Curriculum Vitae

Personal Information

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Education

Ph.D. in Statistics, University of North Carolina at Chapel Hill
M.S. & B.S. in Statistics, Seoul National University

Academic Positions Held

2012 –	Associate Professor, Statistics, University of Georgia
2006 – 2012	Assistant Professor, Statistics, University of Georgia
2001 – 2006	Research and Teaching Assistant, Department of Statistics and Operations Research, University of North Carolina at Chapel Hill

Publications

Ahn, J. and Park, S. H. (1999), Optimal Restrictions on Regression Parameters For Linear Mixture Model, Journal of Korean Statistical Society, 28:325–336.

Robinson III, W. P., Stiffler, A., Rutherford, E. J., Ahn, J., Hurd, H., Baker, C. C., Meyer, A., and Rich, P. B. (2004), Blood Transfusion is an Independent Predictor of Increased Mortality in Nonoperatively Managed Blunt Hepatic and Splenic Injuries, Journal of Trauma-Injury Infection & Critical Care, 58:437—445.

Zhang, H., Ahn, J., Lin, X., and Park, C. (2006), Gene Selection Using Support Vector Machines with Nonconvex Penalty, Bioinformatics, 22:88–95.

Liu, Y., Zhang, H. H., Park, C., and Ahn, J. (2007), Support Vector Machines with Adaptive Lq Penalty, Computational Statistics and Data Analysis, 51:6380–6394.

Ahn, J., Marron, J. S., Muller, K.E. and Chi, Y. -Y. (2007), The High Dimension, Low Sample Size Geometric Representation Holds Under Mild Conditions, Biometrika, 94:760–766.

Marron, J. S., Todd, M. J., and Ahn, J. (2007), Distance Weighted Discrimination, Journal of the American Statistical Association, 102:1267–1271.

Ahn, J. and Marron, J. S. (2010), The Maximal Data Piling Direction for Discrimination, Biometrika, 97:254–259.

Ahn, J. (2010), A Stable Hyperparameter Selection for the Gaussian RBF Kernel for Discrimination, Statistical Analysis and Data Mining, 3:142–148.

Park, C., Lazar, N., Ahn, J., and Sornborger, A. (2010), A Multiscale Analysis of the Temporal and Spatial Characteristics of Resting fMRI Data, Journal of Neuroscience Methods, 193:334–342.

Park, C., Ahn, J., Hendry, M.and Jang, W. (2011), Analysis of long period variable stars with nonparametric tests for trend detection, Journal of the American Statistical Association, 106(495): 832–845.

Park, E., Spiegelman, C. and Ahn, J. (2011), A Nonparametric Approach Based on a Markov like Property for Classification, Chemometrics and Intelligent Laboratory Systems, 108: 87–92.

Ahn, J. and Lee, M. H. (2011), **Discussion** on "Two-Stage Procedures for High-Dimensional Data"by Makoto Aoshima and Kazuyoshi Yata, Sequential Analysis, 30:423–426.

Ahn, J. (2011) **Review** of "Principles and Theory for Data Mining and Machine Learning"by Clarke, Fokoue, and Zhang, Journal of the American Statistical Association, 106: 375–382.

Ahn, J., Lee, M. H., and Yoon, Y. J. (2012), Clustering High Dimension, Low Sample Size Data Using the Maximal Data Piling Distance, Statistica Sinica, 22(2), 443–464

Lee, M. H., Ahn, J. and Jeon, Y. (2012), HDLSS Discrimination with Adaptive Data Piling, Journal of Computational and Graphical Statistics, accepted.

Ahn, J., Peng, M., Park, C., Jeon, Y. (2012), A Resampling Approach for Interval-Valued Data Regression, Statistical Analysis and Data Mining, 5, 336–348.

Research Grants

2008-2011 P.I., High Dimension, Low Sample Size Discrimination, National Science Foundation, DMS-0805758.

2011-2012 P.I., HDLSS Data Analysis for Micro-array Gene Expression Studies, M.G. Michael Research Award, Franklin College of Arts and Sciences, University of Georgia.

2011-2013 P.I., Evaluation of sample sizes used to train microarray classifiers and prognostic predictors, National Institute of Health, 1R21CA152460-01A1.

Supervision of Student Research

Current Ph.D. - Jungae Lee, Sandra Esi Addo

M.S. - Nathan Lekahal, Muliang Peng

Service on Ph.D. Committees

Liang Shi, Computer Science (degree received in May, 2008)

Jennifer Le-Rademacher, Statistics (degree received in December, 2008)

Taniya Mandal, Statistics (degree received in December, 2010)

Cong Feng, Statistics (degree received in August, 2012)

Ashley Askew, Statistics (2010-)

Reviewing Services

Annals of Applied Statistics, The American Statistician, Biometrics, Biometrika, Chemometrics and Intelligent Laboratory Systems, Communications in Statistics Theory and Methods, Computational Statistics, IEEE Transactions SMC, Part B, Journal of the American Statistical Association, Journal of the Royal Statistical Society, Series B, Journal of Biopharmaceutical Statistics, Journal of Statistical Computation and Simulation, Journal of the Korean Statistical Society, Journal of Statistical Planning and Inference, Journal of Machine Learning Research, Journal of Multivariate Analysis, Journal of Nonparametric Statistics, Scandinavian Journal of Statistics, Statistica Sinica, Statistical Analysis and Data Mining, Statistica Neerlandica

Presentations

Maximal Data Piling in Discrimination, Contributed, *Joint Annual Meeting of the Interface and the Classification Society of North America: Clustering and Classification, Washington University, St. Louis, MO, January, 2004*

Bandwidth Selection in Kernel Based Classification, Contributed, *Joint Statistical Meetings, Seattle, WA, August, 2006*

HDLSS Data Analysis, *University of Missouri, Columbia, MO, January, 2006 / University of Georgia, Athens, GA, February, 2006 / University of Michigan, Ann Arbor, MI, February, 2006 / Cornell University, Ithaca, NY, February 2006 / The Ohio State University, Columbus, OH, February, 2006 / Clemson University, Clemson, SC, February, 2006.*

Data Piling and Geometric Representation for HDLSS, *ENAR, Tampa, FL, March, 2006.*

HDLSS Geometric Representation, *Texas A&M University, TX, April, 2007.*

Bandwidth Selection for Kernel-Based Classification, *ICSA Applied Statistics Symposium, Raleigh, NC, June, 2007.*

Maximal Data Piling for Discrimination, *Hankuk University of Foreign Study, South Korea, May, 2008 /Joint Statistical Meetings, Denver, CO, August, 2008.*

Geometry-Based Kernel Selection for Discrimination, *Auburn University, AL, September, 2008.*

HDLSS Clustering with Maximal Data Piling, *Emory University, GA, April, 2009 / New Directions*

in Asymptotic Statistics, Athens, GA, May, 2009 / IMS Asia Pacific Rim Meetings, South Korea, June, 2009 / Joint Statistical Meetings, Washington DC, August, 2009 / Colorado State Univ, CO, October, 2009/ ENAR, Miami, FL, March, 2011.

Data Piling in HDLSS Data Analysis, *University of Connecticut, CT, February, 2011 / Purdue University, IN, April, 2011 / Yonsei University, Korea, June, 2011.*

A Multivariate Approach to Batch Effects in Microarray, *Mini-Conference on Biological Modeling, Georgia Health Science University, March, 2012 / ENAR Spring Meetings, Washington DC, April, 2012*

HDLSS Discrimination with Adaptive Data Piling, *International Workshop on the Perspectives on High-dimensional Data Analysis II, CRM, Universite de Montreal May 30 - June 1st, 2012*

A Resampling Approach for Interval-Valued Data Regression, *Joint Statistical Meetings, San Diego, CA, July, 2012*