Homepage: https://www.public-health.uiowa.edu
EDUCATION	Ph.D. in Statistics, University of Illinois at Urbana-Champaign 2013 M.S. in Statistics, University of Illinois at Urbana-Champaign 2011 M.S. in Applied Math & Statistics, Stony Brook University 2008 B.A. in Mathematics, Stony Brook University 2007	
EMPLOYMENT	Associate Professor, Department of Biostatistics at U of Iowa since 7/2021 Assistant Professor, Department of Biostatistics at U of Iowa 7/2017 - 6/2021 Assistant Professor, Department of Statistics at Western Michigan Univ 8/2013 - 6/2017	
PROFESSIONAL EXPERIENCE	Biostatistician, Center for Access & Delivery Research and Evaluation since 2/2020 Affiliated Faculty, Center for Advancing Multimorbidity Science since 2/2019 Affiliated Faculty, Clinical Trials Statistical and Data Management Center since 2/2018 Director, Data Science Program at Western Michigan Univ 9/2014 - 7/2017 Statistical Analyst, Office of Provost at Western Michigan Univ 5/2014 - 12/2016 Graduate Research Assistant, Department of Statistics at U of Illinois 8/2010 - 7/2013 Consultant, Illinois Statistical Office at U of Illinois 8/2010 - 7/2013 Intern, Korea Institute of Finance 12/2005 - 1/2006	
AWARD AND HONOR	Carver Trust Associate Professor Advancement Award 2022 Junior Faculty Research Opportunity Award 2018, 2019 NISS Writing Workshop Travel Grant Award 2018 New Faculty Research Award 2017 Norton Prize Finalist for Exceptional Doctoral Thesis 2013 Graduate College Conference Travel Award 2013 Degree Honor ‘Magna Cum Laude’ 2007	
RESEARCH INTERESTS	Longitudinal analysis; Causal inference; Clustering; Nonparametric modeling; Quantile regression; Risk-predictive modeling; Precision medicine; Preventive medicine; Clinical trials.	
PUBLICATIONS <i>(Note: † denotes PhD advisee.)</i>	Hadlandsmyth, K., Burgess, D.J., Leparski, R.F., Odom, A.S., Campbell, M.J., Obrecht, A.A., Adamowicz, J.L., Cho, H. , Steffensmeier, K.S., Johnson, N.L., Richards, C.C., VanderWeg, M.W., Lund, B.C., Yoon, P. and Mosher, H.J. (2022). The perioperative pain self-management (PePS) randomized controlled trial protocol: preventing chronic post-surgical pain and prolonged opioid use, <i>Contemporary Clinical Trials</i> , in press. Picillo, M., LaFontant, D-E., Bressman, S., Caspell-Garcia, C., Coffey, C., Cho, H. , Burghardt, E., Dahodwala, N., Sanders-Pullman, R., Tanner, C. and Amara, A. W. (2022). Sex-related longitudinal change of motor, non-motor, and biological features in early Parkinson disease, <i>Journal of Parkinson’s Disease</i> , in press. Ryckman, K.K., Ramesh, A., Cho, H. , Oltman, S.P., Rogers, E.E., Dagle, J.M. and Jelliffe-Pawlowskic, L. L. (2022). Evaluation of heparinized syringes for measuring newborn metabolites in neonates with a central arterial line, <i>Clinical Biochemistry</i> 99, 78-81. Kim, S., Cho, H. and Kim, M.O. (2021). Predictive generalized varying-coefficient longitudinal model, <i>Statistics in Medicine</i> 40, 6243-6259. Kim, S., Cho, H. and Wu, C. (2021). Risk-predictive probabilities and dynamic non-parametric conditional quantile models for longitudinal analysis, <i>Statistica Sinica</i> 31, 1415-1439.	

- Espay, A. J., Lafontant, D-E., Poston, K. L., Caspell-Garcia, C., Marsili, L., **Cho, H.**, McDaniel, C., Kim, N., Coffey, C., Mahajan, A., Ezzat, K. and Sturchio, A. (2021). Low soluble amyloid- β 42 is associated with smaller brain volume in Parkinson's disease, *Parkinsonism & Related Disorders* 92, 15-21.
- Yamanashi, T., Malicoat, J.R., Steffen, K.T., Zarei, K., Li, R., Purnell, B.S., Najafi, A., Saito, K., Singh, U., Toth, B.A., Lee, S., Dailey, M.E., Cui, H., Kaneko, K., **Cho, H.**, Iwata, M., Buchanan, G.F. and Shinozaki, G. (2021). Bispectral EEG (BSEEG) quantifying neuro-inflammation in mice induced by systemic inflammation: a potential mouse model of delirium, *Journal of Psychiatric Research* 133, 205-211.
- Saito, T Malicoat, J.R., Leyden, L.R., Williams, J.C., Jellison, S.S., Long, H., Hellman, M.M., Crutchley, K.J., Anderson, Z.E.M., Lo, D., Modukuri, M.V., Schacher, C.J., Yoshino, A., Toda, H., Shinozaki, E., **Cho, H.**, Lee, S. and Shinozaki, G. (2021). Mortality prediction by bispectral electroencephalography among 502 patients: its role in dementia, *Brain Communications* 3, fcab037.
- Jasper, E.A.[‡], **Cho, H.**, Breheny, P.J., Bao, W., Dagle, J.M. and Ryckman, K.K. (2021). Perinatal determinants of growth trajectories in children born preterm, *PLoS ONE* 16, e0245387.
- Chasco, E.E, Hoth, A.B., **Cho, H.**, Shafer, C., Siegler, A.J. and Ohl, M.E. (2021). Mixed-methods evaluation of the incorporation of home specimen self-collection kits for laboratory testing in a telehealth program for delivering HIV pre-exposure prophylaxis, *AIDS and Behavior* 25, 2463-2482.
- Yamanashi, T., Marra, P., Crutchley, K., Wahba, N., Malicoat, J., Sullivan, E., Akers, C., Nicholson, C., Herrmann, F., Karam, M., Noiseux, N., Kaneko, K., Shinozaki, E., Iwata, M., **Cho, H.**, Lee, S. and Shinozaki, G. (2021). Mortality among patients with sepsis associated with a bispectral electroencephalography (BSEEG) score, *Scientific Reports* 11, 14211.
- Chahine, L.M., Brumm, M., Caspell-Garcia, C., Oertel, W., Mollenhauer, B., Amara, A., Fernandez-Arcos, A., Tolosa, E., Simonet, C., Hognl, B., Videnovic, A., Hutten, S., Tanner, C., Weintraub, D., Burghardt, E., Coffey, C., **Cho, H.**, Kiebertz, K., Poston, K., Merchant, K., Galasko, D., Foroud, T., Siderowf, A., Marek, K., Simuni, T. and Iranzo, A. (2021). Dopamine transporter imaging predicts clinically-defined α -synucleinopathy in REM sleep behavior disorder, *Annals of Clinical and Translational Neurology* 8, 201-212.
- Cho, H.**, Kim, S. and Lee, M. (2020). Adjusting a subject-specific time of event in longitudinal studies, *Statistical Methods in Medical Research* 29, 1787-1798.
- Saito, T., Braun, P. R., Daniel, S., Jellison, S. S., Hellman, M., Shinozaki, E., Lee, S., **Cho, H.**, Yoshino, A., Toda, H. and Shinozaki, G. (2020). The relationship between DNA methylation in neurotrophic genes and age as evidenced from three independent cohorts: Differences by delirium status, *Neurobiology of Aging* 94, 227-235.
- Saito, T., Toda, H., Duncan, G., Jellison, S., Yu, T., Klisares, M., Daniel, S., Andreasen, A., Leyden, L., Hellman, M., Shinozaki, E., Lee, S., Yoshino, A., **Cho, H.** and Shinozaki, G. (2020). Epigenetics of neuroinflammation: immune response, inflammatory response and cholinergic synaptic involvement evidenced by genome-wide DNA methylation analysis of delirious inpatients. *Journal of Psychiatric Research* 129, 61-65.
- Simuni, T., Uribe, L., **Cho, H.**, Caspell-Garcia, C., Coffey, C., Siderowf, A., Trojanowski, J.Q., Shaw, L.M., Seibyl, J., Singleton, A., Toga, A.W., Galasko, D., Foroud, T., Tosun, D., Poston, K., Weintraub, D., Mollenhauer, B., Tanner, C.M., Kiebertz, K., Chahine, L.M., Reimer, A., Hutten, S.J., Bressman, S. and Marek, K. (2020). Clinical and DAT imaging characteristics of non-manifest LRRK2 and GBA mutation carriers in the Parkinson's Progression Markers Initiative (PPMI): A cross sectional study, *Lancet Neurology* 19, 71-80.

- Weintraub, D., Caspell-Garcia, C., Simuni, T., **Cho, H.**, Coffey, C., Aarsland, D., Alcalay, R.N., Barrett, M.J., Chahine, L.M., Eberling, J., Espay, A.J., Hamilton, J., Hawkins, K., Leverenz, J., Litvan, I., Richard, I., Rosenthal, L., Siderowf, A. and York, M. (2020). Neuropsychiatric symptoms and cognitive abilities over the initial quinquennium of Parkinson disease, *Annals of Clinical and Translational Neurology* 7, 449-461.
- Saito, T., Shinozaki, G., Koga, M., Tanichi, M., Takeshita, S., Nakagawa, R., Nagamine, M., **Cho, H.**, Morimoto, Y., Kobayashi, Y., Yoshino, A. and Toda, H. (2020). Effect of interaction between a specific subtype of child abuse and the FKBP5 rs1360780 SNP on DNA methylation among patients with bipolar disorder, *Journal of Affective Disorders* 272, 417-422.
- Niu, X.[‡] and **Cho, H.** (2019). Adjusting for baseline information in comparing the efficacy of treatments using bivariate varying-coefficient models, *Journal of Nonparametric Statistics* 31, 680-694.
- Niu, X.[‡] and **Cho, H.** (2019). Efficient regression modeling for correlated and overdispersed count data, *Communications in Statistics-Theory and Methods* 48, 6005-6018.
- Niu, X.[‡] and **Cho, H.** (2019). Simultaneous estimation and inference for multiple response variables, *Communications in Statistics-Theory and Methods* 48, 2734-2747.
- 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.
- Andrews, N.[‡] and **Cho, H.** (2019). Generalized growth curve models for longitudinal data in application to a randomized clinical trial, *Journal of the Korean Statistical Society* 48, 40-49.
- Shinozaki, G., Bormann, N. L., Chan, A. C., Zarei, K., Sparr, N. A., Klisares, M., Jellison, S. S., Heinzman, J., Dahlstrom, E. B., Duncan, G. N., Coon, N. A., Gaul, L., Robles, J., Yu, T., Wansek, R., Ando, T., Wong, T., Chicchelly, H., Cramer, E., Wimmel, C., Chronis, T., Sabbagh, S., Yuki, K., Weckmann, M., Yamada, T., Karam, M., Noiseux, N., Shinozaki, E., **Cho, H.**, Lee, S. and Cromwell, J. W. (2019). Identification of patients with high mortality risk and prediction of outcomes in delirium by bispectral EEG, *Journal of Clinical Psychiatry* 80, 19m12749.
- Cho, H.** (2018). Statistical inference in a growth curve quantile regression model for longitudinal data, *Biometrics* 74, 855-862.
- Andrews, N.[‡] and **Cho, H.** (2018). Validating effectiveness of subgroup identification for longitudinal data, *Statistics in Medicine* 37, 98-106.
- Kim, S. and **Cho, H.** (2018). Efficient estimation in the partially linear quantile regression model for longitudinal data, *Electronic Journal of Statistics* 12, 824-850.
- Shinozaki, G., Braun, P. R., Hing, B. W., Ratanatharathorn, A. D., Klisares, M., Heinzman, J., Nagahama, Y., Close, L., Sabbagh, S., Dlouhy, B. J., Howard, M., Kawasaki, H. and **Cho, H.** (2018). Epigenetics of delirium: potential role of DNA methylation change on cytokine genes in glia and blood along with aging, *Frontiers in Aging Neuroscience* 10, 1-10.
- Cho, H.** and Kim, S. (2017). Model specification test in semiparametric regression models for longitudinal data, *Journal of Multivariate Analysis* 160, 105-116.
- Cho, H.**, Wang, P. and Qu, A. (2017). Personalized treatment for longitudinal data using unspecified random-effects model, *Statistica Sinica* 27, 187-205.
- Cho, H.**, Kim, S. and Kim, M.O. (2017). Multiple quantile regression analysis of longitudinal data: Heteroscedasticity and efficient estimation, *Journal of Multivariate Analysis* 155, 334-343.
- Cho, H.**, Hong, H.G. and Kim, M.O. (2016). Efficient quantile marginal regression for longitudinal data with dropouts, *Biostatistics* 17, 561-575.

- Cho, H.** (2016). The analysis of multivariate longitudinal data using multivariate marginal models, *Journal of Multivariate Analysis* 143, 481-491.
- Cho, H.**, Son, S. J., Kim, S. and Park, J. (2016). A randomized comparison of medication and cognitive behavioral therapy for treating depression among low-income young minority women, *Medical Science Monitor* 22, 4947-4953.
- Cho, H.** and Qu, A. (2015). Efficient estimation for longitudinal data by combining large-dimensional moment conditions, *Electronic Journal of Statistics* 9, 1315-1334.
- Park, J., Lawrence, C.B. and **Cho, H.** (2015). A discursive assessment of narrative journalism using coh-matrix and principal component analysis, *Journal of the 21st Century Association of English Language and Literature* 28, 383-400.
- Dev, D., McBride, B., Speirs, K., Donovan, S. and **Cho, H.** (2014). Predictors of head start and child-care providers' healthful and controlling feeding practices with children aged 2 to 5 years, *Journal of the Academy of Nutrition and Dietetics* 114, 1396-1403.
- Dev, D., McBride, B., Fiese, B., Jones, B. and **Cho, H.** (2013). Risk factors for overweight/obesity in preschool children: an ecological approach, *Childhood Obesity* 9, 399-408.
- Cho, H.** and Qu, A. (2013). Model selection for correlated data with diverging number of parameters, *Statistica Sinica* 23, 901-927.

BOOK
REVIEW

- Cho, H.** (2015). Growth curve analysis and visualization using R, *The American Statistician* 69, 425-434.

GRANTS

Active Grants

- US Department of Veterans Affairs since 1/2021
Title: Veterans Affairs Interagency Personnel Agreement (IPA) - Veteran's Rural Health Resource Center Project
Role: Principal Investigator
Effort: 10%
- Veterans Affairs Medical Research Foundation since 3/2020
Title: Memorandum of Understanding (MOU) Veterans Affairs Center for Access & Delivery Research
Role: Principal Investigator
Effort: 10%
- The Michael J. Fox Foundation for Parkinson's Research since 2/2018
Title: Parkinson's Progression Markers Initiative Statistics Core
Role: Co-Investigator (Coffey, PI)
Effort: 20%
- R01 AG077436 US Department of Health & Human Services, NIH since 6/2022
Title: Emergency preparedness and support of caregivers of persons with dementia: The Disaster PrepWise study
Role: Co-Investigator (Ashida, PI)
Effort: 15%
- R01 HD102381 US Department of Health & Human Services, NIH since 8/2020
Title: Targeted metabolic profiling to predict major neonatal morbidity in very preterm newborns
Role: Co-Investigator (Ryckman, PI)
Effort: 10%
- Carver Trust Associate Professor Advancement Award, University of Iowa since 4/2022
Title: Causal mediation and network analyses in randomized clinical trials
Role: Principal Investigator
Total amount of award:: \$9,930

Completed Grants

- R25 HL147231 National Heart, Lung, and Blood Institute 3/2019 - 6/2021
Title: Iowa Summer Institute in Biostatistics
Role: Co-Investigator (Zamba, PI)
Effort: 6%
- R21 AB056716 National Institute of Aging 7/2018 - 6/2021
Title: Building a bridge (between clinical and community care): post-diagnosis support of persons with dementia and their family
Role: Co-Investigator (Ashida, PI)
Effort: 5%
- U01 NS077352 National Institute of Neurological Disorders and Stroke 1/2018 - 9/2020
Title: Network for Excellence in Neuroscience Clinical Trials-Data Coordinating Center
Role: Co-Investigator (Coffey, PI)
Effort: 10%
- Michigan Department of Transportation 1/2016 - 12/2017
Title: Evaluating the impacts of speed limit changes on identified case studies
Role: Co-Principal Investigator (Kwigizile, PI)
Effort: 8%
- Transportation Research Center 5/2014 - 12/2015
Title: Big data analytics to aid developing livable communities
Role: Co-Investigator (Yang, PI)
Effort: 5%
- Junior Faculty Research Opportunity Award, University of Iowa 2019
Title: Support to develop my academic career in longitudinal studies
Role: Principal Investigator
Total amount of award:: \$4,732
- New Faculty Research Award, University of Iowa 1/2018 - 8/2019
Title: Decision support tool: Initial severity-dependent longitudinal model
Role: Principal Investigator
Total amount of award:: \$8,326
- Junior Faculty Research Opportunity Award, The University of Iowa 2018
Title: Decision support tool in randomized clinical trials
Role: Principal Investigator
Total amount of award: \$4,244

TEACHING EXPERIENCE

Graduate courses

- BIOS 7310 Longitudinal Data Analysis Spring 2021, 2013
- BIOS 6310 Introductory Longitudinal Data Analysis Fall 2017 - 2022
- BIOS 6210 Applied Survival Analysis Spring 2019, 2022
- BIOS 5730 Biostatistical Methods Categorical Data Spring 2020
- STAT 6810 Survival Data Analysis Spring 2014, 2016
- STAT 6610 Multivariate Statistical Analysis Spring 2015, 2017
- STAT 5850 Applied Data Mining Fall 2015, 2016

Undergraduate courses

- STAT 3660 Data Analysis for Biosciences Summer 2014
- STAT 3640 Foundations of Data Analysis Fall 2013, Spring 2014
- STAT 2600 Data Analysis using R Fall 2014 - Summer 2017
- STAT 200 Statistical Analysis Fall 2011, 2012
- MAT 126 Calculus B Fall 2007

ADVISING

Doctoral Student Supervision

- David-Erick Lafontant Ph.D. in Biostatistics, expected 2024
- Daren Kuwaye Ph.D. in Biostatistics, expected 2023
- Zhuangzhuang Liu Ph.D. in Biostatistics, expected 2022
- Xiaomeng Niu Ph.D. in Statistics, 5/2018
Thesis title: Statistical Models for Correlated Data
Current position: Biostatistician at Allergan
- Nichole R. Andrews Ph.D. in Statistics, 5/2017
Thesis title: Subgroup Analysis and Growth Curve Models for Longitudinal Data
Current position: Faculty Specialist in Department of Statistics at Western Michigan

Master Student Preceptorship Supervision

- Leianne Pallagao M.S. in Biostatistics, expected 2022
- Ris Kallem M.S. in Biostatistics, expected 2022
- Zhuangzhuang Liu Ph.D. in Biostatistics, expected 2022
- Daren Kuwaye M.S. in Biostatistics, 5/2019

Ph.D. Thesis Committee Member

- Tao Xu Ph.D. in Epidemiology, expected 5/2024
- Abhismitha Ramesh Ph.D. in Epidemiology, expected 5/2024
- Amy Ogilvie Ph.D. in Epidemiology, expected 5/2023
- Daniel Corry Ph.D. in Epidemiology, expected 5/2023
- Javier Flores Ph.D. in Biostatistics, 5/2021
- Clarissa Shaw Ph.D. in Nursing, 5/2021
- Ashamsa Aryal Ph.D. in Occupational & Environmental Health (OEH), 12/2020
- Elizabeth Jasper Ph.D. in Epidemiology, 12/2019
- Yang Pan Ph.D. in Marketing, 8/2019
- Bezawit Teshome Agiro Ph.D. in Economics, 5/2018
- Ama Agyeiwaa Abrokwah Ph.D. in Economics, 8/2017

Director of Data Science Major & Minor Programs 9/2014 - 7/2017

- Coordinate programs and supervise undergraduate students at Western Michigan

DataFest Team Advisor 9/2016 - 4/2017

- Forster students in the Data Science program and organize a team
- Win the Grand Prize at DataFest, Chicago, 4/2017

UNIVERSITY
SERVICE

- Internal peer review committee 2021 - 2022
- Ph.D. comprehensive exam committee in Epidemiology 2021 - 2022
- Ph.D. comprehensive exam committee in Biostatistics 2020 - 2022
- Ph.D. comprehensive exam review committee 2019 - 2022
- Admissions and student recruitment committee 2018 - 2022
- Student awards committee 2018 - 2022
- M.S. core exam committee 2018 - 2021
- Ph.D. comprehensive exam committee in OEH 2021 - 2022
- Woolson lecture committee 2018 - 2019
- Open-rank faculty search committee 2017 - 2019
- Ph.D. and M.S. curriculum committee 2017 - 2018
- Computing development committee 2015 - 2017
- Program review and development committee 2014 - 2017
- Statistics colloquium committee 2013 - 2017
- Ph.D. comprehensive and qualifying exam committee 2015 - 2017
- Junior faculty search committee 2014 - 2016
- Chair appointment executive committee 2015

PROFESSIONAL
SERVICE

Associate Editor

- Communications for Statistical Applications and Methods since 2020
- Program Chair 2/2016
- Great Lakes International Symposium: Interdisciplinary Research in Data Science
- Organizer for Invited Session
- New horizons in longitudinal studies, *EcoSta*, Kyoto 6/2022
- Recent advancement in complex data, *WNAR meeting*, Anchorage, Ak 6/2020
- Recent advances in statistical modeling for multivariate/correlated/time-varying longitudinal data, *Joint Statistical Meetings*, Denver, Co 7/2019
- Statistical methods for time-varying/stratified correlated data analysis, *WNAR meeting*, Portland, OR 6/2019
- Modern developments in statistical analysis, *Korean Statistical Society Conference*, Seoul, Korea 5/2017
- Session Chair
- Statistical methods for time-varying/stratified correlated data analysis, *WNAR meeting*, Portland, OR 6/2019
- Modern Topics in applied statistics, *Korean Statistical Society Conference*, Daejeon, Korea 11/2016
- Rank-Based & Nonparametric Procedures, *International Conference on Robust Rank Based and Nonparametric Methods*, Kalamazoo, MI 4/2015
- Data Safety Monitoring Board Member of R01 grants since 2019
- Review of NSF Proposals since 2018
- Journals Refereed
- Statistics in Medicine (7)
- Statistica Sinica (5)
- Journal of the American Statistical Association (4)
- Electronic Journal of Statistics (4)
- Journal of the American Medical Association (3)
- Biometrics (2)
- Computational Statistics and Data Analysis (2)
- Journal of Biopharmaceutical Statistics (2)
- Journal of Multivariate Analysis (2)
- Journal of the Korean Statistical Society (2)
- Journal of Applied Statistics (2)
- Statistics and Probability Letters (1)
- Multivariate Behavioral Research (1)
- Annals of the Institute of Statistical Mathematics (1)
- Communications in Statistics - Simulation and Computation (1)
- International Journal of Statistics (1)
- Statistical Science (1)
- Statistical Methods and Applications (1)
- Science China Mathematics (1)
- Precision Clinical Medicine (1)
- BMJ Open (1)
- Liver Transplantation (1)
- Medical Science Monitor (1)
- BMJ Open (1)
- Plus One (1)

Invited Talks

- Modeling the population mean outcome trajectory in an observational study with a guideline-based intervention, *Indiana University-Purdue University Indianapolis*, Indianapolis, IN, 1/2022.
- Modeling the population mean outcome trajectory in an observational study with a guideline-based intervention, *University of California at San Francisco*, San Francisco, CA, 11/2021.
- Evaluating causal effects of timing of treatment in marginal structural models for longitudinal data, *Econometrics and Statistics*, Hong Kong, 6/2021.
- Evaluating causal effects of timing of intervention in observational studies, *Korean Statistical Society Conference*, Seoul, Korea, 12/2020.
- Evaluating the population mean trajectory of an outcome in longitudinal studies with a subject-specific time of an event, *University of Nebraska Medical Center*, Omaha, NE, 10/2019.
- Statistical inference in a growth curve quantile regression model, *Joint Statistical Meetings*, Denver, CO, 8/2019.
- Uses and new developments of quantile regression analysis of longitudinal data, *Rush University*, Chicago, IL, 6/2019.
- Risk predictive modeling, *Statistics Korea*, Daejeon, Korea, 5/2019.
- Various statistical models for longitudinal data, *Yonsei University*, Wonju, Korea, 5/2019.
- Risk predictive modeling with longitudinal data, *Korean Biostatistics Meeting*, Seoul, Korea, 5/2019.
- Statistical methods with varying coefficient models in biomedical studies, *Yonsei University*, Seoul, Korea, 7/2018.
- Statistical methods with varying coefficient models in longitudinal studies, *University of Iowa*, Iowa City, IA, 3/2018.
- Statistical methods with varying coefficient models in longitudinal studies, *University of Illinois*, Champaign, IL, 3/2018.
- Various statistical models for longitudinal data with application to a randomized controlled trial, *University of Iowa*, Iowa City, IA, 2/2018.
- Statistical inference in a growth curve quantile regression model for longitudinal data, *University of Iowa*, Iowa City, IA, 10/2017.
- Statistical inference in a growth curve quantile regression model for longitudinal data, *Kansas State University*, Mahattan, KS, 10/2017.
- Growth curve quantile regression model for longitudinal data, *Yonsei University*, Seoul, Korea, 6/2017.
- Growth curve quantile regression model for longitudinal data, *Statistics Korea*, Daejeon, Korea, 6/2017.
- Growth curve quantile regression model for longitudinal data, *Korea University*, Seoul, Korea, 5/2017.
- Various statistical models for longitudinal data with application to a randomized controlled trial, *Korean Statistical Society Conference*, Seoul, Korea, 5/2017.
- Efficient quantile marginal regression for longitudinal data with dropouts, *San Diego State University*, San Diego, CA, 1/2017.
- Efficient quantile marginal regression for longitudinal data with dropouts, *California State Polytechnic University*, Pomono, CA, 1/2017.

Efficient quantile marginal regression for longitudinal data with dropouts, *University of Iowa*, Iowa City, IA, 1/2017.

Efficient quantile marginal regression for longitudinal data with dropouts, *Sungkyunkwan University*, Seoul, Korea, 11/2016.

Consistent moment selection from high-dimensional moment conditions, *Western Michigan University*, Kalamazoo, MI, 9/2016.

Efficient quantile marginal regression for longitudinal data with dropouts, *ICSA Applied Statistics Symposium*, Atlanta, GA, 6/2016.

Efficient estimation for longitudinal data with multiple responses: application to transportation safety study, *Michigan State University*, East Lansing, MI, 1/2016.

Efficient quantile regression for longitudinal data with dropouts, *Western Michigan University*, Kalamazoo, MI, 1/2016.

Quantile marginal regression for longitudinal data with dropouts, *Michigan State University*, East Lansing, MI, 1/2016.

Quantile regression models for longitudinal data, *Sookmyung Women's University*, Seoul, Korea, 1/2016.

Quantile regression models for longitudinal data, *The University of Suwon*, Hwaseong, Korea, 12/2015.

Weighted varying-coefficient models for longitudinal data, *Western Michigan University*, Kalamazoo, MI, 12/2015.

Efficient estimation for longitudinal data by combining high-dimensional moment conditions, *Joint Statistical Meetings*, Seattle, WA, 8/2015.

Multivariate marginal model for multivariate longitudinal data, *Spring Research Conference*, Cincinnati, OH, 5/2015.

Varying-coefficient modeling for longitudinal data, *Ajou Univeristy*, Suwon, Korea, 12/2014.

Subgroup identification for longitudinal data with unspecified random effects, *Joint Statistical Meetings*, Boston, MA, 8/2014.

Subgroup identification for longitudinal data, *Western Michigan University*, Kalamazoo, MI, 5/2014.

Personalized treatment for longitudinal data, *ENAR meeting*, Baltimore, MD, 3/2014.

Variable selection for longitudinal data with diverging number of parameters, *Korean Statistical Society Conference*, Seoul, Korea, 11/2013.

Big data meets text-mining, *International Conference on Text-mining*, Suwon, Korea, 10/2013.

Model selection for correlated data with diverging number of parameters, *International Workshop on the Perspectives on High-dimensional Data Analysis III*, Vancouver, Canada, 5/2013.

Model selection for correlated data with diverging number of parameters, *University of Missouri*, Saint Louis, MI, 1/2013.

Model selection for correlated data with diverging number of parameters, *Western Michigan University*, Kalamazoo, MI, 1/2013.

Model selection for correlated data with diverging number of parameters, *Marquette University*, Milwaukee, WI, 12/2012.

Consistent moment selection from high-dimensional moment conditions, *Ajou Univeristy*, Suwon, Korea, 11/2012.

Efficient moment selection from high-dimensional moment conditions, *Midwest Statistics Research Colloquium*, Madison, WI, 3/2012.

Conference Presentations

Adjusting a subject-specific timing of event in longitudinal studies, *Joint Statistical Meetings*, Vancouver, Canada, 8/2018.

Statistical methods with varying coefficient models, *Young Statistician's Meeting*, Seoul, Korea, 7/2018.

Statistical inference in a growth curve quantile regression model for longitudinal data, *International Biometrics Conference*, Barcelona, Spain, 7/2018.

Various statistical models for longitudinal data with application to a randomized controlled trial, *Young Statistician's Meeting*, Yangpeong, Korea, 7/2017.

Consistent moment selection from high-dimensional moment conditions, *Joint Statistical Meetings*, San Diego, CA, 8/2012.

Model selection for correlated data with diverging number of parameters, *ENAR meeting*, Miami, FL, 3/2011.

AFFILIATIONS

American Statistical Association
Institute of Mathematical Statistics
International Biometric Society (ENAR)
Korean International Statistical Society
Korean-American Scientists and Engineers Association